





Good quality products and customer service, continuous improvement in processes, systems and capabilities are the hallmark of leaders in business.

The Electrical Standard Products (ESP) business and New Product Development (NPD) function of L&T Electrical & Automation (E&A) have been awarded the Deming Prize 2019, by JUSE (Union of Japanese Scientists and Engineers), Japan.

The Deming Prize is one of the highest awards on Total Quality Management (TQM) in the globe. It is presented to an organization that has implemented TQM suitable for its management philosophy, scope/type/scale of business and management environment.

The TQM activities of ESP were evaluated for establishment of customer oriented objectives and strategies & top management leadership, suitable utilisation and implementation of TQM, effects obtained regarding business objectives and demonstration of organizational capabilities.

E&A's ESP is the first low voltage switchgear manufacturer in India that has received this recognition.



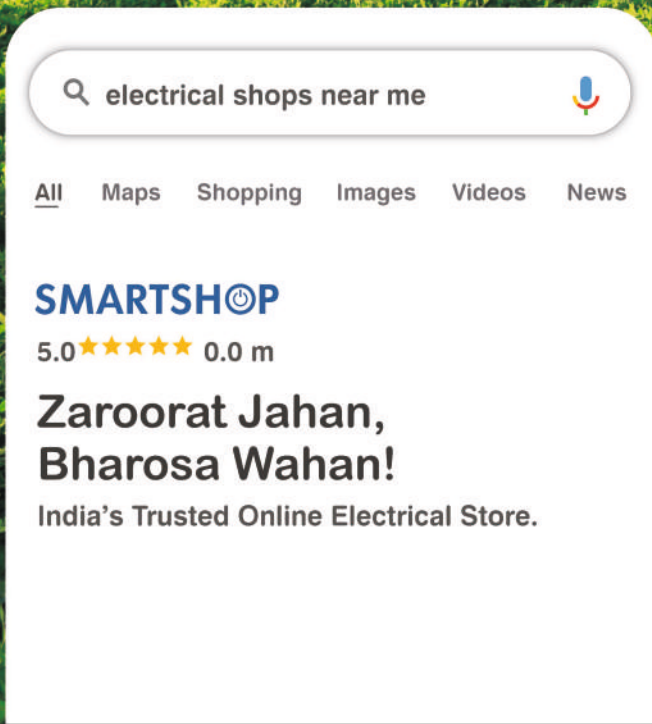
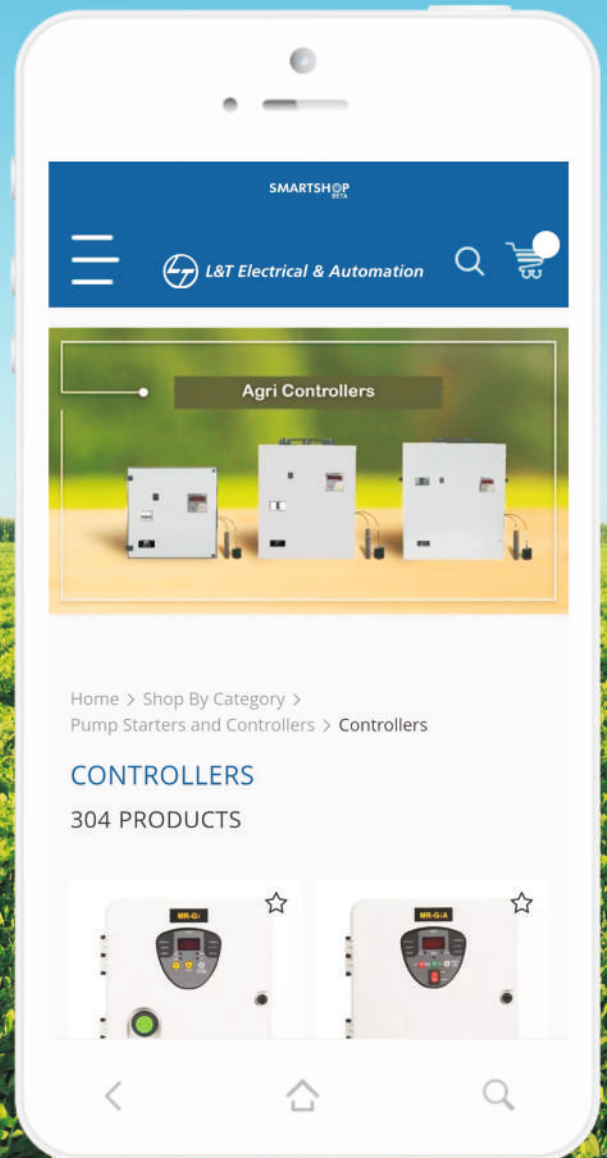


# SMARTSHOP

Shop Smart  
Wherever You Are!  
SmartShop is now Online



Just a Scan Away!



