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# SMARTSHOP

## SHOP SMART WHEREVER YOU ARE!



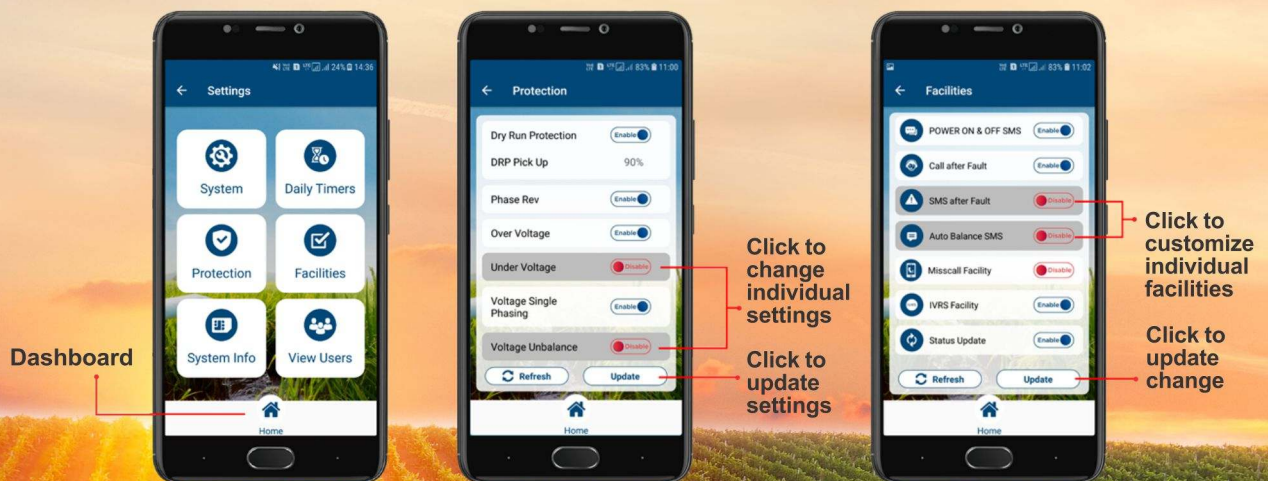
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# LTLK Connect App

Connect Anywhere, Anytime...



One App for  
SMART Controller  
& M-POWER Pro

Convenience of technology at your finger tips for remote operation

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# SMART CONTROLLER

A Complete Solution for  
Smart and Sustainable Farming



AVAILABLE UPTO 75HP



## **THEFT PROTECTION**

of your Controller,  
Pump and Cable



## **COMPLETE PROTECTION**

for all electrical faults  
including dry run



## **REMOTE OPERATION**

manage your Controller  
through Call, SMS &  
Mobile App



Explore the futuristic  
technology at your fingertips  
with LTLK Connect App



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# M-POWER Pro

Operate your pump from anywhere at anytime



## EASE OF OPERATION

Ease and convenience in operating pump from anywhere, anytime through SMS, IVRS and LTLK Connect App.



## SELECTIVE PROTECTION

One can enable or disable each protection as per convenience. One can also change the voltage and current settings as per requirement.



## EASE IN MONITORING

One can easily check important parameters such as pump status (ON/OFF), metering etc. at the comfort LTLK Connect App.



## CONVENIENCE IN USAGE

The same device can be used with 3 phase DOL & Star - Delta starter, hence no additional device is needed.



## COMPLETE PROTECTION

Along with dry run fault protection (with dry run reset feature), it provides protection from over voltage, under voltage, single phasing or phase loss, phase reversal & phase unbalance faults.

- ★ WITH TIMER OPERATIONS
- ★ EASY THREE WIRE CONNECTION



Technology at your fingertips



LTLK Connect App

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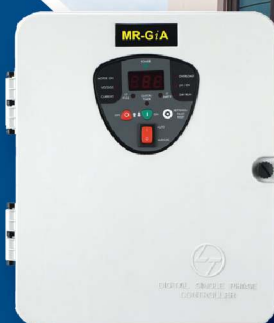
# DIGITAL SINGLE PHASE CONTROLLER

REDUCE WATER WASTAGE THROUGH AUTOMATION



## MANUAL VERSION

- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- Start & Run Capacitor
- Bypass Mode
- Off Timer
- Digital Display
- Capacitor cut-off
- Automatic Current Setting



## AUTO VERSION

- All features of Manual Version
- Inbuilt Water Level Controller
- WLC bypass feature
- Auto start capacitor switching
- Power on delay
- Dry Run auto reset timer
- Auto & Manual mode
- RTC based daily ON/OFF timer
- Timer count down display
- Cyclic timer
- Time Compensation

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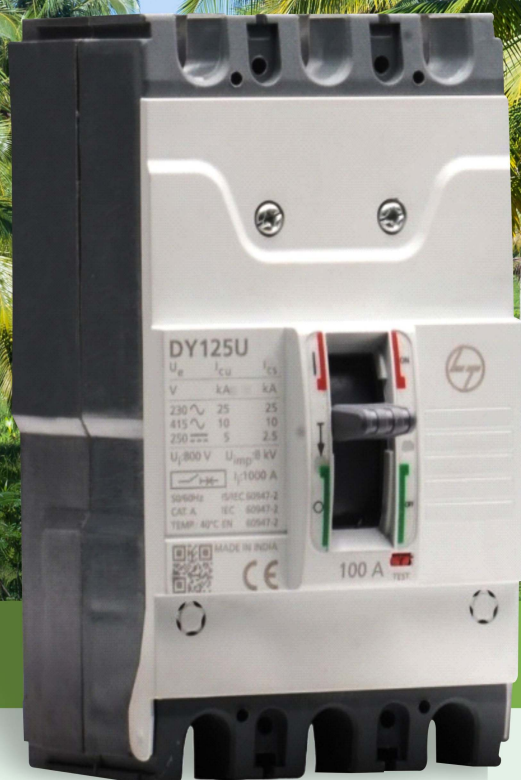
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# DY125U MCCB

For Your Pump Applications



## Features

- 25A to 100A, 3P, 415 V AC
- Breaking Capacity  $I_{cu}$ -10kA ( $I_{cs} = 100\% I_{cu}$ )
- Thermal Magnetic Release
- No Load-Line Bias
- ON-TRIP-OFF Indication
- Suitable for Isolation
- CE Marking
- Conforms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2

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**\*Remote Operation**  
All starters and Controllers can be  
**remotely operated** through  
M-POWER Pro, M-POWER++ and M-POWER+



**Px3000**  
**Solar Drive Controller**  
Empowering Green  
Irrigation Solutions

#### Note:

[Green colour : HSN code] Current GST 18%, subject to changes as per Govt. notification

[Orange colour : HSN code] Current GST 12%, subject to changes as per Govt. notification



# Starters and Controllers Offerings & Composition

## Offerings

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase DOL (Direct On-Line) |     |     |     |      |     |     |     |     |       |     |                                |        |       |       |                                                   |         |        |        |
|--------------------------------------------------------------------|------------------------------|-----|-----|-----|------|-----|-----|-----|-----|-------|-----|--------------------------------|--------|-------|-------|---------------------------------------------------|---------|--------|--------|
|                                                                    | Starters                     |     |     |     |      |     |     |     |     |       |     | Automatic Starter<br>with SPPR |        |       |       | Automatic MD Starter+<br>with <i>i</i> -PROTECTOR |         |        |        |
|                                                                    | MK1                          | MK2 | MF1 | MU1 | MU1H | MB1 | MU2 | MB2 | MU3 | ML1.5 | ML2 | MU-1A                          | MU-1HA | MU-2A | MU-3A | MD1-iU                                            | MD1H-iU | MD2-iU | MD3-iU |
| 0.125                                                              |                              |     | ✓   |     |      |     |     |     |     |       |     |                                |        |       |       |                                                   |         |        |        |
| 0.25 - 2                                                           | ✓                            |     | ✓   |     |      |     |     |     |     |       |     |                                |        |       |       |                                                   |         |        |        |
| 3 - 6                                                              | ✓                            |     | ✓   |     |      |     |     |     |     |       |     | ✓                              |        |       |       |                                                   |         |        |        |
| 7.5                                                                | ✓                            | ✓   | ✓   | ✓   | ✓    | ✓   |     |     |     | ✓     | ✓   | ✓                              |        |       |       | ✓                                                 |         |        |        |
| 10                                                                 |                              |     |     | ✓   | ✓    | ✓   |     |     |     | ✓     | ✓   | ✓                              | ✓      |       |       | ✓                                                 |         |        |        |
| 12.5                                                               |                              |     |     |     | ✓    |     | ✓   | ✓   |     | ✓     | ✓   |                                | ✓      | ✓     |       |                                                   | ✓       | ✓      |        |
| 15                                                                 |                              |     |     |     |      |     | ✓   | ✓   | ✓   | ✓     | ✓   |                                |        | ✓     | ✓     |                                                   |         | ✓      |        |
| 17.5                                                               |                              |     |     |     |      |     |     |     | ✓   |       | ✓   |                                |        |       | ✓     |                                                   |         |        | ✓      |
| 20                                                                 |                              |     |     |     |      |     |     |     |     | ✓     |     |                                |        |       |       |                                                   |         |        | ✓      |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase DOL (Direct On-Line) |         |            |          |         |                     |                  |         |          |
|--------------------------------------------------------------------|------------------------------|---------|------------|----------|---------|---------------------|------------------|---------|----------|
|                                                                    |                              |         | Controller |          |         | Controller with WLC | SMART Controller |         |          |
|                                                                    | MU-G6                        | MU-G7.5 | MU-G10     | MU-G10HN | MU-G10H | MU-G10W             | MU-G6S           | MU-G10S | MU-G10HS |
| 0.125                                                              |                              |         |            |          |         |                     |                  |         |          |
| 0.25 - 2                                                           |                              |         |            |          |         |                     |                  |         |          |
| 3 - 6                                                              | ✓                            |         | ✓          |          |         | ✓                   | ✓                | ✓       |          |
| 7.5                                                                |                              | ✓       | ✓          |          |         | ✓                   |                  | ✓       |          |
| 10                                                                 |                              |         | ✓          | ✓        | ✓       | ✓                   |                  | ✓       | ✓        |
| 12.5                                                               |                              |         |            |          |         |                     |                  |         |          |
| 15                                                                 |                              |         |            |          |         |                     |                  |         |          |
| 17.5                                                               |                              |         |            |          |         |                     |                  |         |          |
| 20                                                                 |                              |         |            |          |         |                     |                  |         |          |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase FASD (Fully Automatic Star-Delta) |     |     |     |       |     |     |     |     |                                                   |         |        |        |
|--------------------------------------------------------------------|-------------------------------------------|-----|-----|-----|-------|-----|-----|-----|-----|---------------------------------------------------|---------|--------|--------|
|                                                                    | Starters                                  |     |     |     |       |     |     |     |     | Automatic MD Starter+ with<br><i>i</i> -PROTECTOR |         |        |        |
|                                                                    | MK1                                       | MK2 | MU1 | MB1 | ML1.5 | MU2 | MB2 | ML2 | MU3 | MD1-iU                                            | MD1H-iU | MD2-iU | MD3-iU |
| 6 - 10                                                             | ✓                                         |     |     |     |       |     |     |     |     |                                                   |         |        |        |
| 12.5                                                               | ✓                                         |     | ✓   | ✓   | ✓     |     |     | ✓   |     |                                                   |         |        |        |
| 15                                                                 | ✓                                         | ✓   | ✓   | ✓   | ✓     |     |     | ✓   |     | ✓                                                 |         |        |        |
| 17.5                                                               |                                           |     |     |     |       |     |     |     |     |                                                   |         |        |        |
| 20                                                                 |                                           |     |     |     | ✓     | ✓   | ✓   | ✓   |     | ✓                                                 |         | ✓      |        |
| 25                                                                 |                                           |     |     |     | ✓     | ✓   | ✓   |     |     |                                                   | ✓       | ✓      |        |
| 30                                                                 |                                           |     |     |     |       | ✓   | ✓   | ✓   |     |                                                   |         | ✓      | ✓      |
| 35                                                                 |                                           |     |     |     |       |     |     | ✓   | ✓   |                                                   |         |        |        |
| 40                                                                 |                                           |     |     |     |       |     |     |     |     |                                                   |         |        |        |
| 50                                                                 |                                           |     |     |     |       |     |     |     |     |                                                   |         |        |        |
| 75                                                                 |                                           |     |     |     |       |     |     |     |     |                                                   |         |        |        |



# Starters and Controllers Offerings & Composition

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase FASD (Fully Automatic Star-Delta) |          |        |          |         |        |        |        |        |        |                     |         |
|--------------------------------------------------------------------|-------------------------------------------|----------|--------|----------|---------|--------|--------|--------|--------|--------|---------------------|---------|
|                                                                    | Controller                                |          |        |          |         |        |        |        |        |        | Controller with WLC |         |
|                                                                    | MU-G15                                    | MU-G17.5 | MU-G20 | MU-G20HN | MU-G20H | MU-G25 | MU-G30 | MU-G40 | MU-G50 | MU-G75 | MU-G20W             | MU-G30W |
| 6 - 10                                                             | ✓                                         |          |        |          |         |        |        |        |        |        |                     |         |
| 12.5                                                               | ✓                                         |          |        |          |         |        |        |        |        |        |                     |         |
| 15                                                                 | ✓                                         |          | ✓      |          |         |        |        |        |        |        | ✓                   |         |
| 17.5                                                               |                                           | ✓        | ✓      |          |         |        |        |        |        |        | ✓                   |         |
| 20                                                                 |                                           |          | ✓      | ✓        | ✓       |        | ✓      |        |        |        | ✓                   |         |
| 25                                                                 |                                           |          |        |          |         | ✓      | ✓      |        |        |        |                     |         |
| 30                                                                 |                                           |          |        |          |         |        | ✓      | ✓      | ✓      |        |                     | ✓       |
| 35                                                                 |                                           |          |        |          |         |        |        | ✓      | ✓      |        |                     |         |
| 40                                                                 |                                           |          |        |          |         |        |        | ✓      | ✓      |        |                     |         |
| 50                                                                 |                                           |          |        |          |         |        |        |        | ✓      | ✓      |                     |         |
| 75                                                                 |                                           |          |        |          |         |        |        |        |        | ✓      |                     |         |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase FASD (Fully Automatic Star-Delta) |          |         |          |         |         |         |         |         |
|--------------------------------------------------------------------|-------------------------------------------|----------|---------|----------|---------|---------|---------|---------|---------|
|                                                                    | SMART Controller                          |          |         |          |         |         |         |         |         |
|                                                                    | MU-G15S                                   | MU-G15HS | MU-G20S | MU-G20HS | MU-G25S | MU-G30S | MU-G40S | MU-G50S | MU-G75S |
| 6 - 10                                                             | ✓                                         |          | ✓       |          |         |         |         |         |         |
| 12.5                                                               | ✓                                         |          | ✓       |          |         |         |         |         |         |
| 15                                                                 | ✓                                         |          | ✓       |          |         |         |         |         |         |
| 17.5                                                               |                                           |          | ✓       | ✓        |         | ✓       |         |         |         |
| 20                                                                 |                                           |          | ✓       | ✓        |         |         |         |         |         |
| 25                                                                 |                                           |          |         |          |         |         |         |         |         |
| 30                                                                 |                                           |          |         |          |         | ✓       | ✓       | ✓       |         |
| 35                                                                 |                                           |          |         |          |         |         | ✓       | ✓       |         |
| 40                                                                 |                                           |          | ✓       | ✓        |         |         |         |         |         |
| 50                                                                 |                                           |          |         | ✓        | ✓       |         | ✓       |         |         |
| 75                                                                 |                                           |          |         |          |         |         |         |         | ✓       |

| HP Rating<br>(Based On<br>Relay Range<br>And Maximum<br>HP Rating) | 3 Phase SASD (Semi Automatic Star-Delta) |     |     |     |     |     |     |       |     |
|--------------------------------------------------------------------|------------------------------------------|-----|-----|-----|-----|-----|-----|-------|-----|
|                                                                    | Starters                                 |     |     |     |     |     |     |       |     |
|                                                                    | MK1                                      | MK2 | MU1 | MB1 | MU2 | MU3 | MB2 | ML1.5 | ML2 |
| 6 - 10                                                             | ✓                                        |     |     |     |     |     |     |       |     |
| 12.5                                                               | ✓                                        |     | ✓   | ✓   |     |     |     | ✓     | ✓   |
| 15                                                                 | ✓                                        | ✓   | ✓   | ✓   |     |     |     |       |     |
| 20                                                                 |                                          |     |     |     | ✓   |     | ✓   | ✓     | ✓   |
| 25                                                                 |                                          |     |     |     | ✓   |     | ✓   | ✓     |     |
| 30                                                                 |                                          |     |     |     | ✓   |     | ✓   |       | ✓   |
| 35                                                                 |                                          |     |     |     |     | ✓   |     |       | ✓   |



# Starters and Controllers Offerings & Composition

## Composition For Three Phase DOL (Direct On-Line) Starters

| Relay Range<br>(A)<br>Starter Type |  | Relays used |         |       |       |       |      |      |       |       |       |       |       |       |       |       |       |  |      |      |  |  |  |
|------------------------------------|--|-------------|---------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|------|------|--|--|--|
|                                    |  | 1-1.6       | 1.5-2.5 | 2.5-4 | 4-6.5 | 6-10  | 9-14 | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 15-25 | 20-32 | 20-33 | 24-38 | 28-42 |  |      |      |  |  |  |
| MK1                                |  | MK1         | MK1     | MK1   | MK1   | MK1   |      | MK1  |       | MK1   |       |       |       |       |       |       |       |  |      |      |  |  |  |
| MK2                                |  |             |         |       |       |       |      |      |       | MK2   |       |       |       |       |       |       |       |  |      | MK2  |  |  |  |
| MU1                                |  |             |         |       |       | MU2   |      |      |       | MU2   |       |       |       |       |       |       |       |  | MU2  |      |  |  |  |
| MU1H                               |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       |       |       |  | MU2  | MU2  |  |  |  |
| MU2                                |  |             |         |       |       |       |      |      | MU2   |       |       |       | MU2   |       |       | MU2   |       |  |      |      |  |  |  |
| MU3                                |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       |       | MU2   |  | MU2  | MU2  |  |  |  |
| MB1                                |  |             |         |       |       |       | MN2  |      |       |       |       |       |       |       | MN2   |       |       |  |      |      |  |  |  |
| MB2                                |  |             |         |       |       |       |      |      |       |       |       |       | MN2   |       | MN2   |       |       |  |      |      |  |  |  |
| ML1.5                              |  |             |         |       |       | ML2/3 |      |      | ML2/3 |       |       |       | ML2/3 |       |       |       |       |  |      |      |  |  |  |
| ML2                                |  |             |         |       |       | ML2/3 |      |      | ML2/3 |       |       |       | ML2/3 |       |       |       |       |  |      |      |  |  |  |
| MU-1A                              |  |             |         | MU1   | MU1   | MU2   |      |      | MU2   |       |       |       | MU2   |       |       |       |       |  |      |      |  |  |  |
| MU-1HA                             |  |             |         |       |       |       |      |      |       |       |       |       | MU2   | MU2   |       |       |       |  |      |      |  |  |  |
| MU-2A                              |  |             |         |       |       |       |      |      | MU2   |       |       |       |       | MU2   |       | MU2   |       |  |      |      |  |  |  |
| MU-3A                              |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       | MU2   | MU2   |  |      |      |  |  |  |
| Contactors used                    |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       |       |       |  |      |      |  |  |  |
| MK1                                |  | MK1         | MK1     | MK1   | MK1   | MK1   |      | MK1  |       | MK1   |       |       |       |       |       |       |       |  |      |      |  |  |  |
| MK2                                |  |             |         |       |       |       |      |      |       | MK2   |       |       |       |       |       |       |       |  |      | MK2  |  |  |  |
| MU1                                |  |             |         |       |       | MU1   |      |      |       | MU1   |       |       |       |       |       |       |       |  | MU1  |      |  |  |  |
| MU1H                               |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       |       |       |  | MU1H | MU1H |  |  |  |
| MU2                                |  |             |         |       |       |       |      |      | MU2   |       |       |       |       |       |       | MU2   |       |  |      |      |  |  |  |
| MU3                                |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       |       | MU2   |  | MU3  | MU3  |  |  |  |
| MB1                                |  |             |         |       |       |       | MU1  |      |       |       |       |       |       |       | MU1   |       |       |  |      |      |  |  |  |
| MB2                                |  |             |         |       |       |       |      |      |       |       |       |       |       |       | MU2   |       |       |  |      | MU2  |  |  |  |
| ML1.5                              |  |             |         |       |       | ML1.5 |      |      | ML1.5 |       |       |       | ML1.5 |       |       |       |       |  |      |      |  |  |  |
| ML2                                |  |             |         |       |       | ML2   |      |      | ML2   |       |       |       | ML2   |       |       |       |       |  |      |      |  |  |  |
| MU-1A                              |  |             |         | MU1   | MU1   | MU1   |      |      | MU1   |       |       |       | MU1   |       |       |       |       |  |      |      |  |  |  |
| MU-1HA                             |  |             |         |       |       |       |      |      |       |       |       |       | MU1H  | MU1H  |       |       |       |  |      |      |  |  |  |
| MU-2A                              |  |             |         |       |       |       |      |      | MU2   |       |       |       |       | MU2   |       | MU2   |       |  |      |      |  |  |  |
| MU-3A                              |  |             |         |       |       |       |      |      |       |       |       |       |       |       |       | MU3   | MU3   |  |      |      |  |  |  |