# WE ARE JUST A SCAN AWAY FOR ALL YOUR NEEDS.



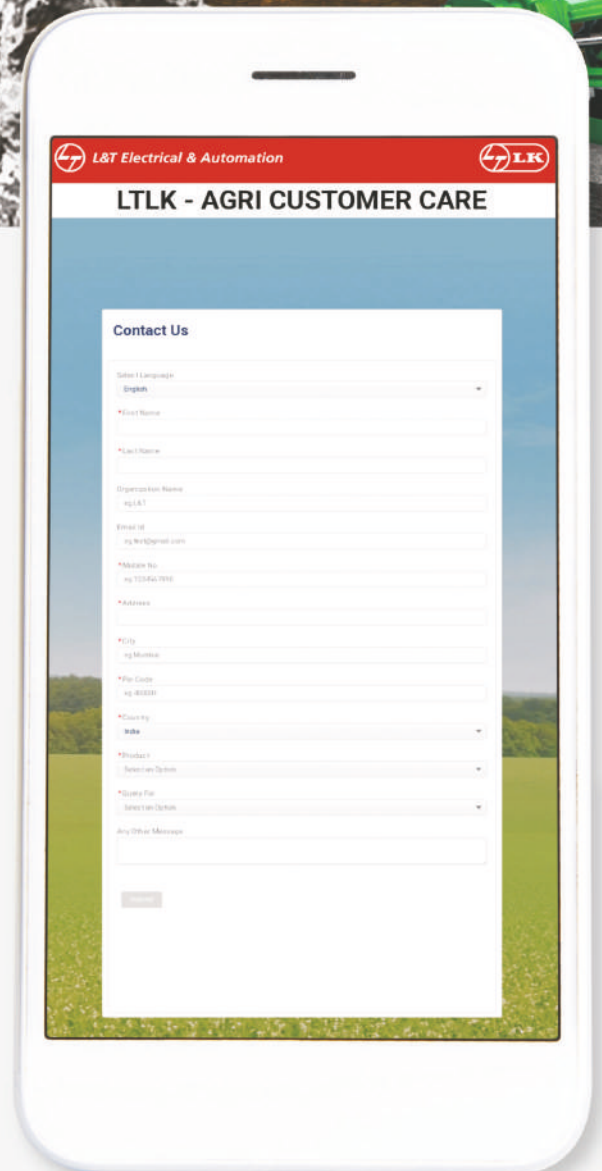
LTLK-AGRI CUSTOMER CARE

**STEP 1** SCAN QR CODE

**STEP 2** SELECT LANGUAGE

**STEP 3** SUBMIT DETAILS

Easily submit your service complaints, demo requests, product information, and other queries.





# LTLK Connect App

Connect Anywhere, Anytime...



**Menu** (hamburger icon)  
**Device type / Name** (WheatF arm)  
**Pump status, Run time** (11:56, Pump Runtime: 3 min)  
**Mode** (Manual)  
**Signal strength of unit** (signal bars)  
**Power** (battery icon)  
**Press here to clear current faults** (red X icon)  
**Error Status / Supply Health** (Healthy)  
**Press here to Call the pump / unit** (phone icon)  
**Press here to access settings** (gear icon)  
**Press here to switch ON / OFF the pump** (PumpOFF, PumpON)  
**Press here to update dashboard** (refresh icon)

**Dashboard** (Settings screen)  
**Click to change individual settings** (Protection screen)  
**Click to update settings** (Protection screen)  
**Click to customize individual facilities** (Facilities screen)  
**Click to update change** (Facilities screen)

One App for SMART Controller, Solar Controller and M-POWER Pro



Convenience of technology at your finger tips for remote operation

AGRI CUSTOMER CARE



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# When It Comes To Her Future, Never Lose Sight Of What's Important!