## Composition For Three Phase SASD (Semi Automatic Star-Delta) Starters

| Relays used                        |       |      |       |      |       |       |            |       |       |       |       |       |              |       |            |     |     |
|------------------------------------|-------|------|-------|------|-------|-------|------------|-------|-------|-------|-------|-------|--------------|-------|------------|-----|-----|
| Relay Range<br>(A)<br>Starter Type | 4-6.5 | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22      | 14-23 | 20-32 | 20-33 | 24-38 | 28-42 |              |       |            |     |     |
| MK1                                | MK1   | MK1  | MK1   |      | MK1   |       | MK1<br>MK2 |       | MN2   |       |       |       |              |       |            |     |     |
| MK2                                |       |      | MU2   |      |       |       |            |       |       |       |       |       | MU2<br>MU2   | MU2   |            |     |     |
| MU1                                |       |      |       |      |       |       |            |       |       |       |       |       |              |       | MU2        | MU2 |     |
| MU2                                |       |      |       |      |       |       |            |       | MU2   |       |       |       |              |       |            |     |     |
| MU3                                |       |      | MU2   |      |       |       |            |       |       |       |       |       | MU2          |       |            |     |     |
| MB1                                |       |      |       |      |       |       |            |       |       |       |       |       |              | MN2   | MN2        | MU2 | MU2 |
| MB2                                |       |      |       |      |       |       |            |       | MN2   |       |       |       |              |       |            |     |     |
| ML1.5                              |       |      | ML2/3 |      |       |       |            |       |       |       |       |       | ML2/3        |       |            |     |     |
| ML2                                |       |      |       |      |       |       |            |       |       |       |       |       |              | ML2/3 | ML2/3      |     |     |
| Contactors used                    |       |      |       |      |       |       |            |       |       |       |       |       |              |       |            |     |     |
| MK1                                | MK1   | MK1  | MK1   |      | MK1   |       | MK1<br>MK2 |       | MK2   |       |       |       |              |       |            |     |     |
| MK2                                |       |      | MU1   |      |       |       |            |       |       |       |       |       | MU1<br>MU2   | MU2   |            |     |     |
| MU1                                |       |      |       |      |       |       |            |       |       |       |       |       |              |       | MU2        | MU2 |     |
| MU2                                |       |      |       |      |       |       |            |       | MU2   |       |       |       |              |       |            |     |     |
| MU3                                |       |      | MU2   |      |       |       |            |       |       |       |       |       | MU2          |       |            |     |     |
| MB1                                |       |      |       |      |       |       |            |       |       |       |       |       |              | MU1   | MU1<br>MU2 | MU2 | MU3 |
| MB2                                |       |      |       |      |       |       |            |       | MU2   |       |       |       |              |       |            |     |     |
| ML1.5                              |       |      | ML2/3 |      |       |       |            |       |       |       |       |       | ML1.5<br>ML2 |       |            |     |     |
| ML2                                |       |      |       |      |       |       |            |       |       |       |       |       |              | ML2/3 | ML2        |     |     |

# Starters and Controllers Offerings & Composition

## Composition For Three Phase FASD (Fully Automatic Star-Delta) Starters

| Relays used     |       |      |       |      |       |       |       |       |       |       |       |       |
|-----------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Relay Range (A) | 4-6.5 | 6-10 | 9-14  | 9-15 | 11-18 | 13-21 | 13-22 | 14-23 | 20-32 | 20-33 | 24-38 | 28-42 |
| Starter Type    |       |      |       |      |       |       |       |       |       |       |       |       |
| MK1             | MK1   | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |
| MK2             |       |      |       |      |       |       | MK2   |       | MN2   |       |       |       |
| MU1             |       |      | MU2   |      |       | MU2   |       |       | MU2   |       |       |       |
| MU2             |       |      |       |      |       | MU2   |       |       |       |       |       |       |
| MU3             |       |      |       |      |       |       |       |       |       |       | MU2   | MU2   |
| MB1             |       |      |       | MN2  |       |       |       | MN2   |       |       |       |       |
| MB2             |       |      |       |      |       |       |       | MN2   |       | MN2   |       |       |
| ML1.5           |       |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |
| ML2             |       |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |
| Contactors used |       |      |       |      |       |       |       |       |       |       |       |       |
| Starter Type    |       |      |       |      |       |       |       |       |       |       |       |       |
| MK1             | MK1   | MK1  | MK1   |      | MK1   |       | MK1   |       |       |       |       |       |
| MK2             |       |      |       |      |       |       | MK2   |       | MK2   |       |       |       |
| MU1             |       |      | MU1   |      |       | MU1   |       |       |       |       |       |       |
| MU2             |       |      |       |      |       | MU2   |       |       | MU2   |       |       |       |
| MU3             |       |      |       |      |       |       |       |       |       |       | MU3   | MU3   |
| MB1             |       |      |       | MU1  |       |       |       | MU1   |       |       |       |       |
| MB2             |       |      |       |      |       |       |       | MU2   |       | MU2   |       |       |
| ML1.5           |       |      | ML1.5 |      |       | ML1.5 |       |       | ML1.5 |       |       |       |
| ML2             |       |      | ML2   |      |       | ML2   |       |       | ML2   |       |       |       |

**Note:** Timer used inside MK1 FASD is MK1 Timer with combination coil and in rest all of FASD starters, it is ST100 Timer.

## Composition for MD Starter+

|                                 | MD Starter+ DOL |       |       |       |       |       | MD Starter+ FASD |       |       |       |       |       | Relay Type | i-Protector Type |
|---------------------------------|-----------------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|------------|------------------|
|                                 | Contactors used |       |       |       |       |       | Contactors used  |       |       |       |       |       |            |                  |
| Relay Range (A)<br>Starter Type | 9-14            | 13-21 | 15-25 | 20-32 | 24-38 | 28-42 | 9-14             | 13-21 | 15-25 | 20-32 | 24-38 | 28-42 |            |                  |
| MD1-iU                          | MU1             | MU1   | MU1   |       |       |       | MU1              | MU1   |       |       |       |       | MU2        | i-ADSM/i-VDSM    |
| MD1H-iU                         |                 | MU1H  | MU1H  | MU1H  |       |       |                  |       | MU1H  |       |       |       | MU2        | i-ADSM/i-VDSM    |
| MD2-iU                          |                 | MU2   | MU2   | MU2   | MU2   |       |                  | MU2   | MU2   | MU2   |       | MU2   | MU2        | i-ADSM/i-VDSM    |
| MD3-iU                          |                 |       |       | MU3   | MU3   | MU3   |                  |       |       | MU3   | MU3   | MU3   | MU2        | i-ADSM/i-VDSM    |

## Composition For Three Phase Controllers

| Relays used     |       |      |      |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Relay Range (A) | 4-6.5 | 6-10 | 9-14 | 11-18 | 13-21 | 13-22 | 15-25 | 20-32 | 20-33 | 24-38 | 28-42 | 30-50 | 36-60 | 45-75 |
| Controller Type |       |      |      |       |       |       |       |       |       |       |       |       |       |       |
| MU-G6           | MK1   | MK1  | MK1  |       |       |       |       |       |       |       |       |       |       |       |
| MU-G7.5         |       |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |
| MU-G10          | MU1   | MU1  | MU2  |       | MU2   |       |       |       |       |       |       |       |       |       |
| MU-G10HN        |       |      |      |       |       |       | MU2   | MU2   |       |       |       |       |       |       |
| MU-G10H         |       |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |
| MU-G15          |       | MK1  | MK1  | MK1   |       | MK1   |       |       |       |       |       |       |       |       |
| MU-G17.5        |       |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |
| MU-G20          |       |      | MU2  |       | MU2   |       |       |       |       |       |       |       |       |       |
| MU-G20HN        |       |      |      |       |       |       | MU2   | MU2   |       |       |       |       |       |       |
| MU-G20H         |       |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |
| MU-G25          |       |      |      |       |       |       |       |       |       | MU2   | MU2   |       |       |       |
| MU-G30          |       |      |      |       |       |       |       |       | MN5   |       |       | MN5   |       |       |
| MUG40           |       |      |      |       |       |       |       |       |       |       |       | MN5   | MN5   |       |
| MU-G50          |       |      |      |       |       |       |       |       |       |       |       | MN5   |       | MN5   |
| MU-G75          |       |      |      |       |       |       |       |       |       |       |       |       |       | MN5   |
| MU-G10W         | MU1   | MU1  | MU2  |       | MU2   |       |       | MU2   |       |       | MU2   |       |       |       |
| MU-G20W         |       |      | MU2  |       | MU2   |       |       | MU2   |       |       | MU2   |       |       |       |
| MU-G30W         |       |      |      |       |       |       |       |       |       |       |       | MN5   |       |       |



# Starters and Controllers Offerings & Composition

## Composition For Three Phase Controllers

| Relay Range<br>(A)<br>Controller Type | Contactors used |      |      |       |       |       |       |       |       |       |       |       |       |       |        | Single Phase<br>Preventer Used |
|---------------------------------------|-----------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------------------------------|
|                                       | 4-6.5           | 6-10 | 9-14 | 11-18 | 13-21 | 13-22 | 15-25 | 20-32 | 20-33 | 24-38 | 28-42 | 30-50 | 36-60 | 45-75 | 66-110 |                                |
| MU-G6                                 | MK1             | MK1  | MK1  |       |       |       |       |       |       |       |       |       |       |       |        | Sz5                            |
| MU-G7.5                               |                 |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |        | Sz5                            |
| MU-G10                                | MU1             | MU1  | MU1  |       | MU1   |       |       |       |       |       |       |       |       |       |        | Sz5                            |
| MU-G10HN                              |                 |      |      |       |       |       | MU1H  | MU1H  |       |       |       |       |       |       |        | Sz5                            |
| MU-G10H                               |                 |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |        | Sz5                            |
| MU-G15                                |                 | MK1  | MK1  | MK1   |       | MK1   |       |       |       |       |       |       |       |       |        | SDz5                           |
| MU-G17.5                              |                 |      |      |       |       | MK2   |       | MK2   |       |       |       |       |       |       |        | SDz5                           |
| MU-G20                                |                 |      | MU1  |       | MU1   |       |       |       |       |       |       |       |       |       |        | SDz5                           |
| MU-G20HN                              |                 |      |      |       |       |       | MU1H  | MU1H  |       |       |       |       |       |       |        | SDz5                           |
| MU-G20H                               |                 |      |      |       |       |       |       | MU2   |       |       | MU2   |       |       |       |        | SDz5                           |
| MU-G25                                |                 |      |      |       |       |       |       |       |       | MU3   | MU3   |       |       |       |        | SDz5                           |
| MU-G30                                |                 |      |      |       |       |       |       |       | ML2W  |       |       | ML2W  |       |       |        | SDz5                           |
| MUG40                                 |                 |      |      |       |       |       |       |       |       |       |       | ML3W  | ML3W  |       |        | SDz5                           |
| MU-G50                                |                 |      |      |       |       |       |       |       |       |       |       | ML4W  |       | ML4W  |        | SDz5                           |
| MU-G75                                |                 |      |      |       |       |       |       |       |       |       |       |       |       | ML6W  | ML6W   | SDz5                           |
| MU-G10W                               | MU1             | MU1  | MU1  |       | MU1   |       |       | MU2   |       |       | MU2   |       |       |       |        | Sz5                            |
| MU-G20W                               |                 |      | MU1  |       | MU1   |       |       | MU2   |       |       | MU2   |       |       |       |        | SDz5                           |
| MU-G30W                               |                 |      |      |       |       |       |       |       |       |       |       | ML2W  |       |       |        | SDz5                           |

## Digital Relay Ranges, Contactors & SCPD Available In SMART Controller

| Digital Relay Ranges  | 4-22            | 13-32 | 13-42 | 20-42 | 24-42 | 20-50 | 30-60 | 30-75 | 45-90 | SCPD                |
|-----------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|
| SMART Controller Type |                 |       |       |       |       |       |       |       |       |                     |
|                       | Contactors used |       |       |       |       |       |       |       |       |                     |
| MU-G6S                | MK1             |       |       |       |       |       |       |       |       | 25A 3P MCB K Curve  |
| MU-G10S               | MU1             |       |       |       |       |       |       |       |       | 25A 3P MCB K Curve  |
| MU-G10HS              |                 |       |       |       |       |       |       |       |       | 50A 3P MCB K Curve  |
| MU-G15S               | MK1             | MK2   |       | MU2   |       |       |       |       |       | 63A 3P MCB K Curve  |
| MU-G15HS              |                 |       |       |       |       |       |       |       |       | 100A 3P MCB K Curve |
| MU-G20S               | * MU1           |       |       |       |       |       |       |       |       | *MU1H               |
| MU-G20HS              |                 |       | MU2   |       |       |       |       |       |       | 125A 3P MCB K Curve |
| MU-G25S               |                 |       |       |       | MU3   |       |       |       |       | 125A 3P MCB K Curve |
| MU-G30S               |                 |       |       |       |       | ML2W  |       |       |       | DZ1-160M-160A MCCB  |
| MUG40S                |                 |       |       |       |       |       | ML3W  |       |       | DZ1-160M-160A MCCB  |
| MU-G50S               |                 |       |       |       |       |       |       | ML4W  |       | DN2-250M-250A MCCB  |
| MU-G75S               |                 |       |       |       |       |       |       |       | ML6W  | DN2-250M-250A MCCB  |

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# MK1 Starters



## MK1 DOL Starters [HSN Code 8536]



Interior View of MK1 DOL

| Suitable for Pump/ Motor<br>3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                          |                   |                       | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------------------|-----------------|-----------------------------------|-------------------|-----------------------|------------------|-------------------|
|                                            |                 | Coil Voltage 360V-W (200V - 400V) | Coil Voltage 360V | Coil Voltage 400/440V |                  |                   |
| 0.25 HP                                    | 0.6 - 1         |                                   |                   | SS96210POKO           | 1                | 2665              |
| 0.5 HP                                     | 1 - 1.6         |                                   | SS96210COMO       | SS96210POMO           | 1                | 2665              |
| 1 HP                                       | 1.5 - 2.5       |                                   | SS96210COPO       | SS96210POPO           | 1                | 2665              |
| 2 HP                                       | 2.5 - 4         |                                   | SS96210CORO       | SS96210PORO           | 1                | 2665              |
| 4 HP                                       | 4 - 6.5         | SS96210SOTO                       | SS96210COTO       | SS96210POTO           | 1                | 2665              |
| 6 HP                                       | 6 - 10          | SS96210SOVO                       | SS96210COVO       | SS96210POVO           | 1                | 2665              |
| 7.5 HP                                     | 9 - 14          | SS96210SOAO                       | SS96210COAO       | SS96210POAO           | 1                | 2665              |
| 7.5 HP                                     | 11 - 18         | SS96211SOCO                       | SS96211COCO       | SS96211POCO           | 1                | 2734              |
| 7.5 HP                                     | 13 - 22         | SS96228SODO                       | SS96228CODO       | SS96228PODO           | 1                | 2804              |

**Note:** For Single Phase Starter application, please refer page no. 28.

## MK1 SASD Starters [HSN Code 8536]



Interior View of MK1 SASD

| Suitable for Pump/ Motor<br>3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------------------|-----------------|-------------------|-------------------|------------------|-------------------|
|                                            |                 | Coil Voltage 360V | Coil Voltage 440V |                  |                   |
| 6 HP                                       | 4 - 6.5         | SS96255COTO       |                   | 1                | 9820              |
| 10 HP                                      | 6 - 10          | SS96255COVO       | SS96255POVO       | 1                | 9820              |
| 12.5 / 15 HP                               | 9 - 14          | SS96255COAO       | SS96255POAO       | 1                | 9820              |
| 15 HP                                      | 11 - 18         | SS96258COCO       | SS96258POCO       | 1                | 9915              |
| 15 HP                                      | 13 - 22         | SS96260CODO       | SS96260PODO       | 1                | 10025             |

## MK1 FASD Starters [HSN Code 8536]



Interior View of MK1 FASD

| Suitable for Pump/ Motor<br>3Ø, 415V 50Hz | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------------------------------------|-----------------|-------------------|-------------------|------------------|-------------------|
|                                           |                 | Coil Voltage 360V | Coil Voltage 440V |                  |                   |
| 6 HP                                      | 4 - 6.5         | SS96254COTO       | SS96254POTO       | 1                | 10850             |
| 10 HP                                     | 6 - 10          | SS96254COVO       | SS96254POVO       | 1                | 10850             |
| 12.5 / 15 HP                              | 9 - 14          | SS96254COAO       | SS96254POAO       | 1                | 10850             |
| 15 HP                                     | 11 - 18         | SS96257COCO       | SS96257POCO       | 1                | 10955             |
| 15 HP                                     | 13 - 22         | SS96259CODO       | SS96259PODO       | 1                | 11020             |



# Spares for MK1 Starters



MK1 Spares

## MK1 Spares [HSN Code 8538]

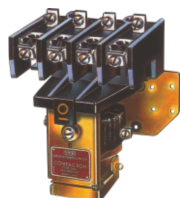
|            | Description                                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------|----------------------------------------------|-------------|------------------|-------------------|
| MK1 Spares | Spare kit with hardware (4 sets of contacts) | CS909830000 | 50               | 810               |
|            | Single moving contact                        | SS910090000 | 10               | 80                |
|            | Push button unit                             | SS900040000 | 1                | 135               |
|            | Arc shield                                   | SS500040000 | 1                | 160               |
|            | Contact bridge without contact               | SS500050000 | 1                | 145               |
|            | Aux. contact block: 1NO + 1NC                | SS901200000 | 50               | 330               |
|            | Thermal timer without combination coil       | SS902240000 | 1                | 895               |
|            | MK1 Cover Screw                              | XS000120000 | 1000             | 15                |



MK1 Standard Operating Coil

## MK1 Coil [HSN Code 8538]

|                             | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------|----------------------|-------------|------------------|-------------------|
| MK1 Standard Operating Coil | 220V                 | SS900440000 | 10               | 280               |
|                             | 230 / 250V           | SS900450000 | 10               | 280               |
|                             | 360V                 | SS901650000 | 10               | 280               |
|                             | 400 / 440V           | SS900470000 | 10               | 280               |
| Wide Band Coil              | 360V-W (200V - 400V) | SS909930000 | 10               | 310               |



MK1 Contactor

## MK1 Contactors [HSN Code 8536]

|                | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------|----------------------|-------------|------------------|-------------------|
| MK1 Contactors | 220V                 | SS95200K000 | 10               | 1950              |
|                | 230 / 250V           | SS95200N000 | 10               | 1950              |
|                | 360V                 | SS95200C000 | 10               | 1950              |
|                | 360V-W (200V - 400V) | SS95200S000 | 10               | 1950              |
|                | 400 / 440V           | SS95200P000 | 10               | 1950              |



MK1 Combination Coil

## MK1 Combination Coil [HSN Code 8538]

|                      | Description                      | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------|----------------------------------|-------------|------------------|-------------------|
| MK1 Combination Coil | Combination coils for 400 / 440V | SS904430000 | 10               | 650               |
|                      | Combination coils for 360V       | SS904460000 | 10               | 650               |



MK1 Relay

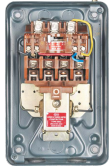
## MK1 Relays [HSN Code 8536]

|            | Description | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------|-------------|-------------|------------------|-------------------|
| MK1 Relays | 0.6 - 1A    | SS9003500K0 | 10               | 1115              |
|            | 1 - 1.6A    | SS9003500M0 | 10               | 1115              |
|            | 1.5 - 2.5A  | SS9003500P0 | 10               | 1115              |
|            | 2.5 - 4A    | SS9003500R0 | 10               | 1115              |
|            | 4 - 6.5A    | SS9003500T0 | 10               | 1115              |
|            | 6 - 10A     | SS9003500V0 | 10               | 1115              |
|            | 9 - 14A     | SS9003500A0 | 10               | 1115              |
|            | 11 - 18A    | SS9003600C0 | 10               | 1145              |
|            | 13 - 22A    | SS9188800D0 | 10               | 1265              |

# MK2 Starters



## MK2 DOL Starters [HSN Code 8536]



Interior View of MK2 DOL

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.                                |                      |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|-----------------------------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 7.5 HP                                       | 13 - 22            | CS90947SODO                             | CS90947CODO          | CS90947PODO              | 1                   | 3220                 |
| 7.5 HP                                       | 20 - 32            | CS90947SOEO                             | CS90947COEO          | CS90947POEO              | 1                   | 3220                 |

## MK2 SASD Starters [HSN Code 8536]



Interior View of MK2 SASD

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.                                |                      |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|-----------------------------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 15 HP                                        | 13-22              | CS91582SODO                             | CS91582CODO          | CS91582PODO              | 1                   | 10995                |
| 15 HP                                        | 20-32              | CS91582SOEO                             | CS91582COEO          | CS91582POEO              | 1                   | 10995                |

## MK2 FASD Starters [HSN Code 8536]



Interior View of MK2 FASD

| Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay Range<br>(A) | Cat. No.             |                          | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------------------------------------|--------------------|----------------------|--------------------------|---------------------|----------------------|
|                                              |                    | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                     |                      |
| 15 HP                                        | 13-22              | CS91583CODO          | CS91583PODO              | 1                   | 12170                |
| 15 HP                                        | 20-32              | CS91583COEO          | CS91583POEO              | 1                   | 12170                |

## Spares for MK2 Starters [HSN Code 8538]



MK2 Spares

| MK2 Spares | Description                                  | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|------------|----------------------------------------------|-------------|---------------------|----------------------|
|            | Spare kit with hardware (4 sets of contacts) | CS909560000 | 50                  | 1145                 |
|            | Single moving contact                        | CS909510000 | 10                  | 110                  |
|            | Push button unit                             | SS900040000 | 1                   | 135                  |
|            | Arc shield                                   | CS910130000 | 1                   | 165                  |
|            | Contact bridge without contact               | CS910140000 | 1                   | 150                  |

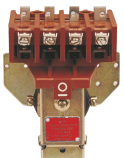
## MK1 / MK2 Coil [HSN Code 8538]



MK1 / MK2 Standard Operating Coil

| MK1 / MK2 Standard Operating Coil | Description          | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|-----------------------------------|----------------------|-------------|---------------------|----------------------|
|                                   | 220V                 | SS900440000 | 10                  | 280                  |
|                                   | 230 / 250V           | SS900450000 | 10                  | 280                  |
|                                   | 360V                 | SS901650000 | 10                  | 280                  |
|                                   | 400 / 440V           | SS900470000 | 10                  | 280                  |
| Wide Band Coil                    | 360V-W (200V - 400V) | SS909930000 | 10                  | 310                  |

## MK2 Contactors [HSN Code 8536]



MK2 Contactor

| MK2 Contactors | Description          | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|----------------|----------------------|-------------|---------------------|----------------------|
|                | 360V                 | CS90945C000 | 10                  | 2155                 |
|                | 360V-W (200V - 400V) | CS90945S000 | 10                  | 2155                 |
|                | 400 / 440V           | CS90945P000 | 10                  | 2155                 |

## MK2 Relays [HSN Code 8536]



MK2 Relay

| MK2 Relays | Description | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. ₹<br>Per Unit |
|------------|-------------|-------------|---------------------|----------------------|
|            | 13 - 22A    | CS9094600DO | 10                  | 1410                 |
|            | 20 - 32A    | CS9094600EO | 10                  | 1410                 |



# MU / MB Starters



## MU / MB DOL Starters [HSN Code 8536]



Interior View of  
MU DOL

| Starter Type                | Suitable for<br>Pump/Motor<br>30, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|-----------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                             |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                        |                         |
| MU1 DOL<br>(with MU relay)  | 7.5 HP                                          | 9 - 14                | SS95647COAO          | SS95647DOAO          | 10                     | 4515                    |
|                             | 10 HP                                           | 13 - 21               | SS95647COCO          | SS95647DOCO          | 10                     | 4680                    |
|                             | 10 HP                                           | 15 - 25               | SS95647CODO          | SS95647DODO          | 10                     | 4775                    |
| MU1H DOL<br>(with MU relay) | 10 HP                                           | 15 - 25               | CS90622CODO          | CS90622DODO          | 10                     | 4995                    |
|                             | 12.5 HP                                         | 20 - 32               | CS90622COEO          | CS90622DOEO          | 10                     | 5265                    |
| MU2 DOL<br>(with MU relay)  | 12.5 HP                                         | 13 - 21               | SS95648COCO          | SS95648DOCO          | 10                     | 5865                    |
|                             | 15 HP                                           | 20 - 32               | SS95648COEO          | SS95648DOEO          | 10                     | 6270                    |
|                             | 15 HP                                           | 24 - 38               | SS95648COGO          | SS95648DOGO          | 10                     | 6425                    |
| MU3 DOL<br>(with MU relay)  | 15 HP                                           | 24 - 38               | CS90613COGO          | CS90613DOGO          | 10                     | 7130                    |
|                             | 17.5 HP                                         | 28 - 42               | CS90613COFO          | CS90613DOFO          | 10                     | 7400                    |
| MB1 DOL<br>(with MN relay)  | 7.5 HP                                          | 9 - 15                | SS95649COBO          | SS95649DOBO          | 8                      | 5265                    |
|                             | 10 HP                                           | 14 - 23               | SS95649CODO          | SS95649DODO          | 8                      | 5375                    |
| MB2 DOL<br>(with MN relay)  | 12.5 HP                                         | 14 - 23               | SS95650CODO          | SS95650DODO          | 8                      | 7185                    |
|                             | 15 HP                                           | 20 - 33               | SS95650COEO          | SS95650DOEO          | 8                      | 7515                    |

## MU / MB SASD Starters [HSN Code 8536]



Interior View of  
MU SASD

| Starter Type                | Suitable for<br>Pump/Motor<br>30, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|-----------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                             |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                        |                         |
| MU1 SASD<br>(with MU relay) | 12.5 HP                                         | 9 - 14                | SS95891COAO          | SS95891DOAO          | 1                      | 12690                   |
|                             | 15 HP                                           | 13 - 21               | SS95891COCO          | SS95891DOCO          | 1                      | 12870                   |
| MU2 SASD<br>(with MU relay) | 20 HP                                           | 13 - 21               | SS95893COCO          | SS95893DOCO          | 1                      | 16060                   |
|                             | 30 HP                                           | 20 - 32               | SS95893COEO          | SS95893DOEO          | 1                      | 16445                   |
| MU3 SASD<br>(With MU Relay) | 35 HP                                           | 24 - 38               | CS91885COGO          | CS91885DOGO          | 1                      | 19800                   |
|                             | 35 HP                                           | 28 - 42               | CS91886COFO          | CS91886DOFO          | 1                      | 19980                   |
| MB1 SASD<br>(with MN relay) | 15 HP                                           | 14 - 23               | SS95895CODO          | SS95895DODO          | 1                      | 15330                   |
| MB2 SASD<br>(with MN relay) | 20 HP                                           | 14 - 23               | SS95897CODO          | SS95897DODO          | 1                      | 18025                   |
|                             | 30 HP                                           | 20 - 33               | SS95897COEO          | SS95897DOEO          | 1                      | 18455                   |

## MU / MB FASD Starters [HSN Code 8536]



Interior View of  
MU FASD

| Starter Type                | Suitable for<br>Pump/Motor<br>30, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|-----------------------------|-------------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                             |                                                 |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                        |                         |
| MU1 FASD<br>(with MU relay) | 12.5 HP                                         | 9 - 14                | SS95890COAO          | SS95890DOAO          | 1                      | 14650                   |
|                             | 15 HP                                           | 13 - 21               | SS95890COCO          | SS95890DOCO          | 1                      | 14800                   |
| MU2 FASD<br>(with MU relay) | 20 HP                                           | 13 - 21               | SS95892COCO          | SS95892DOCO          | 1                      | 17740                   |
|                             | 30 HP                                           | 20 - 32               | SS95892COEO          | SS95892DOEO          | 1                      | 18120                   |
| MU3 FASD<br>(With MU Relay) | 35 HP                                           | 24 - 38               | CS91887COGO          | CS91887DOGO          | 1                      | 21670                   |
|                             | 35 HP                                           | 28 - 42               | CS91888COFO          | CS91888DOFO          | 1                      | 21855                   |
| MB1 FASD<br>(with MN relay) | 12.5 HP                                         | 9 - 15                | SS95894COBO          | SS95894DOBO          | 1                      | 16245                   |
|                             | 15 HP                                           | 14 - 23               | SS95894CODO          | SS95894DODO          | 1                      | 16405                   |
| MB2 FASD<br>(with MN relay) | 20 HP                                           | 14 - 23               | SS95896CODO          | SS95896DODO          | 1                      | 20125                   |
|                             | 30 HP                                           | 20 - 33               | SS95896COEO          | SS95896DOEO          | 1                      | 20505                   |

Note: MN relay is with single phase prevention feature.

# Spares for MU / MB Starters



MU1 Contactor



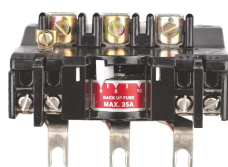
MU1H Contactor



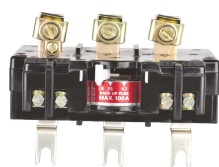
MU2 Contactor



MU3 Contactor



MU1 Relay



MU2 Relay



MU Contact Bridge



MU Spare Kit



MU Coil



MU Spare Housing



Relay Extension Knob

## MU Contactor [HSN Code 8536]

| Component      | AC3 Rating | AC1 Rating | Type      | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------|------------|------------|-----------|-------------|------------------|-------------------|
| MU1 Contactor  | 16A        | 55A        | MU1 360V  | CS94007C000 | 10               | 2895              |
|                |            |            | MU1 415V  | CS94007D000 | 10               | 2895              |
| MU1H Contactor | 22A        | 55A        | MU1H 360V | CS90623C000 | 10               | 3110              |
|                |            |            | MU1H 415V | CS90623D000 | 10               | 3110              |
| MU2 Contactor  | 25A        | 63A        | MU2 360V  | CS94008C000 | 10               | 4215              |
|                |            |            | MU2 415V  | CS94008D000 | 10               | 4215              |
| MU3 Contactor  | 32A        | 63A        | MU3 360V  | CS90609C000 | 10               | 4930              |
|                |            |            | MU3 415V  | CS90609D000 | 10               | 4930              |

## MU Relay [HSN Code 8536]

| Component | Type     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|----------|-------------|------------------|-------------------|
| MU1 Relay | 4 - 6.5A | SS9655700TO | 1                | 1420              |
|           | 6 - 10A  | SS9655700VO | 1                | 1420              |
| MU2 Relay | 9 - 14A  | SS9597900AO | 1                | 1620              |
|           | 13 - 21A | SS9597900CO | 1                | 1715              |
|           | 15 - 25A | SS9597900DO | 1                | 1865              |
|           | 20 - 32A | SS9597900EO | 1                | 2120              |
|           | 24 - 38A | SS9597900GO | 1                | 2305              |
|           | 28 - 42A | SS9597900FO | 1                | 2495              |

## MU Contactor Spares [HSN Code 8538]

| Type                              | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------------------------|-------------|------------------|-------------------|
| MU1 contact bridge                | CS949940000 | 10               | 170               |
| MU1H contact bridge               | CS910990000 | 10               | 170               |
| MU2 contact bridge                | CS949940000 | 10               | 170               |
| MU3 contact bridge                | CS910960000 | 10               | 170               |
| MU1 single moving contact         | CS949950000 | 1                | 175               |
| MU1H single moving contact        | CS911020000 | 1                | 245               |
| MU2 single moving contact         | CS949960000 | 1                | 345               |
| MU3 single moving contact         | CS911030000 | 1                | 455               |
| MU-Add ON Block - 1NO + 1NC (LHS) | SS940720000 | 10               | 345               |
| ADD-ON Block MU-A1 (1NC) (Left)   | SS940740000 | 10               | 270               |

## Spares For MU / MB [HSN Code 8538]

| Component                                   | Type | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------------|------|-------------|------------------|-------------------|
| Spare Kit                                   | MU1  | CS940100000 | 1                | 1210              |
|                                             | MU1H | CS906240000 | 1                | 1570              |
|                                             | MU2  | CS940110000 | 1                | 2235              |
|                                             | MU3  | CS906120000 | 1                | 2740              |
| MU Coils                                    | 240V | CS94009B000 | 10               | 695               |
|                                             | 360V | CS94009C000 | 10               | 695               |
|                                             | 415V | CS94009D000 | 10               | 695               |
| Spare RelayExtension Knob (Pack of 20 Nos.) | MU1  | CS943360000 | 1                | 160               |
|                                             | MU2  | CS943370000 | 1                | 160               |
| Spare Housing                               | MU1  | CS949980000 | 10               | 350               |
|                                             | MU1H | CS910980000 | 10               | 350               |
|                                             | MU2  | CS949990000 | 10               | 350               |
|                                             | MU3  | CS910600000 | 10               | 350               |



# ML Starters



## ML DOL Starters [HSN Code 8536]



Interior View of  
ML DOL

| Starter Type            | Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|-------------------------|----------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                         |                                              |                       | Coil Voltage<br>360V | Coil Voltage<br>440V |                        |                         |
| ML1.5 DOL               | 7.5 HP                                       | 9 - 14                | SS91854COAO          | SS91854POAO          | 1                      | 8595                    |
|                         | 12.5 HP                                      | 13 - 21               | SS91854COCO          | SS91854POCO          | 1                      | 8595                    |
|                         | 15 HP                                        | 20 - 32               | SS91854COEO          | SS91854POEO          | 1                      | 8595                    |
| ML2 DOL<br>(Heavy duty) | 7.5 HP                                       | 9 - 14                |                      | SS90702POAO          | 1                      | 14810                   |
|                         | 10/12.5 HP                                   | 13 - 21               | SS90702COCO          | SS90702POCO          | 1                      | 14810                   |
|                         | 20 HP                                        | 20 - 32               | SS90702COEO          | SS90702POEO          | 1                      | 14810                   |



Interior View of  
ML SASD

## ML SASD Starters [HSN Code 8536]

| Starter Type             | Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|--------------------------|----------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                          |                                              |                       | Coil Voltage<br>360V | Coil Voltage<br>440V |                        |                         |
| ML1.5 SASD               | 20 HP                                        | 13 - 21               | SS91856COCO          | SS91856POCO          | 1                      | 21065                   |
|                          | 25 HP                                        | 20 - 32               | SS91856COEO          | SS91856POEO          | 1                      | 21065                   |
| ML2 SASD<br>(Heavy duty) | 20 HP                                        | 13 - 21               | SS90707COCO          | SS90707POCO          | 1                      | 37195                   |
|                          | 35 HP                                        | 20 - 32               | SS90707COEO          | SS90707POEO          | 1                      | 37195                   |



Interior View of  
ML FASD

## ML FASD Starters [HSN Code 8536]

| Starter Type             | Suitable for Pump/Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|--------------------------|----------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                          |                                              |                       | Coil Voltage<br>360V | Coil Voltage<br>440V |                        |                         |
| ML1.5 FASD               | 12.5 HP                                      | 9 - 14                | SS91855COAO          | SS91855POAO          | 1                      | 23865                   |
|                          | 20 HP                                        | 13 - 21               | SS91855COCO          | SS91855POCO          | 1                      | 23865                   |
|                          | 25 HP                                        | 20 - 32               | SS91855COEO          | SS91855POEO          | 1                      | 23865                   |
| ML2 FASD<br>(Heavy duty) | 12.5 HP                                      | 9 - 14                |                      | SS90705POAO          | 1                      | 38610                   |
|                          | 20 HP                                        | 13 - 21               | SS90705COCO          | SS90705POCO          | 1                      | 38610                   |
|                          | 35 HP                                        | 20 - 32               | SS90705COEO          | SS90705POEO          | 1                      | 38610                   |

# Spares for ML Starters



ML1.5 Contactor

## ML Contactor [HSN Code 8536]

| Component    | Type  | AC3 Rating (A) | AC1 Rating (A) | Aux. Contacts | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------|----------------|----------------|---------------|-------------|------------------|-------------------|
| ML Contactor | ML1.5 | 25             | 25             | 2 NO + 2 NC   | SS91851C000 | 1                | 4490              |
|              | ML2W  | 32             | 40             | 2 NO + 2 NC   | CS96005L000 | 1                | 8720              |
|              | ML3W  | 40             | 45             | 2 NO + 2 NC   | CS90907L000 | 1                | 13100             |
|              | ML4W  | 70             | 100            | 2 NO + 2 NC   | CS96006L000 | 1                | 21400             |
|              | ML6W  | 110            | 125            | 2 NO + 2 NC   | CS90168L000 | 1                | 34500             |



Standard Operating Coil ML1.5

## ML Coil [HSN Code 8538]

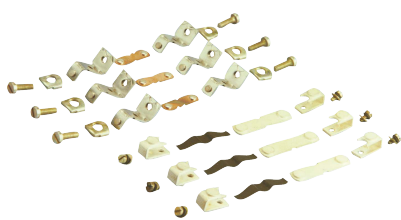
| Component                                                | Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------------------|---------|-------------|------------------|-------------------|
| Standard Operating Coils for ML1.5                       | 240V    | SS90873B000 | 10               | 925               |
|                                                          | 360V    | SS90873C000 | 10               | 925               |
|                                                          | 380V    | SS90873L000 | 10               | 925               |
|                                                          | 440V    | SS90873P000 | 10               | 925               |
| Standard Operating Coils for ML2/ML2W/ML3/ML3W Contactor | 240V    | SS90545B000 | 10               | 1700              |
|                                                          | 360V    | SS90545C000 | 10               | 1700              |
|                                                          | 380V    | SS90545L000 | 10               | 1700              |
|                                                          | 440V    | SS90545P000 | 10               | 1700              |
| Standard Operating Coils for ML4/ML4W Contactor          | 240V    | SS91258B000 | 10               | 3250              |
|                                                          | 360V    | SS91258C000 | 10               | 3250              |
|                                                          | 380V    | SS91258L000 | 10               | 3250              |
|                                                          | 440V    | SS91258P000 | 10               | 3250              |



Standard Operating Coil ML2 / ML3

## ML1.5 [HSN Code 8538]

|                                   |       |             |    |      |
|-----------------------------------|-------|-------------|----|------|
| Spare kit without coil            | ML1.5 | SS953050000 | 50 | 2320 |
| Moving contacts kit               | ML1.5 | SS928170000 | 10 | 760  |
| Front Housing & Moving Bridge kit | ML1.5 | ST287340000 | 10 | 840  |