LTLK Solar Inverter MS-RE Series

From switching on life's important moments to empowering dreams, the **MS-RE Solar Inverter range from E&A** is your partner in ensuring life never stops. Designed for locations having unreliable or limited access to electricity, it delivers continuous and reliable power from solar and grid based on availability so **you never lose sight of what's important to you**



Fast Charging



Smart Battery Management



Intelligent Modes For Solar Prioritization



Saving On Grid Electricity Usage



Compatible With All Battery Types



Automatic No Load Shutdown



Reliable



Alternative To Diesel



Scan the QR code to MS-RE 1



Scan the QR code to MS-RE 2



# DIGITAL SINGLE PHASE CONTROLLER



**Manual version**



**Auto version**

The power of flexibility and versatility

## FEATURES

- 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

- 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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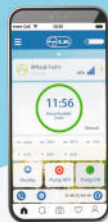
# SMART CONTROLLER DOL & FASD

All-in-One Controller

HP Ratings  
DOL - 6 to 10 HP  
FASD - 15 to 75 HP



Explore the futuristic technology at your fingertips with LTLK Connect App



- ★ Theft protection
- ★ Complete protection
- ★ Remote operation

The SMART Controller is a digital controller with the benefits of short circuit protection (with in-built MCB/MCCB) and the ability to monitor and control pump remotely with a mobile phone

AGRI CUSTOMER CARE

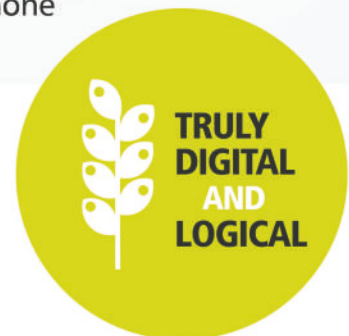


Scan the QR code for any service, complaint or other support

SMARTSHOP



We are now online! Scan the QR code to buy





# INDEX

## Starter

|   |    |
|---|----|
| Offerings & Compositions .....            | 1  |
| MK 1 Starters .....                       | 6  |
| MK 2 Starters .....                       | 8  |
| MU / MB Starters .....                    | 9  |
| ML Starters .....                         | 11 |
| Single Phase / Three Phase Starters ..... | 13 |
| MU-Automatic DOL Starter .....            | 14 |

## Controller

|   |    |
|---|----|
| MF-G1 Single Phase Controller .....   | 14 |
| <b>Digital</b> SMART Controller DOL & FASD (6-75HP) .....                   | 18 |
| MU-G6 / 7.5 / 10 Three Phase Controllers .....                              | 21 |
| MU-G15 / 17.5 / 20 / 25 Three Phase Controllers .....                       | 22 |
| MU-G30 / 40 / 50 / 75 Three Phase Controllers .....                         | 23 |
| MU-G 10W / 20W / 30W Three Phase Controllers .....                          | 24 |
| <b>Digital</b> MR-Gi Digital Single Phase Controllers - Manual & Auto ..... | 26 |
| MR-G2 / MR-G3 Single Phase Controller .....                                 | 28 |
| MR-G2W Single Phase Controller .....  | 30 |

|                                 |    |
|---------------------------------|----|
| <b>NEW</b> Solar Inverter ..... | 33 |
|---------------------------------|----|

## Accessories & Cable

|   |    |
|---|----|
| <b>Digital</b> i-PROTECTOR .....                  | 34 |
| LTLK MCB with K-curve .....                       | 35 |
| <b>Digital</b> M-POWER Pro .....                  | 36 |
| <b>Digital</b> M-POWER+ .....                     | 36 |
| Power Factor Correction Capacitors .....          | 37 |
| MFD Capacitors for Single phase application ..... | 40 |
| Submersible Flat Cable .....                      | 41 |



### \*Remote Operation

All starters and Controllers can be **remotely operated** through **M-POWER Pro** and **M-POWER+**