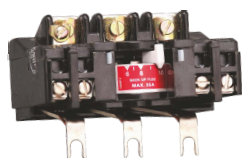
Spare kit

## ML2 [HSN Code 8538]

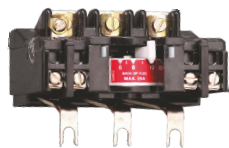
|                                   |     |             |    |      |
|-----------------------------------|-----|-------------|----|------|
| Spare kit without coil            | ML2 | SS953070000 | 10 | 4240 |
| Moving contacts kit               | ML2 | SS928180000 | 10 | 1150 |
| Front Housing & Moving Bridge kit | ML2 | ST238660000 | 10 | 1150 |

## ML Relay [HSN Code 8536]

| Type of Mounting (Operation) | Relay Range (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|------------------------------|-----------------|-------------|------------------|-------------------|
| (Directly Operated)          | ML1             |             |                  |                   |
|                              | 4 - 6.5         | SS9185800T0 | 10               | 3110              |
|                              | 6 - 10          | SS9185800V0 | 10               | 3110              |
|                              | 10 - 16         | SS9185800B0 | 10               | 3110              |
| (Directly Operated)          | ML2 / ML3       |             |                  |                   |
|                              | 9 - 14          | SS9185900A0 | 2                | 4590              |
|                              | 13 - 21         | SS9185900C0 | 2                | 4590              |
|                              | 20 - 32         | SS9185900E0 | 2                | 4590              |
|                              | 28 - 42         | SS9185900F0 | 2                | 4590              |



ML1 Relay



ML2 / ML3 Relay



# MU-Automatic DOL Starters



Now available with  
emergency OFF  
rocker switch



## MU-Automatic DOL Starter [HSN Code 8536]



Interior View of MU-A DOL

| Starter Type                  | Suitable for<br>Pump/<br>Motor<br>3Ø, 415V,<br>50Hz | Relay<br>Range<br>(A) | Cat. No.             |                      | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|-------------------------------|-----------------------------------------------------|-----------------------|----------------------|----------------------|------------------------|-------------------------|
|                               |                                                     |                       | Coil Voltage<br>360V | Coil Voltage<br>415V |                        |                         |
| MU-1A DOL<br>(with Sz5 SPPR)  | 3 HP                                                | 4 - 6.5               | CS90898COTO          | CS90898DOTO          | 1                      | 6460                    |
|                               | 5 HP                                                | 6 - 10                | CS90898COVO          | CS90898DOVO          | 1                      | 6460                    |
|                               | 7.5 HP                                              | 9 - 14                | CS90898COAO          | CS90898DOAO          | 1                      | 6575                    |
|                               | 10 HP                                               | 13 - 21               | CS90898COCO          | CS90898DOCOC         | 1                      | 6690                    |
|                               | 10 HP                                               | 15 - 25               | CS90898CODO          | CS90898DODO          | 1                      | 6825                    |
| MU-1HA DOL<br>(with Sz5 SPPR) | 10 HP                                               | 15 - 25               | CS90899CODO          | CS90899DODO          | 1                      | 6985                    |
|                               | 12.5 HP                                             | 20 - 32               | CS90899COEO          | CS90899DOEO          | 1                      | 7195                    |
| MU-2A DOL<br>(with Sz5 SPPR)  | 12.5 HP                                             | 13 - 21               | CS90900COCO          |                      | 1                      | 7920                    |
|                               | 15 HP                                               | 20 - 32               | CS90900COEO          | CS90900DOEO          | 1                      | 8240                    |
|                               | 15 HP                                               | 24 - 38               | CS90900COGO          | CS90900DOGO          | 1                      | 8375                    |
| MU-3A DOL<br>(with Sz5 SPPR)  | 15 HP                                               | 24 - 38               | CS90901COGO          | CS90901DOGO          | 1                      | 8790                    |
|                               | 17.5 HP                                             | 28 - 42               | CS90901COFO          | CS90901DOFO          | 1                      | 8995                    |

# MF1 Three Phase Starters



## MF1 Three Phase Starters [HSN Code 8536]



Interior View of  
MF1 DOL - 3Ø Starter

| Suitable for<br>Pump/Motor<br>3Ø, 415V, 50Hz | Relay Range<br>(A) | Cat. No.    | Std.<br>Pkg.<br>(Nos.) | M.R.P.<br>₹<br>Per Unit |
|----------------------------------------------|--------------------|-------------|------------------------|-------------------------|
| 0.125 HP                                     | 0.4 - 0.65         | SS9721000HO | 1                      | 2295                    |
| 0.25 HP                                      | 0.6 - 1            | SS9721000KO | 1                      | 2295                    |
| 0.5 HP                                       | 1 - 1.6            | SS9721000MO | 1                      | 2295                    |
| 1.25 HP                                      | 1.5 - 2.5          | SS9721000PO | 1                      | 2295                    |
| 2 HP                                         | 2.5 - 4            | SS9721000RO | 1                      | 2295                    |
| 4 HP                                         | 4 - 6.5            | SS9721000TO | 1                      | 2295                    |
| 6 HP                                         | 6 - 10             | SS9721000VO | 1                      | 2295                    |
| 7.5 HP                                       | 9 - 15             | SS9721000BO | 1                      | 2295                    |
| 7.5 HP                                       | 11 - 18            | SS9721000CO | 1                      | 2295                    |

# STARTER+ AUTOMATIC OPERATION WITH EXTRA PROTECTIONS

## FEATURES



Dry Run Protection



Current/ Voltage Based  
Protections : Phase Loss,  
Phase Unbalance,  
Phase Reversal



Undervoltage &  
Overvoltage Protection



Digital Metering,  
On Delay Timer,  
Star Delta Timer



**MD Starter+ FASD**



**MD Starter+ DOL**

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With *i*-VDSM – Voltage Sensing-Based Protection



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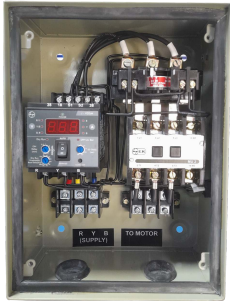
# MD Starter+



NEW

## MD Starter+ DOL [HSN CODE 8536]

| Starter Type | Suitable for Pump/ Motor (3Ø, 415V, 50Hz) | i-PROTECTOR | Relay Range (A) | Cat. No.           |                    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------------------------------------------|-------------|-----------------|--------------------|--------------------|------------------|-------------------|
|              |                                           |             |                 | Coil Voltage 360 V | Coil Voltage 415 V |                  |                   |
| MD1-iU       | 7.5 HP                                    | i-ADSM      | 9-14            | CS91753COAO        | CS91753DOAO        | 1                | 8795              |
| MD1-iU       | 10 HP                                     | i-ADSM      | 13-21           | CS91753COCO        | CS91753DOCO        | 1                | 8845              |
| MD1H-iU      | 12.5 HP                                   | i-ADSM      | 13-21           | CS91754COCO        | CS91754DOCO        | 1                | 9020              |
| MD2-iU       | 12.5 HP                                   | i-ADSM      | 13-21           | CS91755COCO        | CS91755DOCO        | 1                | 9895              |
| MD1-iU       | 10 HP                                     | i-ADSM      | 15-25           | CS91753CODO        | CS91753DODO        | 1                | 8930              |
| MD1H-iU      | 12.5 HP                                   | i-ADSM      | 15-25           | CS91754CODO        | CS91754DODO        | 1                | 9125              |
| MD2-iU       | 12.5 HP                                   | i-ADSM      | 15-25           | CS91755CODO        | CS91755DODO        | 1                | 9975              |
| MD1H-iU      | 12.5 HP                                   | i-ADSM      | 20-32           | CS91754COEO        | CS91754DOEO        | 1                | 9265              |
| MD2-iU       | 15 HP                                     | i-ADSM      | 20-32           | CS91755COEO        | CS91755DOEO        | 1                | 10090             |
| MD3-iU       | 17.5 HP                                   | i-ADSM      | 20-32           | CS91756COEO        | CS91756DOEO        | 1                | 10540             |
| MD2-iU       | 15 HP                                     | i-ADSM      | 24-38           | CS91755COGO        | CS91755DOGO        | 1                | 10175             |
| MD3-iU       | 17.5 HP                                   | i-ADSM      | 24-38           | CS91756COGO        | CS91756DOGO        | 1                | 10605             |
| MD3-iU       | 20 HP                                     | i-ADSM      | 28-42           | CS91756COFO        | CS91756DOFO        | 1                | 10680             |
| MD1-iU       | 7.5 HP                                    | i-VDSM      | 9-14            | CS91757COAO        | CS91757DOAO        | 1                | 8795              |
| MD1-iU       | 10 HP                                     | i-VDSM      | 13-21           | CS91757COCO        | CS91757DOCO        | 1                | 8845              |
| MD1H-iU      | 12.5 HP                                   | i-VDSM      | 13-21           | CS91758COCO        | CS91758DOCO        | 1                | 9020              |
| MD2-iU       | 12.5 HP                                   | i-VDSM      | 13-21           | CS91759COCO        | CS91759DOCO        | 1                | 9895              |
| MD1-iU       | 10 HP                                     | i-VDSM      | 15-25           | CS91757CODO        | CS91757DODO        | 1                | 8930              |
| MD1H-iU      | 12.5 HP                                   | i-VDSM      | 15-25           | CS91758CODO        | CS91758DODO        | 1                | 9125              |
| MD2-iU       | 12.5 HP                                   | i-VDSM      | 15-25           | CS91759CODO        | CS91759DODO        | 1                | 9975              |
| MD1H-iU      | 12.5 HP                                   | i-VDSM      | 20-32           | CS91758COEO        | CS91758DOEO        | 1                | 9265              |
| MD2-iU       | 15 HP                                     | i-VDSM      | 20-32           | CS91759COEO        | CS91759DOEO        | 1                | 10090             |
| MD3-iU       | 17.5 HP                                   | i-VDSM      | 20-32           | CS91760COEO        | CS91760DOEO        | 1                | 10540             |
| MD2-iU       | 15 HP                                     | i-VDSM      | 24-38           | CS91759COGO        | CS91759DOGO        | 1                | 10175             |
| MD3-iU       | 17.5 HP                                   | i-VDSM      | 24-38           | CS91760COGO        | CS91760DOGO        | 1                | 10605             |
| MD3-iU       | 20 HP                                     | i-VDSM      | 28-42           | CS91760COFO        | CS91760DOFO        | 1                | 10680             |

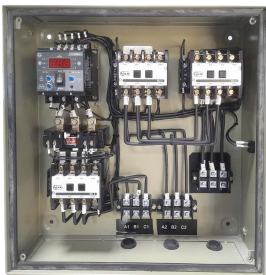


Interior View of MD Starter+ DOL Starter

NEW

## MD Starter+ FASD [HSN CODE 8536]

| Starter Type | Suitable for Pump/ Motor (3Ø, 415V, 50Hz) | i-PROTECTOR | Relay Range (A) | Cat. No.           |                    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------|-------------------------------------------|-------------|-----------------|--------------------|--------------------|------------------|-------------------|
|              |                                           |             |                 | Coil Voltage 360 V | Coil Voltage 415 V |                  |                   |
| MD1-iU       | 15 HP                                     | i-ADSM      | 9-14            | CS91778COAO*       | CS91778DOAO*       | 1                | 17690             |
| MD1-iU       | 20 HP                                     | i-ADSM      | 13-21           | CS91778COCO        | CS91778DOCO        | 1                | 17890             |
| MD1H-iU      | 25 HP                                     | i-ADSM      | 15-25           | CS91779COEO        | CS91779DOEO        | 1                | 18695             |
| MD2-iU       | 25 HP                                     | i-ADSM      | 15-25           | CS91780CODO        | CS91780DODO        | 1                | 21780             |
| MD2-iU       | 20 HP                                     | i-ADSM      | 13-21           | CS91780COCO        | CS91780DOCO        | 1                | 21605             |
| MD2-iU       | 30 HP                                     | i-ADSM      | 20-32           | CS91780COEO        | CS91780DOEO        | 1                | 22045             |
| MD2-iU       | 30 HP                                     | i-ADSM      | 28-42           | CS91780COFO*       | CS91780DOFO*       | 1                | 22540             |
| MD3-iU       | 30 HP                                     | i-ADSM      | 20-32           | CS91781COEO        | CS91781DOEO        | 1                | 24485             |
| MD3-iU       | 30 HP                                     | i-ADSM      | 24-38           | CS91781COGO        | CS91781DOGO        | 1                | 24760             |
| MD3-iU       | 30 HP                                     | i-ADSM      | 28-42           | CS91781COFO        | CS91781DOFO        | 1                | 24925             |
| MD1-iU       | 15 HP                                     | i-VDSM      | 9-14            | CS91768COAO        | CS91768DOAO        | 1                | 17690             |
| MD1-iU       | 20 HP                                     | i-VDSM      | 13-21           | CS91768COCO        | CS91768DOCO        | 1                | 17890             |
| MD2-iU       | 20 HP                                     | i-VDSM      | 13-21           | CS91783COCO        | CS91783DOCO        | 1                | 21605             |
| MD1H-iU      | 25 HP                                     | i-VDSM      | 15-25           | CS91782COEO        | CS91782DOEO*       | 1                | 18695             |
| MD2-iU       | 25 HP                                     | i-VDSM      | 15-25           | CS91783CODO        | CS91783DODO        | 1                | 21780             |
| MD2-iU       | 30 HP                                     | i-VDSM      | 20-32           | CS91783COEO        | CS91783DOEO        | 1                | 22045             |
| MD2-iU       | 30 HP                                     | i-VDSM      | 28-42           | CS91783COFO        | CS91783DOFO*       | 1                | 22540             |
| MD3-iU       | 30 HP                                     | i-VDSM      | 20-32           | CS91784COEO        | CS91784DOEO*       | 1                | 24485             |
| MD3-iU       | 30 HP                                     | i-VDSM      | 24-38           | CS91784COGO        | CS91784DOGO        | 1                | 24760             |
| MD3-iU       | 30 HP                                     | i-VDSM      | 28-42           | CS91784COFO        | CS91784DOFO        | 1                | 24925             |



Interior View of MD Starter+ FASD Starter

Note: \* Upcoming Cat. Nos.



# Px3000

## Solar Drive Controller

## EMPOWERING GREEN IRRIGATION SOLUTIONS



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Robust design to  
handle high input DC  
voltage up to 850V



Grid Compatible



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Rugged design, best-in-class  
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ambient without derating



Built-in RS485



Plug &  
Play Drive



Automatic  
Start & Stop



Wide operating range –  
Vmpp Range: 250V~750Vdc  
Voc Range: 300V~ 850Vdc



[HSN Code 8504]

| Px3000<br>Solar Drive Controller | Cat. No.        |
|----------------------------------|-----------------|
| 5 HP                             | EAVF-P4009P5BAA |
| 7.5 HP                           | EAVF-P4014P0BAA |
| 10 HP                            | EAVF-P4018P0BAA |



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# MU-G6 / 7.5 / 10 Three Phase Submersible Pump Controllers (with Single Phase Preventer)



Interior View of MU-G6 DOL

## MU-G6 DOL (With Wideband Coil) [HSN Code 8536]

| Type      | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage       | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------|---------------------------------------------------|-----------------|--------------------|-------------|------------------|------------------|
| MU-G6 DOL | 3 HP                                              | 4 - 6.5         | 360V-W (200V-400V) | SS97756COTO | 1                | 8135             |
|           | 5 HP                                              | 6 - 10          | 360V-W (200V-400V) | SS97756COVO | 1                | 8135             |
|           | 6 HP                                              | 9 - 14          | 360V-W (200V-400V) | SS97756COAO | 1                | 8135             |



Interior View of MU-G7.5 DOL

## MU-G7.5 DOL (With Wideband Coil) [HSN Code 8536]

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Coil Voltage         | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----|-----------------|----------------------|-------------|------------------|------------------|
|             | HP                                                | KW  |                 |                      |             |                  |                  |
| MU-G7.5 DOL | 7.5 HP                                            | 5.5 | 13 - 22         | 360V-W (200V - 400V) | CS92103SODO | 1                | 8615             |
|             | 7.5 HP                                            | 5.5 | 20 - 32         | 360V-W (200V - 400V) | CS92103SOEO | 1                | 8615             |



Interior View of MU-G10 DOL

## MU-G10 DOL (With Wideband Coil) [HSN Code 8536]

| Type                     | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |         | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------|---------------------------------------------------|---------|-----------------|-------------------|-------------------|------------------|------------------|
|                          | HP                                                | kW      |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                  |
|                          |                                                   |         |                 |                   |                   |                  |                  |
| MU-G10 DOL               | 3                                                 | 2.2     | 4 - 6.5         | SS95983COTO       | SS95983DOTO       | 1                | 9400             |
|                          | 5                                                 | 3.7     | 6 - 10          | SS95983COVO       | SS95983DOVO       | 1                | 9400             |
|                          | 6                                                 | 4.5     | 9 - 14          | SS95983COAO       | SS95983DOAO       | 1                | 9540             |
|                          | 7.5/10                                            | 5.5/7.5 | 13 - 21         | SS95983COCO       | SS95983DOCO       | 1                | 9665             |
| MU-G10HN DOL             | 10                                                | 7.5     | 15-25           | CS92102CODO       | CS92102DODO       | 1                | 9795             |
|                          | 10                                                | 7.5     | 20-32           | CS92102COEO       | CS92102DOEO       | 1                | 9970             |
| MU-G10H DOL (Heavy duty) | 10                                                | 7.5     | 20 - 32         | SS95974COEO       | SS95974DOEO       | 1                | 10875            |
|                          | 10                                                | 7.5     | 28 - 42         | SS95974COFO       | SS95974DOFO       | 1                | 11210            |

# MU-G15 / 17.5 / 20/25 Three Phase Submersible Pump Controllers (with Single Phase Preventer)



## MU-G15 FASD (With Wideband Coil) [HSN Code 8536]



Interior View of MU-G15 FASD

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Cat. No.                          | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----|-----------------|-----------------------------------|------------------|------------------|
|             | HP                                                | kW  |                 | Coil Voltage 360V-W (200V - 400V) |                  |                  |
| MU-G15 FASD | 7.5                                               | 5.5 | 6 - 10          | CS94091SOVO                       | 1                | 15770            |
|             | 10                                                | 7.5 | 9 - 14          | CS94091SOAO                       | 1                | 15770            |
|             | 15                                                | 11  | 11 - 18         | CS94091SOCO                       | 1                | 15910            |
|             | 15                                                | 11  | 13 - 22         | CS94091SODO                       | 1                | 15985            |



Interior View of MU-G17.5 FASD

## MU-G17.5 FASD (With Wideband Coil) [HSN Code 8536]

| Type          | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------|----------------------------------------|-----------------|-------------|------------------|------------------|
|               | HP                                     |                 |             |                  |                  |
| MU-G17.5 FASD | 17.5 HP                                | 13 - 22         | CS91880SODO | 1                | 17400            |
|               | 17.5 HP                                | 20 - 32         | CS91880SOEO | 1                | 17400            |



Interior View of MU-G20 FASD

## MU-G20 FASD (With Wideband Coil) [HSN Code 8536]

| Type                      | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |       | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------|---------------------------------------------------|-------|-----------------|-------------------|-------------------|------------------|------------------|
|                           | HP                                                | kW    |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                  |
| MU-G20 FASD               | 10                                                | 7.5   | 9 - 14          | SS95984COAO       | SS95984DOAO       | 1                | 18430            |
|                           | 15/20                                             | 11/15 | 13 - 21         | SS95984COCO       | SS95984DOCO       | 1                | 18530            |
| MU-G20HN FASD             | 20                                                | 15    | 15-25           | CS92101CODO       | CS92101DODO       | 1                | 19235            |
|                           | 20                                                | 15    | 20-32           | CS92101COEO       | CS92101DOEO       | 1                | 19500            |
| MU-G20H FASD (Heavy duty) | 20                                                | 15    | 20 - 32         | SS95975COEO       | SS95975DOEO       | 1                | 22860            |
|                           | 20                                                | 15    | 28 - 42         | SS95975COFO       | SS95975DOFO       | 1                | 23345            |



Interior View of MU-G25 FASD

## MU-G25 FASD (With Wideband Coil) [HSN Code 8536]

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|-------------------|-------------------|------------------|------------------|
|             | HP                                                |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                  |
| MU-G25 FASD | 25                                                | 24 - 38         | CS91969COGO       | CS91969DOGO       | 1                | 26370            |
|             | 25                                                | 28 - 42         | CS91969COFO       | CS91969DOFO       | 1                | 26570            |



# MU-G30 / 40 / 50 / 75 Three Phase Submersible Pump Controller (with Single Phase Preventer)



With  
ML Contactor  
& MN5 Relay



Interior View of  
MU-G30 FASD

## MU-G30 FASD (With Wideband Coil) [HSN Code 8536]

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|------------------|------------------|
| MU-G30 FASD | 20 HP                                             | 20 - 33         | 380V         | CS96008COEO | 1                | 36390            |
|             | 30 HP                                             | 30 - 50         | 380V         | CS96008COGO | 1                | 37250            |



Interior View of  
MU-G40 FASD

## MU-G40 FASD (With Wideband Coil) [HSN Code 8536]

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|------------------|------------------|
| MU-G40 FASD | 30 HP                                             | 30 - 50         | 380V         | CS90908LOGO | 1                | 44190            |
|             | 40 HP                                             | 36 - 60         | 380V         | CS90908LOTO | 1                | 44925            |



Interior View of  
MU-G50 FASD

## MU-G50 FASD (With Wideband Coil) [HSN Code 8536]

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|------------------|------------------|
| MU-G50 FASD | 30 HP                                             | 30 - 50         | 380V         | CS96009COGO | 1                | 58970            |
|             | 50 HP                                             | 45 - 75         | 380V         | CS96009COJO | 1                | 60750            |



Interior View of  
MU-G75 FASD

## MU-G75 FASD (With Wideband Coil) [HSN Code 8536]

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------|---------------------------------------------------|-----------------|--------------|-------------|------------------|------------------|
| MU-G75 FASD | 50 HP                                             | 45 - 75         | 380V         | CS96451LOJO | 1                | 84300            |
|             | 75 HP                                             | 66 - 110        | 380V         | CS96451LOKO | 1                | 84300            |

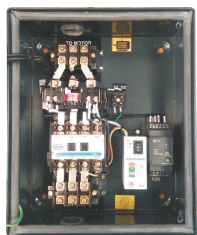
## ML Spares [HSN Code 8538]

| Type                                      | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------------------|-------------|------------------|------------------|
| Spare Kit ML2                             | SS953070000 | 10               | 4240             |
| Spare Kit ML3                             | SS953090000 | 10               | 7150             |
| Spare Kit ML4                             | SS953110000 | 10               | 11100            |
| Spare Kit ML6                             | SS953130000 | 10               | 19600            |
| Front Housing & Bridge Assembly Kit ML1.5 | ST287340000 | 1                | 840              |
| Front Housing & Bridge Assembly Kit ML2/3 | ST238660000 | 1                | 1150             |
| Front Housing & Bridge Assembly Kit ML4/6 | ST287350000 | 1                | 2090             |

# MU-G 10W / 20W / 30W Three Phase Submersible Controller (with WLC & SPPR)



## MU-G10W DOL (With Wideband Coil) [HSN Code 8536]



Interior View of  
MU-G10W DOL

| Type                                       | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------------------|---------------------------------------------------|-----|-----------------|-------------------|-------------------|------------------|------------------|
|                                            | HP                                                | kW  |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                  |
| MU-G10W DOL with in-built WLC              | 3                                                 | 2.2 | 4 - 6.5         | CS91037COTO       | CS91037DOTO       | 1                | 13110            |
|                                            | 5                                                 | 3.7 | 6 - 10          | CS91037COVO       | CS91037DOVO       | 1                | 13110            |
|                                            | 7.5                                               | 5.5 | 9 - 14          | CS91037COAO       | CS91037DOAO       | 1                | 13270            |
| MU-G10W DOL (Heavy duty) with in-built WLC | 10                                                | 7.5 | 13 - 21         | CS91037COCO       | CS91037DOCOCO     | 1                | 13385            |
|                                            | 10                                                | 7.5 | 20 - 32         |                   | CS91037DOEO       | 1                | 14800            |
|                                            | 10                                                | 7.5 | 28 - 42         | CS91037COFO       |                   | 1                | 15125            |

## MU-G20W FASD (With Wideband Coil) [HSN Code 8536]



Interior View of  
MU-G20W FASD

| Type                                        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |    | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------|---------------------------------------------------|----|-----------------|-------------------|-------------------|------------------|------------------|
|                                             | HP                                                | kW |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                  |
| MU-G20W FASD with in-built WLC              | 15                                                | 11 | 9 - 14          |                   | CS91038DOAO       | 1                | 22790            |
|                                             | 20                                                | 15 | 13 - 21         | CS91038COCO       | CS91038DOCOCO     | 1                | 22890            |
| MU-G20W FASD (Heavy duty) with in-built WLC | 20                                                | 15 | 20 - 32         | CS91038COEO       | CS91038DOEO       | 1                | 26765            |
|                                             | 20                                                | 15 | 28 - 42         |                   | CS91038DOFO       | 1                | 27300            |



Interior View of  
MU-G30W FASD

## MU-G30W FASD (With Wideband Coil) [HSN Code 8536]

| Type                           | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz | Relay Range (A) | Coil Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------|---------------------------------------------------|-----------------|--------------|-------------|------------------|------------------|
| MU-G30W FASD with in-built WLC | 30 HP                                             | 30 - 50         | 380V         | CS91039COGO | 1                | 42485            |

## Spare MN Relay [HSN Code 8536]



MN 2



MN 5

| Type of Mounting (Operation)           | Relay Range (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------|-----------------|-------------|------------------|------------------|
| (Directly Operated)<br>Direct Mounting | MN 2            |             |                  |                  |
|                                        | 6 - 10          | SS9414200VO | 10               | 1700             |
|                                        | 9 - 15          | SS9414200BO | 10               | 1710             |
|                                        | 14 - 23         | SS9414400DO | 10               | 1860             |
|                                        | 20 - 33         | SS9414500EO | 10               | 2740             |
| (Directly Operated)<br>Direct Mounting | MN 5            |             |                  |                  |
|                                        | 20 - 33         | SS9413600EO | 10               | 3410             |
|                                        | 30 - 50         | SS9413600GO | 10               | 4200             |
|                                        | 36 - 60         | SS9413600TO | 10               | 4520             |
|                                        | 45 - 75         | SS9413700JO | 10               | 4850             |
|                                        | 66 - 110        | SS9413700KO | 10               | 5530             |



# Spares for MU-G Submersible Pump Controller



Terminal Block  
60A-3 Way

Terminal Block  
30A-5 Way



Terminal Block  
100A-3 Way

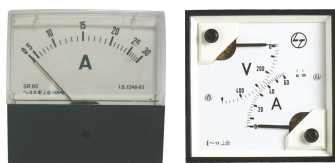


Spare Lamp

Indicating Lamp  
Red & Green



Rocker Switch



Ammeter

Volt-Ammeter



SPPR Type Sz5 (7 Wire & 6 Wire)



SPPR Type SDz5

| SPPR Type | Modes of Operation |        |        | Timer |
|-----------|--------------------|--------|--------|-------|
|           | Auto               | Manual | Bypass |       |
| Sz5       | ✓                  | ✓      | ✓      |       |
| SDz5      | ✓                  | ✓      | ✓      | ✓     |



Spare  
ON-OFF plug

Timer ST100

## Terminal Block [HSN Code 8538]

| Description                                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------|-------------|------------------|------------------|
| Terminal Block 30A - 5 way (For MR-G2)      | CS960320000 | 1                | 250              |
| Terminal Block 60A - 3 way (For MU-G10/20)  | CS948060000 | 1                | 205              |
| Terminal Block 100A - 3 way (For MU-G30/50) | CS943380000 | 1                | 1235             |
| Terminal Block 125A - 3 way (For MU-G75)    | CS901720000 | 1                | 4540             |

## Indicating lamp [HSN Code 8531]

| Description                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------------------|-------------|------------------|------------------|
| Indicating lamp Red 415V    | CS94810D000 | 1                | 335              |
| Indicating lamp Green 415V  | CS94812D000 | 1                | 335              |
| Spare Lamp, MR-G Controller | CS961260000 | 1                | 80               |

## Rocker switch [HSN Code 8538]

| Description                          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------------------------|-------------|------------------|------------------|
| Rocker switch (For MU-G6 to MU-G20)  | CS902840000 | 1                | 90               |
| Rocker switch (For MU-G30 to MU-G75) | CS902720000 | 1                | 150              |
| Voltage selector switch              | CS943350000 | 1                | 470              |

## Volt-Ammeter [HSN Code 9030]

| Description                                     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------------------------|-------------|------------------|------------------|
| Volt-Ammeter 500V 30A                           | CS94817E0E0 | 1                | 1380             |
| Volt-Ammeter 500V 60A                           | CS94817E0T0 | 1                | 1425             |
| Volt-Ammeter 500V, 0-75A                        | CS900550000 | 1                | 1425             |
| Volt-Ammeter 500V, 0-100A                       | CS900560000 | 1                | 1425             |
| Volt-Ammeter 500V, 0-125A                       | CS900570000 | 1                | 1425             |
| 30A Ammeter Spare for MR-G Controller           | CS960260000 | 1                | 610              |
| Volt-Ammeter (30A, 300V AC) for MR-G Controller | CS960280000 | 1                | 1060             |

## SPPR [HSN Code 9032]

| Description                                       | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------------|-------------|------------------|------------------|
| SPPR type Sz5 (7 Wire), 380V                      | ST921660000 | 1                | 935              |
| SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)     | CS94824C000 | 1                | 935              |
| SPPR type Sz5 (6 Wire), 380V (For MU-G6)          | CS94824L000 | 1                | 935              |
| SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)     | CS94824D000 | 1                | 935              |
| SPPR type SDz5, 360V (For MU-G20/20H)             | XM818080000 | 1                | 1810             |
| SPPR type SDz5, 380V (For MU-G30/40/50/75)        | XM818070000 | 1                | 1810             |
| SPPR type SDz5, 415V (For MU-G15/20/20H)          | XM818090000 | 1                | 1810             |
| SPPR type Sz5(6 long wire), 360V (FOR MU-G10/10H) | CS94855C000 | 1                | 1010             |
| SPPR type Sz5(6 long wire), 415V (FOR MU-G10/10H) | CS94855D000 | 1                | 1010             |

## ON-OFF Plugs [HSN Code 8538]

| Description                   | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------|-------------|------------------|------------------|
| Spare plug MU-G6 (Bulk of 10) | ST155910000 | 1                | 110              |
| Spare plug MU-10 (Bulk of 10) | ST155920000 | 1                | 120              |
| Spare plug MU-15 (Bulk of 10) | ST155930000 | 1                | 130              |
| Spare plug MU-20 (Bulk of 10) | ST155940000 | 1                | 135              |
| Spare plug MU-30 (Bulk of 10) | ST155950000 | 1                | 140              |
| Spare plug MU-50 (Bulk of 10) | ST155960000 | 1                | 145              |
| Spare plug MU-75 (Bulk of 10) | ST155970000 | 1                | 145              |

## Electronic Star-Delta Timer [HSN Code 9107]

| Description                                                          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------------------------------------|-------------|------------------|------------------|
| Electronic Star-Delta Timer type ST100<br>160 - 500V, for 3 - 30 sec | ST803280000 | 1                | 1960             |

Note: ST100 supplied with mounting kit, suitable for ET100 replacement.

# SMART Controller



With in-built  
short-circuit  
protection device



LTLK  
Connect App



Product  
videos

## Features:

- In-built Theft protection, gives emergency alert to your mobile when someone steals your pump, cable or controller
- With Dry Run, Locked Rotor and Short Circuit protection (Inbuilt LTLK MCB & MCCB)
- Voltage and current based protection for all faults with individual protection Enable/Disable feature
- Inbuilt hour based and Real Time Clock based timers with time compensation feature
- With Line Voltage, Phase Current, Power Factor, Power, Energy metering and total run time information for your pump
- Complete operation (Remote ON/OFF, parameter setting, monitoring and troubleshooting) through SMS or LTLK Connect Mobile App or IVRS
- Available in Hindi, Gujarati, Marathi, Tamil, Telugu, Kannada, Malayalam, Bengali, Oriya, Punjabi and English languages with different language selection for individual users
- Microcontroller based technology
- Easy installation with factory fitted complete wiring and terminal block, need to connect only the supply and motor wires

## MU-G6S SMART Controller DOL [HSN Code 8536]



SMART Controller DOL  
MU-G6S

| Suitable Region | IVRS Languages                             | Type   | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                        |                       | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|--------|----------------------------------------|-----------------|---------------------------------|-----------------------|------------------|------------------|
|                 |                                            |        |                                        |                 | Coil Voltage 360V-W (200V-400V) | Coil Voltage 400/440V |                  |                  |
| Central         | English, Hindi, Kannada, Telugu, Punjabi   | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CCDO                     | CS91206PCDO           | 1                | 19330            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CSDO                     | CS91206PSDO           | 1                | 19330            |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CNDO                     | CS91206PNDO           | 1                | 19330            |
| East            | English, Hindi, Odia, Assamese, Bengali    | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CEDO                     | CS91206PEDO           | 1                | 19330            |

## MU-G10S & MU-G10HS SMART Controller DOL [HSN Code 8536]



MU-G10S

| Suitable Region | IVRS Languages                             | Type     | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|----------|----------------------------------------|-----------------|-------------------|-------------------|------------------|------------------|
|                 |                                            |          |                                        |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                  |
| Central         | English, Hindi, Kannada, Telugu, Punjabi   | MU-G10S  | 10                                     | 4 - 22          | CS91205CCDO       | CS91205DCDO       | 1                | 20460            |
|                 |                                            | MU-G10HS | 10                                     | 20 - 42         | CS91207CCFO       | CS91207DCFO       | 1                | 21590            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G10S  | 10                                     | 4 - 22          | CS91205CSDO       | CS91205DSDO       | 1                | 20460            |
|                 |                                            | MU-G10HS | 10                                     | 20 - 42         | CS91207CSFO       | CS91207DSFO       | 1                | 21590            |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G10S  | 10                                     | 4 - 22          | CS91205CNDO       | CS91205DNDO       | 1                | 20460            |
|                 |                                            | MU-G10HS | 10                                     | 20 - 42         | CS91207CNFO       | CS91207DNFO       | 1                | 21590            |
| East            | English, Hindi, Odia, Assamese, Bengali    | MU-G10S  | 10                                     | 4 - 22          | CS91205CEDO       | CS91205DEDO       | 1                | 20460            |
|                 |                                            | MU-G10HS | 10                                     | 20 - 42         | CS91207CEFO       | CS91207DEFO       | 1                | 21590            |

## MU-G15S SMART Controller FASD [HSN Code 8536]



MU-G15S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                       |                       | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|--------------------------------|-----------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 360-W (200V-400V) | Coil Voltage 400/440V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CNDO                    | CS91529PNDO           | 1                | 26085            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CSDO                    | CS91529PSDO           | 1                | 26085            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CEDO                    | CS91529PEDO           | 1                | 26085            |



# SMART Controller



With in-built short-circuit protection device



MU-G15HS

## MU-G15HS SMART Controller FASD [HSN Code 8536]

| Suitable Region | IVRS Languages                             | Type     | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.                       |                       | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|----------|----------------------------------------|-----------------|--------------------------------|-----------------------|------------------|------------------|
|                 |                                            |          |                                        |                 | Coil Voltage 360-W (200V-400V) | Coil Voltage 400/440V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CNEO                    | CS91530PNEO           | 1                | 29590            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CSEO                    | CS91530PSEO           | 1                | 29590            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CEEO                    | CS91530PEEO           | 1                | 29590            |



MU-G20S

## MU-G20S SMART Controller FASD [HSN Code 8536]

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.           |                    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|--------------------|--------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 360 V | Coil Voltage 415 V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CNDO        | CS91531DNDO        | 1                | 28740            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CSDO        | CS91531DSDO        | 1                | 28740            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CEDO        | CS91531DEDO        | 1                | 28740            |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CNEO        | CS91531DNEO        | 1                | 32345            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CSEO        | CS91531DSEO        | 1                | 32345            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CEEO        | CS91531DEEO        | 1                | 32345            |



MU-G20HS

## MU-G20HS SMART Controller FASD [HSN Code 8536]

| Suitable Region | IVRS Languages                             | Type     | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.           |                    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|----------|----------------------------------------|-----------------|--------------------|--------------------|------------------|------------------|
|                 |                                            |          |                                        |                 | Coil Voltage 360 V | Coil Voltage 415 V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CNFO        | CS91532DNFO        | 1                | 37650            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CSFO        | CS91532DSFO        | 1                | 37650            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CEFO        | CS91532DEFO        | 1                | 37650            |



MU-G25S

## MU-G25S SMART Controller FASD [HSN Code 8536]

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.           |                    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|--------------------|--------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 360 V | Coil Voltage 415 V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CNFO        | CS91533DNFO        | 1                | 40195            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CSFO        | CS91533DSFO        | 1                | 40195            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CEFO        | CS91533DEFO        | 1                | 40195            |

# SMART Controller



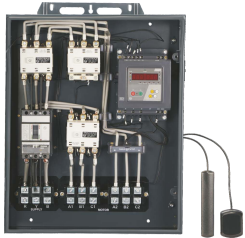
## MU-G30S SMART Controller FASD [HSN Code 8536]



MU-G30S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LNGO       | 1                | 53445            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LSGO       | 1                | 53445            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LEGO       | 1                | 53445            |

## MU-G40S SMART Controller FASD [HSN Code 8536]



MU-G40S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LNTO       | 1                | 60940            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LSTO       | 1                | 60940            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LETO       | 1                | 60940            |

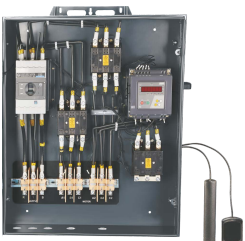
## MU-G50S SMART Controller FASD [HSN Code 8536]



MU-G50S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LNJO       | 1                | 88360            |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LSJO       | 1                | 88360            |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LEJO       | 1                | 88360            |

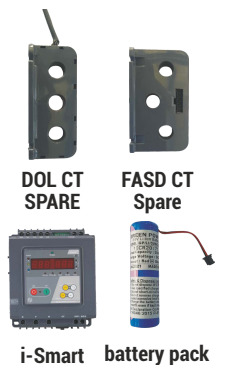
## MU-G75S SMART Controller FASD [HSN Code 8536]



MU-G75S

| Suitable Region | IVRS Languages                             | Type    | Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-----------------|--------------------------------------------|---------|----------------------------------------|-----------------|-------------------|------------------|------------------|
|                 |                                            |         |                                        |                 | Coil Voltage 380V |                  |                  |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LNKO       | 1                | 112350           |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LSKO       | 1                | 112350           |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LEKO       | 1                | 112350           |

## SMART Controller Spares [HSN Code 8538]



DOL CT SPARE

FASD CT Spare

i-Smart battery pack

| Description                                 | Cat. No.    | Std.Pkg.(Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------|-------------|----------------|------------------|
| i-Smart for DOL without WLC                 | CS914130*00 | 1              | 16180            |
| i-Smart for FASD without WLC(upto 25HP)     | CS914140*00 | 1              | 20300            |
| i-Smart for FASD without WLC (30-75HP)      | CS914150*00 | 1              | 24380            |
| Spare CT Assembly DOL (And FASD Upto 25 HP) | CS910950000 | 1              | 1590             |
| Spare CT Assembly FASD 30-75 HP             | CS916480000 | 1              | 2295             |
| Spare Battery Pack                          | CS914170000 | 1              | 1280             |

**Note:** Please write S for South, N for North and E for East language variants in place of \* in the i-Smart ordering CAT No.



# New WLC: SzLC Series

## Simplifying water control challenges



Settable Off-timer  
ranging from  
15-150 minutes



Power On  
Delay Timer-  
3-30 seconds



Application  
-Single &  
Double Tank



Use for Single Phase  
Monoset and  
Submersible Pump  
upto 3 HP and for  
Three Phase  
Submersible Pump



Auto/Manual/  
Bypass operating  
mode available\*



LED  
Indication



\*AUTO/ON/OFF - SzLC  
AUTO/MANUAL/BYPASS - SzLC1 & SzLC3



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# Single Phase Starters

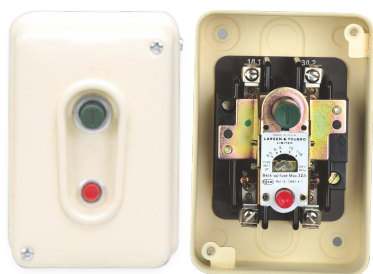


## MU-2P Single Phase Starters [HSN Code 8536]



MU-2P DOL Starter

| Suitable for Pump/Motor 1Ø, 230V, 50Hz | Relay Range (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------|-----------------|-------------|------------------|-------------------|
| 0.125 HP                               | 1 - 1.6         | CS90319KOM0 | 1                | 2440              |
| 0.25 HP                                | 1.5 - 2.5       | CS90319KOPO | 1                | 2440              |
| 0.5 HP                                 | 2.5 - 4         | CS90319KORO | 1                | 2440              |
| 0.75 HP                                | 4 - 6.5         | CS90319KOTO | 1                | 2440              |
| 1 HP                                   | 6 - 10          | CS90319KOVO | 1                | 2440              |
| 2 HP                                   | 9 - 14          | CS90319KOA0 | 1                | 2440              |
| 2 HP                                   | 11 - 18         | CS90319KOCO | 1                | 2455              |
| 3 HP                                   | 13 - 22         | CS90319KODO | 1                | 2485              |



MF1 DOL - 1Ø Starter

## MF1 Single Phase Starters [HSN Code 8536]

| Suitable for Pump/Motor 1Ø, 230V, 50Hz | Relay Range (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------|-----------------|-------------|------------------|-------------------|
| 0.75 HP                                | 4.5 - 7         | SS97227OOTO | 1                | 1740              |
| 1.25 HP                                | 6.5 - 11        | SS97227OOVO | 1                | 1740              |
| 2 HP                                   | 10.5 - 17.5     | SS97227OOBO | 1                | 1740              |
| 3 HP                                   | 12 - 20         | SS97227OOCO | 1                | 1740              |

# MF-G1 Single Phase Submersible Pump Controllers

## MF-G1 Controller [HSN Code 8536]

| Starter Type                     | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Relay Range (A) | Cat. No.                                  | Run Condenser 440V, 50Hz MFD | M.R.P. ₹ Per Unit |
|----------------------------------|---------------------------------------------------|-----------------|-------------------------------------------|------------------------------|-------------------|
| MF-G1 with Ammeter and Voltmeter | 0.5 HP                                            | 6.5 - 11        | SS9772800VE                               | 1 x 36                       | 3880              |
| MF-G1 with Ammeter Only          | 0.5 HP                                            | 6.5 - 11        | SS9773400VC                               | 1 x 25                       | 3565              |
| MF-G1 with Ammeter and Voltmeter | 1 HP                                              | 6.5 - 11        | SS9773000VE<br>SS9773000VG                | 1 x 36<br>1 x 50             | 4045              |
| MF-G1 with Ammeter Only          | 1 HP                                              | 6.5 - 11        | SS9773600VE<br>SS9773600VG                | 1 x 36<br>1 x 50             | 3725              |
| MF-G1 with Ammeter and Voltmeter | 1 HP                                              | 12 - 20         | SS9773000CE<br>SS9773000CG                | 1 x 36<br>1 x 50             | 4045              |
| MF-G1 with Ammeter Only          | 1 HP                                              | 12 - 20         | SS9773600CE<br>SS9773600CG                | 1 x 36<br>1 x 50             | 3725              |
| MF-G1 with Ammeter and Voltmeter | 1.5 HP                                            | 6.5 - 11        | SS9773100VG<br>SS9773100VF                | 1 x 50<br>2 x 36             | 4170              |
| MF-G1 with Ammeter Only          | 1.5 HP                                            | 6.5 - 11        | SS9773700VF                               | 2 x 36                       | 3855              |
| MF-G1 with Ammeter and Voltmeter | 1.5 HP                                            | 12 - 20         | SS9773100CG<br>SS9773100CF                | 1 x 50<br>2 x 36             | 4170              |
| MF-G1 with Ammeter Only          | 1.5 HP                                            | 12 - 20         | SS9773700CG<br>SS9773700CF                | 1 x 50<br>2 x 36             | 3855              |
| MF-G1 with Ammeter and Voltmeter | 2 HP                                              | 12 - 20         | SS9773200CG<br>SS9773200CF                | 1 x 50<br>2 x 36             | 4245              |
| MF-G1 with Ammeter Only          | 2 HP                                              | 12 - 20         | SS9773800CG<br>SS9773800CF<br>SS9773800CH | 1 x 50<br>2 x 36<br>2 x 50   | 3910              |





# MR-G2 / MR-G3 Single Phase Submersible Pump Controller



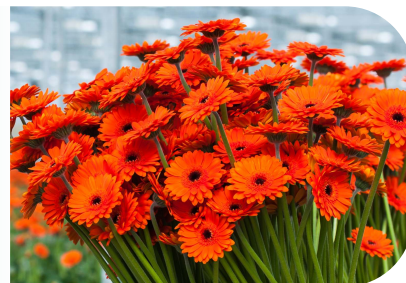
With  
MU-2P Contactor  
& MU-2P Relay



## MR-G2 / MR-G3 Controller [HSN Code 8536]

| Type  | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | With Ammeter & Voltmeter | With Ammeter Only | M.R.P ₹ Per Unit |
|-------|---------------------------------------------------|-------------|-----------------|----------------------------|------------------------------|--------------------------|-------------------|------------------|
| MR-G2 | 0.5 HP                                            | SS97720BATC | 4 - 6.5         | 80 / 100                   | 1 x 25                       | Yes                      | -                 | 4660             |
|       |                                                   | SS97720BAVC | 6 - 10          | 80 / 100                   | 1 x 25                       |                          |                   |                  |
|       |                                                   | SS97720BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96988BATC | 4 - 6.5         | 80 / 100                   | 1 x 25                       | -                        | Yes               | 4440             |
|       |                                                   | SS96988BAVC | 6 - 10          | 80 / 100                   | 1 x 25                       |                          |                   |                  |
|       |                                                   | SS96988BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       |                          |                   |                  |
|       | 1 HP                                              | SS97721BBVE | 6 - 10          | 100/120                    | 1 x 36                       | Yes                      | -                 | 5075             |
|       |                                                   | SS97721BBVG | 6 - 10          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97721BCVE | 6 - 10          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS97721BCVG | 6 - 10          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97721BBAE | 9 - 14          | 100 / 120                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS97721BBAG | 9 - 14          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97721BCAE | 9 - 14          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS97721BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BBVE | 6 - 10          | 100 / 120                  | 1 x 36                       | -                        | Yes               | 4830             |
|       |                                                   | SS96560BBVG | 6 - 10          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BCVE | 6 - 10          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BCVG | 6 - 10          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BBAE | 9 - 14          | 100 / 120                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BBAG | 9 - 14          | 100 / 120                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96560BCAE | 9 - 14          | 120 / 150                  | 1 x 36                       |                          |                   |                  |
|       |                                                   | SS96560BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       | 1.5 HP                                            | SS97722BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | Yes                      | -                 | 5470             |
|       |                                                   | SS97722BCAF | 9 - 14          | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BCAJ | 9 - 14          | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97722BDAG | 9 - 14          | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97722BDAF | 9 - 14          | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BDAJ | 9 - 14          | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97722BCCG | 11 - 18         | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97722BCCF | 11 - 18         | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BCCJ | 11 - 18         | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97722BDCG | 11 - 18         | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97722BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97722BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |

# MR-G2 / MR-G3 Single Phase Submersible Pump Controller



## MR-G2 / MR-G3 Controller [HSN Code 8536]

| Type  | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | With Ammeter & Voltmeter | With Ammeter Only | M.R.P ₹ Per Unit |
|-------|---------------------------------------------------|-------------|-----------------|----------------------------|------------------------------|--------------------------|-------------------|------------------|
| MR-G2 | 1.5 HP                                            | SS96989BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | -                        | Yes               | 5270             |
|       |                                                   | SS96989BCAF | 9 - 14          | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BCAJ | 9 - 14          | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96989BDAG | 9 - 14          | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96989BDAF | 9 - 14          | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BDAJ | 9 - 14          | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96989BCCG | 11 - 18         | 120 / 150                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96989BCCF | 11 - 18         | 120 / 150                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BCCJ | 11 - 18         | 120 / 150                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96989BDCG | 11 - 18         | 150 / 200                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96989BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96989BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       | 2 HP                                              | SS97723BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       | Yes                      | -                 | 5750             |
|       |                                                   | SS97723BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97723BECF | 11 - 18         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97723BECJ | 11 - 18         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97723BDDF | 13 - 22         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97723BDDJ | 13 - 22         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS97723BEDF | 13 - 22         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS97723BEDG | 13 - 22         | 200 / 250                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS97723BEDJ | 13 - 22         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       | -                        | Yes               | 5500             |
|       |                                                   | SS96990BDCJ | 11 - 18         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BECF | 11 - 18         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BECJ | 11 - 18         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BDDF | 13 - 22         | 150 / 200                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BDDJ | 13 - 22         | 150 / 200                  | 1 x 72                       |                          |                   |                  |
|       |                                                   | SS96990BEDF | 13 - 22         | 200 / 250                  | 2 x 36                       |                          |                   |                  |
|       |                                                   | SS96990BEDG | 13 - 22         | 200 / 250                  | 1 x 50                       |                          |                   |                  |
|       |                                                   | SS96990BEDJ | 13 - 22         | 200 / 250                  | 1 x 72                       |                          |                   |                  |
|       | 3 HP                                              | SS97724BEDH | 13 - 22         | 200 / 250                  | 2 x 50                       | Yes                      | -                 | 6355             |
|       |                                                   | CS96468BEBH | 16 - 26         | 200 / 250                  | 2 x 50                       | -                        | Yes               | 6030             |
|       |                                                   | SS97725BEDH | 13 - 22         | 200 / 250                  | 2 x 50                       |                          |                   |                  |
|       |                                                   | CS96461BEBH | 16 - 26         | 200 / 250                  | 2 x 50                       |                          |                   |                  |
| MR-G3 | 5 HP                                              | CS90490BEEJ | 20 - 32         | 200 / 250                  | 3 x 50                       | Yes                      | -                 | 9025             |



# MR-G2W Single Phase Submersible Controller (with WLC)



## MR-G2W with in-built WLC (Ammeter & Voltmeter version only): [HSN Code 8536]

| Maximum Submersible Pump Rating at 1F, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|---------------------------------------------------|-------------|-----------------|----------------------------|------------------------------|------------------|
| 0.5HP                                             | CS91040BATC | 4 - 6.5         | 80 / 100                   | 1 x 25                       | 10315            |
|                                                   | CS91040BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       |                  |
| 1HP                                               | CS91041BBVE | 6 - 10          | 100 / 120                  | 1 x 36                       | 10750            |
|                                                   | CS91041BBVG | 6 - 10          | 100 / 120                  | 1 x 50                       |                  |
|                                                   | CS91041BCVE | 6 - 10          | 120 / 150                  | 1 x 36                       |                  |
|                                                   | CS91041BCVG | 6 - 10          | 120 / 150                  | 1 x 50                       |                  |
|                                                   | CS91041BBAE | 9 - 14          | 100 / 120                  | 1 x 36                       |                  |
|                                                   | CS91041BBAG | 9 - 14          | 100 / 120                  | 1 x 50                       |                  |
|                                                   | CS91041BCAE | 9 - 14          | 120 / 150                  | 1 x 36                       |                  |
| 1.5HP                                             | CS91042BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | 11290            |
|                                                   | CS91042BDAG | 9 - 14          | 150 / 200                  | 1 x 50                       |                  |
|                                                   | CS91042BDAF | 9 - 14          | 150 / 200                  | 2 x 36                       |                  |
|                                                   | CS91042BCCF | 11 - 18         | 120 / 150                  | 2 x 36                       |                  |
|                                                   | CS91042BDCG | 11 - 18         | 150 / 200                  | 1 x 50                       |                  |
|                                                   | CS91042BDCF | 11 - 18         | 150 / 200                  | 2 x 36                       |                  |
| 2HP                                               | CS91043BECF | 11 - 18         | 200 / 250                  | 2 x 36                       | 11545            |
|                                                   | CS91043BDDF | 13 - 22         | 150 / 200                  | 2 x 36                       |                  |
|                                                   | CS91043BEDF | 13 - 22         | 200 / 250                  | 2 x 36                       |                  |
|                                                   | CS91043BEDG | 13 - 22         | 200 / 250                  | 1 x 50                       |                  |
| 3HP                                               | CS91044BEDH | 13 - 22         | 200 / 250                  | 2 x 36                       | 11960            |



Interior View of MR-G2W

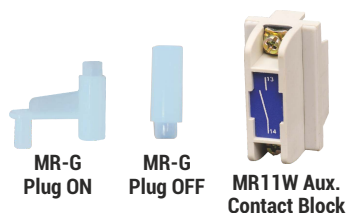
## Water Level Controller [HSN Code 9032]



WLC

| Description                                             | Cat. No.    | Std. Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------------------|-------------|------------------|------------------|
| Water Level Controller (240V)(Double Tank application)  | XM810520000 | 1                | 1400             |
| Water Level Controller (415V)(Double Tank application)  | XM810530000 | 1                | 1400             |
| Water Level Controller (240V) (Single Tank application) | XM810550000 | 1                | 1330             |
| Water Level Controller (415V) (Single Tank application) | XM810560000 | 1                | 1330             |
| WLC probes (set of 3 nos.)                              | XM810510000 | 1                | 465              |
| WLC probes (set of 6 nos.)                              | XM810760000 | 1                | 930              |

# Spares for MR-G Submersible Pump Controller



## MR-G Spares [HSN Code 8538]

| Description                                        | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|----------------------------------------------------|-------------|-----------------|------------------|
| Add on Auxiliary Contact Block (Contact Type 1NO)  | CS941790000 | 10              | 315              |
| MR 11W, Spare Coil, 240V, 50Hz                     | CS94102B000 | 10              | 700              |
| MR-G2 Plug ON & OFF (Bulk of 10 ON & 10 OFF Plugs) | CS916960000 | 1               | 280              |
| SPARE ADD ON BLOCK, MR-G2                          | CS964360000 | 1               | 220              |

## Contactor Type MU - 2P [HSN Code 8536]

| Component         | AC3 Rating | Type                  | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------|------------|-----------------------|-------------|-----------------|------------------|
| MU - 2P Contactor | 16A        | MU 16 - 2P (160-220V) | CS90117N000 | 10              | 990              |
|                   | 25A        | MU 25 - 2P (160-220V) | CS90118N000 | 10              | 1210             |
|                   | 40A        | MU 40 - 2P (160-220V) | CS90119N000 | 10              | 1535             |

## Contactor Type - MR 11W [HSN Code 8536]

| Component          | AC3 Rating | Type    | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|--------------------|------------|---------|-------------|-----------------|------------------|
| MR - 11W Contactor | 25A        | MR 11 W | CS94176B000 | 10              | 1200             |

## MU - 2P Relay [HSN Code 8536]

| Component     | Type       | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------|------------|-------------|-----------------|------------------|
| MU - 2P Relay | 1 - 1.6A   | CS9020700MO | 1               | 715              |
|               | 1.5 - 2.5A | CS9020700PO | 1               | 715              |
|               | 2.5 - 4A   | CS9020700RO | 1               | 715              |
|               | 4 - 6.5A   | CS9020700TO | 1               | 715              |
|               | 6 - 10A    | CS9020700VO | 1               | 715              |
|               | 9 - 14A    | CS9020700AO | 1               | 715              |
|               | 11 - 18A   | CS9020700CO | 1               | 800              |
|               | 13 - 22A   | CS9020700DO | 1               | 800              |
|               | 16 - 26A   | CS9020700BO | 1               | 800              |
|               | 20 - 32A   | CS9020700EO | 1               | 1000             |

## MU - 2P Spares [HSN Code 8538]

| Component                       | Type                    | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------|-------------------------|-------------|-----------------|------------------|
| MU - 2P Spare Contact Kit       | MU 16 - 2P              | CS902170000 | 1               | 290              |
|                                 | MU 25 - 2P              | CS902180000 | 1               | 380              |
|                                 | MU 40 - 2P              | CS902190000 | 1               | 550              |
| MU - 2P Spare Coil & Top Add-on | MU-2P Coil (220V)       | CS90793N000 | 1               | 385              |
|                                 | MU-2P Coil (300V)       | CS90793R000 | 1               | 385              |
|                                 | MU-2P Top Add-on (1 NO) | CS906950000 | 1               | 215              |

## Wiring Harness for MU-G/ MR-G Controllers [HSN Code 8538]

| Description                                                               | Cat. No.    | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|---------------------------------------------------------------------------|-------------|-----------------|------------------|
| Wiring Harness, MU-G6 (Flexible Type)                                     | CS961310000 | 1               | 945              |
| Wiring Harness, MU-G10 (Flexible Type)                                    | CS961300000 | 1               | 1340             |
| Wiring Harness, MU-G10H (Flexible Type)                                   | CS961340000 | 1               | 1745             |
| Wiring Harness, MU-G15 (Flexible Type)                                    | CS905670000 | 1               | 1980             |
| Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)                        | CS961290000 | 1               | 2955             |
| Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)                       | CS961350000 | 1               | 3150             |
| Wiring Harness, MU-G30 (Flexible Type)                                    | CS961280000 | 1               | 3870             |
| Wiring Harness, MU-G50 (Flexible Type)                                    | CS961270000 | 1               | 5500             |
| Wiring Harness, MU-G75 (Flexible Type)                                    | CS901710000 | 1               | 7910             |
| Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay) | CS961330000 | 1               | 1090             |



# MR-Gi Digital Single Phase Controllers - Manual & Auto



## Manual version

## FEATURES

## Auto version



- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- Start & Run Capacitor
- Bypass Feature
- Off Timer
- Digital Display
- Capacitor cut-off
- Automatic Current Setting

- All features of Manual Version
- Inbuilt Water Level Controller
- WLC bypass feature
- Auto start capacitor switching
- Power on delay
- Dry Run auto reset timer
- Auto & Manual mode
- RTC based daily ON/OFF timer
- Timer count down display
- Cyclic timer
- Time Compensation



## MR-Gi (Manual) [HSN Code 8536]

| Type           | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|----------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-Gi (Manual) | 0.5 Hp                                            | CS91321NAOC | 80 / 100                   | 1 x 25                       | 4220             |
|                |                                                   | CS91321NAOE | 80 / 100                   | 1 x 36                       |                  |
|                | 1 Hp                                              | CS91322NBOE | 100 / 120                  | 1 x 36                       | 4440             |
|                |                                                   | CS91322NBOG | 100 / 120                  | 1 x 50                       |                  |
|                |                                                   | CS91322NCOE | 120 / 150                  | 1 x 36                       |                  |
|                |                                                   | CS91322NCOG | 120 / 150                  | 1 x 50                       |                  |
|                | 1.5 Hp                                            | CS91323NCOG | 120 / 150                  | 1 x 50                       | 4650             |
|                |                                                   | CS91323NCOF | 120 / 150                  | 2 x 36                       |                  |
|                |                                                   | CS91323NCOJ | 120 / 150                  | 1 x 72                       |                  |
|                |                                                   | CS91323NDOG | 150 / 200                  | 1 x 50                       |                  |
|                |                                                   | CS91323NDOF | 150 / 200                  | 2 x 36                       |                  |
|                | 2 Hp                                              | CS91324NDOF | 150 / 200                  | 2 x 36                       | 4845             |
|                |                                                   | CS91324NDOH | 150 / 200                  | 2 x 50                       |                  |
|                |                                                   | CS91324NDOJ | 150 / 200                  | 1 x 72                       |                  |
|                |                                                   | CS91324NEOF | 200 / 250                  | 2 x 36                       |                  |
|                |                                                   | CS91324NEOG | 200 / 250                  | 1 x 50                       |                  |
|                |                                                   | CS91324NEOJ | 200 / 250                  | 1 x 72                       |                  |
|                | 3 Hp                                              | CS91325NEOH | 200 / 250                  | 2 x 50                       | 5050             |

## MR-GiB (Auto) [HSN Code 8536]

| Type          | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|---------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-GiB (Auto) | 0.5 Hp                                            | CS91718NAOC | 80 / 100                   | 1 x 25                       | 5300             |
|               |                                                   | CS91718NAOE | 80 / 100                   | 1 x 36                       |                  |
|               | 1 Hp                                              | CS91719NBOE | 100 / 120                  | 1 x 36                       | 5500             |
|               |                                                   | CS91719NBOG | 100 / 120                  | 1 x 50                       |                  |
|               |                                                   | CS91719NCOE | 120 / 150                  | 1 x 36                       |                  |
|               |                                                   | CS91719NCOG | 120 / 150                  | 1 x 50                       |                  |

# MR-Gi Digital Single Phase Controllers - Manual & Auto



## MR-GiB (Auto) [HSN Code 8536]

| Type          | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|---------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-GiB (Auto) | 1.5 Hp                                            | CS91720NCOG | 120 / 150                  | 1 x 50                       | 5695             |
|               |                                                   | CS91720NCOF | 120 / 150                  | 2 x 36                       |                  |
|               |                                                   | CS91720NCOJ | 120 / 150                  | 1 x 72                       |                  |
|               |                                                   | CS91720NDOG | 150 / 200                  | 1 x 50                       |                  |
|               |                                                   | CS91720NDOF | 150 / 200                  | 2 x 36                       |                  |
|               | 2 Hp                                              | CS91721NDOF | 150 / 200                  | 2 x 36                       | 5910             |
|               |                                                   | CS91721NDOH | 150 / 200                  | 2 x 50                       |                  |
|               |                                                   | CS91721NDOJ | 150 / 200                  | 1 x 72                       |                  |
|               |                                                   | CS91721NEOF | 200 / 250                  | 2 x 36                       |                  |
|               |                                                   | CS91721NEOG | 200 / 250                  | 1 x 50                       |                  |
|               | 3 Hp                                              | CS91721NEOJ | 200 / 250                  | 1 x 72                       | 6115             |
|               |                                                   | CS91722NEOH | 200 / 250                  | 2 x 50                       |                  |

## MR-GiA (Auto with WLC) [HSN Code 8536]

| Type                   | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | M.R.P ₹ Per Unit |
|------------------------|---------------------------------------------------|-------------|----------------------------|------------------------------|------------------|
| MR-GiA (Auto with WLC) | 0.5 Hp                                            | CS91331NAOC | 80 / 100                   | 1 x 25                       | 5850             |
|                        |                                                   | CS91331NAOE | 80 / 100                   | 1 x 36                       |                  |
|                        | 1 Hp                                              | CS91332NBOE | 100 / 120                  | 1 x 36                       | 6055             |
|                        |                                                   | CS91332NBOG | 100 / 120                  | 1 x 50                       |                  |
|                        |                                                   | CS91332NCOE | 120 / 150                  | 1 x 36                       |                  |
|                        |                                                   | CS91332NCOG | 120 / 150                  | 1 x 50                       |                  |
|                        | 1.5 Hp                                            | CS91333NCOG | 120 / 150                  | 1 x 50                       | 6255             |
|                        |                                                   | CS91333NCOF | 120 / 150                  | 2 x 36                       |                  |
|                        |                                                   | CS91333NCOJ | 120 / 150                  | 1 x 72                       |                  |
|                        |                                                   | CS91333NDOG | 150 / 200                  | 1 x 50                       |                  |
|                        |                                                   | CS91333NDOF | 150 / 200                  | 2 x 36                       |                  |
|                        | 2 Hp                                              | CS91334NDOF | 150 / 200                  | 2 x 36                       | 6445             |
|                        |                                                   | CS91334NDOH | 150 / 200                  | 2 x 50                       |                  |
|                        |                                                   | CS91334NDOJ | 150 / 200                  | 1 x 72                       |                  |
|                        |                                                   | CS91334NEOF | 200 / 250                  | 2 x 36                       |                  |
|                        |                                                   | CS91334NEOG | 200 / 250                  | 1 x 50                       |                  |
|                        |                                                   | CS91334NEOJ | 200 / 250                  | 1 x 72                       |                  |
|                        | 3 Hp                                              | CS91335NEOH | 200 / 250                  | 2 x 50                       | 6660             |

## Digital Single Phase Controller Spares [HSN Code 8538]



Start Switch Stop Switch



Terminal Block



MR-GiA WLC Spare

| Description                         | Cat. No.     | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|-------------------------------------|--------------|-----------------|------------------|
| Spare start switch (Manual Version) | CS9136300000 | 1               | 245              |
| Spare stop switch (Manual Version)  | CS9136400000 | 1               | 190              |
| Mounting kit accessory              | CS9136500000 | 1               | 145              |
| Spare 5 way terminal block          | CS9136600000 | 1               | 170              |
| Spare 2 way terminal block          | CS9136700000 | 1               | 125              |
| Spare Digital Module Manual         | CS9202500000 | 1               | 3140             |
| Spare Digital Module Auto           | CS9202600000 | 1               | 4285             |

## Digital Single Phase Controller Spares [HSN Code 9032]

| Description      | Cat. No.     | Std.Pkg. (Nos.) | M.R.P ₹ Per Unit |
|------------------|--------------|-----------------|------------------|
| Spare Wlc Module | CS9136800000 | 1               | 1200             |



# LTLK MCB with K-Curve

## Exclusively for Agricultural Pumps



Eliminates  
"fuse wire"  
replacement



Easy to resume  
supply by  
switching



Saves  
replacement,  
time & money



Longer life



Safe to  
operate



Easy to switch  
ON / OFF during  
maintenance

- K-Curve MCB offers effective short circuit protection for submersible pumps
- Available in range : 10A to 125A - 3 Pole & 10A to 32A 2Pole

AGRI CUSTOMER CARE



Scan the QR code  
for any service, complaint,  
installation, or other support

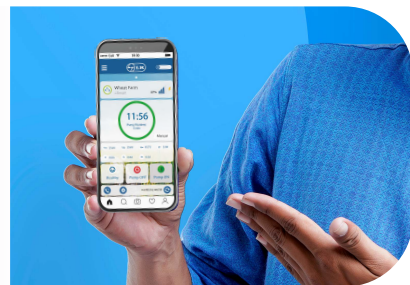
SMARTSHOP



We are now online!  
Scan the QR code to buy



# M-POWER Pro, M-POWER++ & M-POWER+ Module For Mobile Starters



LTLK  
Connect App



Product  
videos

## M-POWER Pro Features

- ◆ Only 3 wire connection ensures easy installation with DOL and Star Delta starters
- ◆ Enables the operation (Remote ON/OFF, parameter setting, monitoring and troubleshooting) of your pump through SMS, IVRS, Call and LTLK Connect Android app, thus provides the convenience in controlling the pump operation from anywhere at anytime
- ◆ Offers protection from phase loss, voltage imbalance, phase reversal, over voltage, under voltage and dry run fault with individual protection Enable/Disable feature.
- ◆ Same unit works for Three Phase DOL and Star Delta starter
- ◆ Hour based and Network based daily timers (4 Time slot) with time compensation
- ◆ Up to 4 users along with 1 master can be connected for controlling your pump operation
- ◆ Auto/Manual/Bypass mode and total run time information for your pump

## M-POWER Pro [HSN Code 8536]

| Suitable Region | IVRS Languages                             | Product     | Cat. No.          |                   |                   | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------------|--------------------------------------------|-------------|-------------------|-------------------|-------------------|------------------|-------------------|
|                 |                                            |             | Coil Voltage 360V | Coil Voltage 380V | Coil Voltage 415V |                  |                   |
| North & West    | English, Hindi, Marathi, Gujarati, Punjabi | M-POWER Pro | CS91313M000       | CS91313L000       | CS913130000       | 1                | 7690              |
| South           | English, Hindi, Kannada, Telugu, Tamil     |             | CS91313M0S0       | CS91313L0S0       | CS9131300S0       | 1                | 7690              |
| East            | English, Hindi, Odia, Assamese, Bengali    |             | CS91313M0E0       | CS91313L0E0       | CS9131300E0       | 1                | 7690              |

**Note:** Different voltage variants of M-POWER Pro are as per the coil voltages of our agri contactors and are to be suitably selected.

## NEW M-POWER++ Features:

- ◆ M-POWER++ is compatible with LTE 4G/ VoLTE. It also supports 2G network.
- ◆ Enables remote operation (Pump ON/OFF) through any GSM networks.
- ◆ It can be operated through Missed Call / IVRS / SMS. Regional languages are available for SMS/IVRS.
- ◆ All events communicated to User by SMS & total pump run time can be checked.
- ◆ Wide range of selection for operating modes like Auto / Manual / Timer (duration based) / 4 Daily Timers (RTC based).
- ◆ Compatible with 1 phase and 3 phase starter & controller (DOL, SASD & FASD).

## M-POWER++ [HSN Code 8538]

| Description                                        | IVRS Languages                             | Suitable Region | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------------|--------------------------------------------|-----------------|-------------|------------------|-------------------|
| M-POWER++ Module for Mobile Starter - 1P/3P 3 Wire | English, Hindi, Marathi, Punjabi, Gujarati | North & West    | CS9214500NO | 1                | 5995              |
|                                                    | English, Hindi, Kannada, Telugu, Tamil     | South           | CS9214500SO | 1                | 5995              |
|                                                    | English, Hindi, Bengali, Odia, Assamese    | East            | CS9214500EO | 1                | 5995              |

## M-POWER+ [HSN Code 8538]

| Description                                       | IVRS Languages                             | Suitable Region | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------------------------------------|--------------------------------------------|-----------------|-------------|------------------|-------------------|
| M-POWER+ Module for Mobile Starter - 1P/3P 3 Wire | English, Hindi, Marathi, Punjabi, Gujarati | North & West    | GSM030100NO | 1                | 4995              |
|                                                   | English, Hindi, Kannada, Telugu, Tamil     | South           | GSM030100SO | 1                | 4995              |
|                                                   | English, Hindi, Bengali, Odia, Assamese    | East            | GSM030100EO | 1                | 4995              |

## M-POWER+ & M-POWER++ Accessories

| Description                         | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------------------------------------|-------------|------------------|-------------------|
| Wire Type Antenna [8538]            | GSM0301A000 | 1                | 510               |
| Controller-side Wire Harness [8544] | GSM0301C000 | 1                | 185               |
| Module-side Wire Harness [8544]     | GSM0301G000 | 1                | 270               |



Controller-side Wire Harness  
& Module-side Wire Harness

Wire Type  
Antenna



# Auto WLC & SASDz5



## NEW Auto WLC

WLC monitors the water level in the tanks and controls the actuation of the motor/pump. The WLC can be used for applications like filling & draining the tank, filling only one tank with dual levels monitoring, draining only one tank with dual level monitoring.

This Auto WLC comes with three variants:

- ◆ SzLC – Used for Single Phase Monoblock & Self Priming Pump (Upto 3HP)
- ◆ SzLC1 – Used for Single Phase Submersible Pump (Upto 3HP)
- ◆ SzLC3 – Used for Three Phase Submersible

## Features



- ◆ Two level detection of water in a tank.
- ◆ One/Two tank monitoring for draining or filling or filling and filling the water
- ◆ High load switching capacity of output up to 30A. (For SzLC & SzLC1)
- ◆ Separate LED indication for water level, power, and relay status.
- ◆ Settable power on delay and OFF timer.
- ◆ Multiple operating modes like AUTO/ ON/ OFF (For SzLC) and AUTO/ MANUAL/ BYPASS (For SzLC1 & SzLC3).
- ◆ Protections against dry run and over filling, means trip against tank emptying and over filling through probe sensing only.

## Auto WLC [HSN Code 9032]

| Description                                                  | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|--------------------------------------------------------------|-------------|-----------------|-------------------|
| Auto WLC, SzLC : For Single Phase Double Tank                | XM810600000 | 1               | 1945              |
| Auto WLC, SzLC1 : For Single Phase (STARTER+CAP) Double Tank | XM810620000 | 1               | 2420              |
| Auto WLC, SzLC : For Single Phase Single Tank                | XM810660000 | 1               | 1875              |
| Auto WLC, SzLC1 : For Single Phase (STARTER+CAP) Single Tank | XM810670000 | 1               | 2350              |
| Auto WLC, SzLC3 : For Three Phase Double Tank                | XM810650000 | 1               | 3185              |
| Auto WLC, SzLC3 : For Three Phase Single Tank                | XM810680000 | 1               | 3110              |

## NEW SASDz5

SASDz5 Auto Switch SPPR is specially designed for the SASD starters. With the help of SASDz5, a Semi-Automatic (SASD) Starter can be converted into Fully Automatic (FASD) Starters. This SASDz5 is compatible with both two-button SASD starters (Start and Stop button) and three-button SASD starter (Start, Run and Stop button).



## Features

- ◆ Auto / Manual / OFF Mode (Bypass)
- ◆ Phase loss, phase reversal, voltage unbalance, over voltage protection
- ◆ On delay timer and star delta timer
- ◆ LED indications for all voltage faults
- ◆ Compatible with all types of Semi-automatic Star-Delta (SASD) starters
- ◆ Easy connection

## SASDz5 [HSN Code 9032]

| Description                                        | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------------|-------------|-----------------|-------------------|
| SASDz5, AUTO SWITCH SPPR FOR 2 BUTTON SASD STARTER | XM818100000 | 1               | 1545              |
| SASDz5, AUTO SWITCH SPPR FOR 3 BUTTON SASD STARTER | XM818110000 | 1               | 1545              |

# i-PROTECTOR



Now with dedicated and separate buttons for Dry Run threshold & Dry Run reset delay



**i -VDSM**

## Features

- ◆ Micro-controller based protection design
- ◆ Digital Ammeter and Voltmeter in select variants
- ◆ Auto/Manual/Bypass Mode available
- ◆ Suitable for all starters - upto 40A
- ◆ Protections available - Voltage Single Phasing, Current Single Phasing, Voltage unbalance fault from supply side, Current unbalance fault from motor side, Phase reversal fault, Under voltage fault, Overvoltage fault
- ◆ Dry-run fault protection (With adjustable current setting and adjustable reset time)

## Recommended i-PROTECTOR for our starters:

| Product        | DOL             |                        |           |                     |         |                             | Star - Delta                 |           |           |                           |          |                             |
|----------------|-----------------|------------------------|-----------|---------------------|---------|-----------------------------|------------------------------|-----------|-----------|---------------------------|----------|-----------------------------|
|                | 3-Phase Starter |                        |           | 3- Phase Controller |         |                             | 3-Phase SASD / FASD Starters |           |           | 3-Phase Controller (FASD) |          |                             |
|                | MK1 / MK2       | MU1 / MU1H / MU2 / MU3 | MB1 / MB2 | MU-G6               | MU-G7.5 | MU-G10 / MU-G10H / MU-G10HN | MK1                          | MU1 / MU2 | MB1 / MB2 | MU-G15                    | MU-G17.5 | MU-G20 / MU-G20H / MU-G20HN |
| <b>i -ADSM</b> | ✓               | ✓                      | ✓         | ✓*                  | ✓*      | ✓*                          | ✓                            | ✓         | ✗         | ✓*                        | ✓*       | ✓*                          |
| <b>i -VDSM</b> | ✓               | ✓                      | ✓         | ✓*                  | ✓*      | ✓*                          | ✓                            | ✓         | ✗         | ✓*                        | ✓*       | ✓*                          |

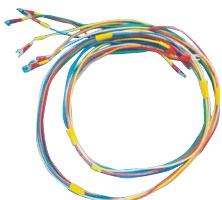
\* **Note:** MU-G Controller is provided with Sz5 /Sdz5. In case of upgradation, use *i*-ADSM, *i*-VDSM in place of SPPR

✓ **Note:** *i*-PROTECTOR is compatible with the mentioned starter

## i-PROTECTOR [HSN Code 8536]

| Product Designation | Product Details                                                                | 360 V       | 415 V       | Std. Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|---------------------|--------------------------------------------------------------------------------|-------------|-------------|------------------|-------------------|
| <i>i</i> -ADSM      | Single phasing preventer & dry run protection relay + VI meter (current based) | CS90863C000 | CS90863D000 | 1                | 3595              |
| <i>i</i> -VDSM      | Single phasing preventer & dry run protection relay + VI meter (voltage based) | CS90875C000 | CS90875D000 | 1                | 3595              |

**Note:** Different voltage variants of *i*-PROTECTOR are as per the coil voltages of our Agri contactors and are to be suitably selected.



## WIRE HARNESSES FOR i-PROTECTOR [HSN Code 8544]

| Description                                  | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|----------------------------------------------|-------------|-----------------|-------------------|
| Wire Harness, <i>i</i> -ADSM, <i>i</i> -VDSM | CS916350000 | 1               | 370               |



# LTLK MCB with K-Curve

## Exclusively for Agricultural Pumps



### MCB Selection for Controllers

| 2 Pole  |             |                | 3 Pole  |             |                |
|---------|-------------|----------------|---------|-------------|----------------|
| Product | Relay Range | MCB Rating (A) | Product | Relay Range | MCB Rating (A) |
| MR-G2   | 4-6.5       | 10             | MU-G6   | 4-6.5       | 10             |
|         | 06-10       | 10             |         | 06-10       | 10             |
|         | 09-14       | 16             |         | 09-14       | 16             |
|         | 10-18       | 20             | MU-G10  | 4-6.5       | 10             |
|         | 13-22       | 25             |         | 06-10       | 10             |
| MR-G3   | 16-26       | 32             |         | 09-14       | 16             |
|         | 20-32       | 32             |         | 13-21       | 25             |
|         |             |                | MU-G10H | 20-32       | 32             |
|         |             |                |         | 28-42       | 50             |
|         |             |                | MU-G20  | 09-14       | 40             |
|         |             |                |         | 13-21       | 50             |
|         |             |                | MU-G20H | 20-32       | 100            |
|         |             |                |         | 28-42       | 125            |

### Features

- ◆ Range available from 6A to 125A - 3 Pole and 6A to 50A - 2 Pole
- ◆ Specially designed MCBs with K-Curve
  - Short circuit tripping band suitable for submersible pumps
  - Offers effective short circuit protection
- ◆ Rated Voltage: 240V & 415V AC
- ◆ Breaking Capacity
  - 10kA as per IEC 60947-2 up to 63A
  - 15kA as per IEC 60947-2 up to 100A-125A
- ◆ Distinct advantages over rewirable fuse



### MCB CAT NOS. & Ratings [HSN Code 8536]



| MCB Pole | Cat. No. | MCB Rating (A) | Module 1Mod=17.5mm | Std. Pkg. (Nos.)* | M.R.P. ₹ Per Unit |
|----------|----------|----------------|--------------------|-------------------|-------------------|
| 2 - Pole | LK20100K | 10             | 2                  | 6                 | 855               |
|          | LK20160K | 16             | 2                  | 6                 | 855               |
|          | LK20200K | 20             | 2                  | 6                 | 855               |
|          | LK20250K | 25             | 2                  | 6                 | 855               |
|          | LK20320K | 32             | 2                  | 6                 | 855               |



| MCB Pole | Cat. No. | MCB Rating (A) | Module 1Mod=17.5mm | Std. Pkg. (Nos.)* | M.R.P. ₹ Per Unit |
|----------|----------|----------------|--------------------|-------------------|-------------------|
| 3 - Pole | LK30100K | 10             | 3                  | 4                 | 1375              |
|          | LK30160K | 16             | 3                  | 4                 | 1375              |
|          | LK30200K | 20             | 3                  | 4                 | 1375              |
|          | LK30250K | 25             | 3                  | 4                 | 1375              |
|          | LK30320K | 32             | 3                  | 4                 | 1375              |
|          | LK30400K | 40             | 3                  | 4                 | 2110              |
|          | LK30500K | 50             | 3                  | 4                 | 2110              |
|          | LK30630K | 63             | 3                  | 4                 | 2110              |
|          | LK31000K | 100            | 4.5                | 1                 | 8825              |
|          | LK31250K | 125            | 4.5                | 1                 | 9805              |

Note: \* Includes DIN channel & hardware for individual MCB up to 63A.

## Upcoming MCB

### MCB CAT NOS. & Ratings [HSN Code 8536]

| MCB Pole | Cat. No. | MCB Rating (A) | Module 1Mod=17.5mm | Std. Pkg. (Nos.)* |
|----------|----------|----------------|--------------------|-------------------|
| 1 - Pole | LK10100K | 10             | 1                  | 12                |
|          | LK10160K | 16             | 1                  | 12                |
|          | LK10250K | 25             | 1                  | 12                |
|          | LK10320K | 32             | 1                  | 12                |

# DY125U MCCB

## For your Pump Applications



NEW



### Features

- ◆ Conforms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2
- ◆ Range: 25A to 100A, 3P, 415V AC
- ◆ Breaking capacity Icu -10kA (Ics=100% Icu)
- ◆ High Electrical & Mechanical life
- ◆ Thermal Magnetic Release
- ◆ No Load-Line Bias
- ◆ ON-TRIP-OFF indication
- ◆ Suitable for Isolation
- ◆ Rated insulation voltage (Ui) - 800VAC
- ◆ Rated impulse withstand voltage (Uimp)-8kV
- ◆ CE Marking

### MCCB Cat Nos. & Ratings [HSN Code 8536]

| Type   | Poles | Current Rating (A) | Breaking Capacity Icu (kA)                                                | Cat. No.    | Description                            | M.R.P. ₹ Per Unit |
|--------|-------|--------------------|---------------------------------------------------------------------------|-------------|----------------------------------------|-------------------|
| DY125U | 3P    | 25                 | AC: 10kA@ 415V AC,<br>50 Hz/60 Hz<br>DC : 10kA@ 250V DC<br>(3P in series) | EM9098300DO | MCCB DY125U 25A 3P 10kA FTFM           | 2290              |
|        |       | 32                 |                                                                           | EM9098300EO | MCCB DY125U 32A 3P 10KA FTFM           | 2290              |
|        |       | 40                 |                                                                           | EM9098300FO | MCCB DY125U 40A 3P 10KA FTFM           | 2290              |
|        |       | 50                 |                                                                           | EM9098300GO | MCCB DY125U 50A 3P 10KA FTFM           | 2290              |
|        |       | 63                 |                                                                           | EM9098300HO | MCCB DY125U 63A 3P 10KA FTFM           | 2220              |
|        |       | 80                 |                                                                           | EM9081300JO | MCCB DY125U 80A 3P 10KA FTFM           | 2220              |
|        |       | 100                |                                                                           | EM9081300KO | MCCB DY125U 100A 3P 10KA FTFM W/O SPRD | 2220              |

## Upcoming Spares

### Spares [HSN Code 8538]

| Description                                                | Cat. No.    |
|------------------------------------------------------------|-------------|
| Terminal Block 30A - 3 way (For MU-G6)                     | XM807500000 |
| Red & Green, Relay Extension Button Kit (For MN 2/5 Relay) | SS949680000 |



# Power Factor Correction Capacitors



## Features:

- ◆ Self-healing property ensures longer life of capacitor
- ◆ Leak proof and high viscous resin construction, hence no leakage or spillage
- ◆ Superior quality Metalized Polypropylene (MPP) film, ingress free construction and low losses ensures capacitance value and longer life of capacitor
- ◆ Metal construction allows natural cooling in ambient
- ◆ Suitable to work on high voltage
- ◆ Improved power factor and low losses ensures optimized cable usage, lesser overheating of motor and hence lesser damage and maintenance



## Power Capacitors suitable for Agricultural Applications Box Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 440V    | LTBCA301B2 | 1               | 235               |
| 2 kVAr    | 440V    | LTBCA302B2 | 1               | 455               |
| 3 kVAr    | 440V    | LTBCA303B2 | 1               | 685               |
| 4 kVAr    | 440V    | LTBCA304B2 | 1               | 915               |
| 5 kVAr    | 440V    | LTBCA305B2 | 1               | 1145              |
| 6 kVAr    | 440V    | LTBCA306B2 | 1               | 1375              |
| 7.5 kVAr  | 440V    | LTBCA307B2 | 1               | 1720              |
| 8.33 kVAr | 440V    | LTBCA308B2 | 1               | 1910              |
| 10 kVAr   | 440V    | LTBCA310B2 | 1               | 2295              |
| 12.5 kVAr | 440V    | LTBCA312B2 | 1               | 2865              |
| 15 kVAr   | 440V    | LTBCA315B2 | 1               | 3435              |
| 20 kVAr   | 440V    | LTBCA320B2 | 1               | 4580              |
| 25 kVAr   | 440V    | LTBCA325B2 | 1               | 5720              |
| 30 kVAr   | 440V    | LTBCA330B2 | 1               | 6855              |

## Cylindrical Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 440V    | LTCCA301B2 | 1               | 195               |
| 2 kVAr    | 440V    | LTCCA302B2 | 1               | 380               |
| 3 kVAr    | 440V    | LTCCA303B2 | 1               | 570               |
| 4 kVAr    | 440V    | LTCCA304B2 | 1               | 765               |
| 5 kVAr    | 440V    | LTCCA305B2 | 1               | 955               |
| 6 kVAr    | 440V    | LTCCA306B2 | 1               | 1145              |
| 7.5 kVAr  | 440V    | LTCCA307B2 | 1               | 1435              |
| 8.33 kVAr | 440V    | LTCCA308B2 | 1               | 1590              |
| 10 kVAr   | 440V    | LTCCA310B2 | 1               | 1910              |
| 12.5 kVAr | 440V    | LTCCA312B2 | 1               | 2375              |
| 15 kVAr   | 440V    | LTCCA315B2 | 1               | 2855              |
| 20 kVAr   | 440V    | LTCCA320B2 | 1               | 3810              |
| 25 kVAr   | 440V    | LTCCA325B2 | 1               | 4750              |
| 30 kVAr   | 440V    | LTCCA330B2 | 1               | 5705              |

## Cylindrical Capacitors with Clamps [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 440V    | LTCCC301B2 | 1               | 220               |
| 2 kVAr    | 440V    | LTCCC302B2 | 1               | 410               |
| 3 kVAr    | 440V    | LTCCC303B2 | 1               | 600               |
| 4 kVAr    | 440V    | LTCCC304B2 | 1               | 795               |
| 5 kVAr    | 440V    | LTCCC305B2 | 1               | 975               |
| 6 kVAr    | 440V    | LTCCC306B2 | 1               | 1175              |
| 7.5 kVAr  | 440V    | LTCCC307B2 | 1               | 1465              |
| 8.33 kVAr | 440V    | LTCCC308B2 | 1               | 1620              |
| 10 kVAr   | 440V    | LTCCC310B2 | 1               | 1935              |
| 15 kVAr   | 440V    | LTCCC315B2 | 1               | 2885              |
| 20 kVAr   | 440V    | LTCCC320B2 | 1               | 3840              |
| 25 kVAr   | 440V    | LTCCC325B2 | 1               | 4785              |
| 30 kVAr   | 440V    | LTCCC330B2 | 1               | 5740              |

# Power Factor Correction Capacitors



## Power Capacitors suitable for Agricultural Applications Box Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 415V    | LTBCA301A2 | 1               | 235               |
| 2 kVAr    | 415V    | LTBCA302A2 | 1               | 455               |
| 3 kVAr    | 415V    | LTBCA303A2 | 1               | 685               |
| 4 kVAr    | 415V    | LTBCA304A2 | 1               | 915               |
| 5 kVAr    | 415V    | LTBCA305A2 | 1               | 1145              |
| 6 kVAr    | 415V    | LTBCA306A2 | 1               | 1375              |
| 7.5 kVAr  | 415V    | LTBCA307A2 | 1               | 1720              |
| 8.33 kVAr | 415V    | LTBCA308A2 | 1               | 1910              |
| 10 kVAr   | 415V    | LTBCA310A2 | 1               | 2295              |
| 12.5 kVAr | 415V    | LTBCA312A2 | 1               | 2865              |
| 15 kVAr   | 415V    | LTBCA315A2 | 1               | 3435              |
| 20 kVAr   | 415V    | LTBCA320A2 | 1               | 4580              |
| 25 kVAr   | 415V    | LTBCA325A2 | 1               | 5720              |
| 30 kVAr   | 415V    | LTBCA330A2 | 1               | 6855              |

## Cylindrical Capacitors [HSN Code 8532]

| Rating    | Voltage | Cat. No.   | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-----------|---------|------------|-----------------|-------------------|
| 1 kVAr    | 415V    | LTCCA301A2 | 1               | 195               |
| 2 kVAr    | 415V    | LTCCA302A2 | 1               | 380               |
| 3 kVAr    | 415V    | LTCCA303A2 | 1               | 570               |
| 4 kVAr    | 415V    | LTCCA304A2 | 1               | 765               |
| 5 kVAr    | 415V    | LTCCA305A2 | 1               | 955               |
| 6 kVAr    | 415V    | LTCCA306A2 | 1               | 1145              |
| 7.5 kVAr  | 415V    | LTCCA307A2 | 1               | 1435              |
| 8.33 kVAr | 415V    | LTCCA308A2 | 1               | 1590              |
| 10 kVAr   | 415V    | LTCCA310A2 | 1               | 1910              |
| 12.5 kVAr | 415V    | LTCCA312A2 | 1               | 2375              |
| 15 kVAr   | 415V    | LTCCA315A2 | 1               | 2855              |
| 20 kVAr   | 415V    | LTCCA320A2 | 1               | 3810              |
| 25 kVAr   | 415V    | LTCCA325A2 | 1               | 4750              |
| 30 kVAr   | 415V    | LTCCA330A2 | 1               | 5705              |

# Capacitor Selection



- ◆ These are only broad guidelines
- ◆ For actual values please contact Motor manufacturer
- ◆ Recommended capacitor ratings for direct connection to induction motors

for direct connection to induction motors to improve power factor to 0.95 or better at all loads kVAr ratings when speed is:

| Motor |       | 3000 rpm         | 1500 rpm         | 1000 rpm         | 750 rpm          | 500 rpm          |
|-------|-------|------------------|------------------|------------------|------------------|------------------|
| HP    | kW    | Capacitor (KVAr) | Capacitor (KVAr) | Capacitor (KVAr) | Capacitor (KVAr) | Capacitor (KVAr) |
| 2.5   | 1.9   | 1                | 1                | 1.5              | 2                | 2.5              |
| 5     | 3.7   | 2                | 2                | 2.5              | 3.5              | 4                |
| 7.5   | 5.6   | 2.5              | 3                | 3.5              | 4.5              | 5.5              |
| 10    | 7.5   | 3                | 4                | 4.5              | 5.5              | 6.5              |
| 15    | 11.2  | 4                | 5                | 6                | 7.5              | 9                |
| 20    | 14.9  | 5                | 6                | 7                | 9                | 12               |
| 25    | 18.7  | 6                | 7                | 9                | 10.5             | 14.5             |
| 30    | 22.4  | 7                | 8                | 10               | 12               | 17               |
| 40    | 29.8  | 9                | 10               | 13               | 15               | 21               |
| 50    | 37.3  | 11               | 12.5             | 16               | 18               | 25               |
| 60    | 44.8  | 13               | 14.5             | 18               | 20               | 28               |
| 70    | 52.2  | 15               | 16.4             | 20               | 22               | 31               |
| 80    | 59.7  | 17               | 19               | 22               | 24               | 34               |
| 90    | 67.1  | 19               | 21               | 24               | 26               | 37               |
| 100   | 74.6  | 21               | 23               | 26               | 28               | 40               |
| 110   | 82.1  | 23               | 25               | 28               | 30               | 43               |
| 120   | 89.5  | 25               | 27               | 30               | 32               | 46               |
| 130   | 97.0  | 27               | 29               | 32               | 34               | 49               |
| 140   | 104.4 | 29               | 31               | 34               | 36               | 52               |
| 145   | 108.2 | 30               | 32               | 35               | 37               | 54               |
| 150   | 111.9 | 31               | 33               | 36               | 38               | 55               |
| 155   | 115.6 | 32               | 34               | 37               | 39               | 56               |
| 160   | 119.4 | 33               | 35               | 38               | 40               | 57               |
| 165   | 123.1 | 34               | 36               | 39               | 41               | 59               |
| 170   | 126.8 | 35               | 37               | 40               | 42               | 60               |
| 175   | 130.6 | 36               | 38               | 41               | 43               | 61               |
| 180   | 134.3 | 37               | 39               | 42               | 44               | 62               |
| 185   | 138.0 | 38               | 40               | 43               | 45               | 63               |
| 190   | 141.7 | 38               | 40               | 43               | 45               | 65               |
| 200   | 149.2 | 40               | 42               | 45               | 47               | 67               |
| 250   | 186.5 | 45               | 50               | 55               | 60               | 70               |



# MFD Capacitors for Single Phase Application



Run MR-G

Start MR-G

Start Spare

Run Spare

## Features:

- ◆ Self-healing property of metalized film ensures longer life of capacitor Oil free dry resin construction, hence no leakage or spillage and no damage to panel
- ◆ Superior quality Metalized Polypropylene (MPP) film, ingress free construction and low losses ensures capacitance value and longer life of capacitor
- ◆ Suitable to work on high voltage
- ◆ High insulation resistance ensures minimum leakage loss
- ◆ Low losses and rated capacitance value ensures trouble free operation and performance of your motor

## Spare Cylindrical Condensers with Wire [HSN Code 8532]

| Type  | Rating  | Voltage | Cat. No.     | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------|---------|---------|--------------|-----------------|-------------------|
| Run   | 10      | 440V    | LTCCMRW010B2 | 21              | 80                |
|       | 12.5    | 440V    | LTCCMRW125B2 | 21              | 95                |
|       | 15      | 440V    | LTCCMRW015B2 | 21              | 120               |
|       | 20      | 440V    | LTCCMRW020B2 | 21              | 140               |
|       | 25      | 440V    | LTCCMRW025B2 | 12              | 150               |
|       | 30      | 440V    | LTCCMRW030B2 | 12              | 160               |
|       | 36      | 440V    | LTCCMRW036B2 | 12              | 170               |
|       | 40      | 440V    | LTCCMRW040B2 | 12              | 215               |
|       | 45      | 440V    | LTCCMRW045B2 | 12              | 240               |
|       | 50      | 440V    | LTCCMRW050B2 | 12              | 250               |
|       | 72      | 440V    | LTCCMRW072B2 | 12              | 325               |
| Start | 80-100  | 275V    | LTCCMSW100P2 | 12              | 240               |
|       | 100-120 | 275V    | LTCCMSW120P2 | 12              | 280               |
|       | 120-150 | 275V    | LTCCMSW150P2 | 12              | 330               |
|       | 150-200 | 275V    | LTCCMSW200P2 | 12              | 375               |
|       | 200-250 | 275V    | LTCCMSW250P2 | 12              | 420               |

## Spare Cylindrical Condensers for MR-G Controllers [HSN Code 8532]

| Type  | Rating  | Voltage | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. ₹ Per Unit |
|-------|---------|---------|-------------|-----------------|-------------------|
| Run   | 25      | 440V    | LTCCMR025B2 | 12              | 175               |
|       | 36      | 440V    | LTCCMR036B2 | 12              | 195               |
|       | 50      | 440V    | LTCCMR050B2 | 12              | 305               |
| Start | 80-100  | 275V    | LTCCMS100P2 | 12              | 280               |
|       | 100-120 | 275V    | LTCCMS120P2 | 12              | 335               |
|       | 120-150 | 275V    | LTCCMS150P2 | 12              | 385               |
|       | 150-200 | 275V    | LTCCMS200P2 | 12              | 445               |
|       | 200-250 | 275V    | LTCCMS250P2 | 12              | 495               |

# Submersible Flat Cable



## Submersible Cables

### Features :

- ◆ 1100V Grade cable with 99.97% pure ETP grade copper
- ◆ With uniform double insulation, no shock hazards, hence safe to use
- ◆ Lesser cable resistance, hence negligible voltage drop in cable ensures appropriate voltage at motor terminals.



## Submersible Cables (Flat Cables) as per IS694 (Extra Thick Insulation) [HSN Code 8544]

| Nominal Cross Section Area of Conductor (Sq. mm) | Construction Details/ Max Dia (mm) | Current Carrying Capacity at 40°C (A) | Cat. No.      | M.R.P. (₹) Per Meter                            |
|--------------------------------------------------|------------------------------------|---------------------------------------|---------------|-------------------------------------------------|
| 1.5                                              | 22 / 0.3                           | 14                                    | WST0015PECM*. | Please refer Submersible Flat Cables Price List |
| 2.5                                              | 36 / 0.3                           | 18                                    | WST0025PECM*. |                                                 |
| 4                                                | 56 / 0.3                           | 26                                    | WST0040PECM*. |                                                 |
| 6                                                | 84 / 0.3                           | 31                                    | WST0060PECM*. |                                                 |

**Note:** \* 5 for 500 mts & 1 for 1000 mts.

## Submersible Cables (Flat Cables) as per IS694 (Standard Insulation) [HSN Code 8544]

| Nominal Cross Section Area of Conductor (Sq. mm) | Construction Details/ Max Dia (mm) | Current Carrying Capacity at 40°C (A) | Cat. No.      | M.R.P. (₹) Per Meter                            |
|--------------------------------------------------|------------------------------------|---------------------------------------|---------------|-------------------------------------------------|
| 1                                                | 14 / 0.3                           | 11                                    | WS00010PECM*. | Please refer Submersible Flat Cables Price List |
| 1.5                                              | 22 / 0.3                           | 14                                    | WS00015PECM*. |                                                 |
| 2.5                                              | 36 / 0.3                           | 18                                    | WS00025PECM*. |                                                 |
| 4                                                | 56 / 0.3                           | 26                                    | WS00040PECM*. |                                                 |
| 6                                                | 84 / 0.3                           | 31                                    | WS00060PECM*. |                                                 |
| 10                                               | 80 / 0.4                           | 42                                    | WS00100PECM*. |                                                 |
| 16                                               | 126 / 0.4                          | 57                                    | WS00160PECM*. |                                                 |

**Note:** \* 5 for 500 mts & 1 for 1000 mts.

## General Terms

All prices are on maximum retail price basis inclusive of all duties, GST & any other Tax as applicable.

Prices are subject to revision without notice.

## Warranty Policy

All the products listed in the price list carry a warranty, against manufacturing defects for a period of 18\* months from the date of purchase.

Should the product prove to be defective due to faulty workmanship or otherwise, we will remedy the defect or replace the faulty parts or the whole product at our discretion, as soon as possible, free of cost.

The warranty is however subject to the provision of proper usage, efficient maintenance and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. It also does not cover damage to power electronic components like thyristors & IGBTs, which fail predominantly due to over-temperature & over-voltage. The user needs to take adequate precautions to eliminate these conditions. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

## Comprehensive Service Support

L&T Electrical & Automation (E&A) has over five decades of experience in providing after sales service for low voltage distribution system in every type of industry & commercial complex in India

E&A offers the following services, partnering you in your maintenance of low voltage distribution products:

- Regular Maintenance
- Preventive Maintenance Programme
- On Call
- Annual Maintenance Contract
- Product Support for Managing Obsolescence-  
Retrofitting & Upgradation of your switchgear products

\* Proof of purchase to be retained to avail warranty



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