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 with SPPR |        |       |       |
|  | MK1                          | MK2 | MF1 | MU1 | MU1H | MB1 | MU2 | MB2 | MU3 | ML1.5 | ML2 | MU-1A                       | MU-1HA | MU-2A | MU-3A |
| 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                                  |     |     |     |       |     |     |     |     |  |
|  | MK1                                       | MK2 | MU1 | MB1 | ML1.5 | MU2 | MB2 | ML2 | MU3 |  |
| 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 (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 |
| MK1                             |  | 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   |
| MB1                             |  |                 |         |       |       |      |       | MN2  |       |       |       |       |       |       |       |       |
| MB2                             |  |                 |         |       |       |      |       |      |       |       | MN2   |       |       |       |       |       |
| ML1.5                           |  |                 |         |       |       |      |       |      |       |       | MN2   |       |       |       |       |       |
| ML2                             |  |                 |         |       |       |      | ML2/3 |      |       | ML2/3 |       |       | ML2/3 |       |       |       |
| MU-1A                           |  |                 |         | MU1   | MU1   | MU2  |       |      |       |       |       | MU2   |       |       |       |       |
| MU-1HA                          |  |                 |         |       |       |      |       |      |       |       |       | MU2   |       |       |       |       |
| MU-2A                           |  |                 |         |       |       |      |       |      |       | MU2   |       |       |       |       | MU2   |       |
| MU-3A                           |  |                 |         |       |       |      |       |      |       |       |       |       |       |       | MU2   | MU2   |
| Starter Type                    |  | Contactors 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 |
| MK1                             |  | MK1             | MK1     | MK1   | MK1   | MK1  |       | MK1  |       | MK1   |       |       |       |       |       |       |
| MK2                             |  |                 |         |       |       |      |       |      |       | MK2   |       |       | MK2   |       |       |       |
| MU1                             |  |                 |         |       |       |      | MU1   |      |       | MU1   |       |       | MU1   |       |       |       |
| MU1H                            |  |                 |         |       |       |      |       |      |       |       |       | MU1H  | MU1H  |       |       |       |
| MU2                             |  |                 |         |       |       |      |       |      |       | MU2   |       |       | MU2   |       | MU2   |       |
| MU3                             |  |                 |         |       |       |      |       |      |       |       |       |       |       |       | MU3   | MU3   |
| MB1                             |  |                 |         |       |       |      |       | MU1  |       |       |       |       |       |       |       |       |
| MB2                             |  |                 |         |       |       |      |       |      |       |       | MU1   |       |       |       |       |       |
| ML1.5                           |  |                 |         |       |       |      |       |      |       |       | MU2   |       |       |       |       |       |
| ML2                             |  |                 |         |       |       |      | ML1.5 |      |       | ML1.5 |       |       | ML1.5 |       |       |       |
| MU-1A                           |  |                 |         | 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

| Relay Range (A)<br>Starter Type |  | Relays used     |      |       |      |       |       |       |       |       |       |       |       |
|---------------------------------|--|-----------------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                 |  | 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   |       |       |       |       |       |
| 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 |       |       |
| Starter Type                    |  | Contactors used |      |       |      |       |       |       |       |       |       |       |       |
|                                 |  | 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   |       |       |       |       |       |
| MK2                             |  |                 |      |       |      |       |       | MK2   |       |       | MK2   |       |       |
| MU1                             |  |                 |      | MU1   |      |       |       | MU1   |       |       |       |       |       |
| MU2                             |  |                 |      |       |      |       |       | MU2   |       |       | MU2   |       |       |
| MU3                             |  |                 |      |       |      |       |       |       |       |       |       | MU3   | MU3   |
| MB1                             |  |                 |      |       |      | MU1   |       |       |       | MU1   |       |       |       |
| MB2                             |  |                 |      |       |      |       |       |       | MU2   |       |       |       |       |
| ML1.5                           |  |                 |      | ML2/3 |      |       |       | ML1.5 |       |       | ML1.5 |       |       |
| ML2                             |  |                 |      | ML2/3 |      |       |       | ML2   |       |       | ML2   |       |       |



# Starters and Controllers Offerings & Composition

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

| Relay Range (A) |  | Relays used |       |      |      |       |       |       |       |       |       |       |       |
|-----------------|--|-------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |  | 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 |       |       |       |

| Relay Range (A) |  | Contactors used |       |      |      |       |       |       |       |       |       |       |       |
|-----------------|--|-----------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |  | 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   |       | 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 Three Phase Controllers

| Relay Range (A) |  | Relays 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 |
| 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   |       |       |       |       |       |       |       |        |
| MU-G20          |  |             | MU2  |      |       | MU2   |       |       |       |       |       |       |       |       |       |        |
| MU-G20HN        |  |             |      |      |       |       | MU2   | MU2   |       |       |       |       |       |       |       |        |
| MU-G20H         |  |             |      |      |       |       |       | MU2   |       |       | MU2   |       |       |       |       |        |
| MU-G25          |  |             |      |      |       |       |       |       |       | MU2   | MU2   |       |       |       |       |        |
| MU-G30          |  |             |      |      |       |       |       |       | MN5   |       |       |       |       |       |       |        |
| MUG40           |  |             |      |      |       |       |       |       |       |       |       | MN5   | MN5   |       |       |        |
| MU-G50          |  |             |      |      |       |       |       |       |       |       |       | MN5   |       | MN5   |       |        |
| MU-G75          |  |             |      |      |       |       |       |       |       |       |       |       |       | MN5   | MN5   |        |
| MU-G10W         |  | MU1         | MU1  | MU2  |       | MU2   |       |       |       |       | MU2   |       |       |       |       |        |
| MU-G20W         |  |             |      | MU2  |       | MU2   |       |       |       |       | MU2   |       |       |       |       |        |
| MU-G30W         |  |             |      |      |       |       |       |       |       |       |       | MN5   |       |       |       |        |

# Starters and Controllers Offerings & Composition

## Composition For Three Phase Controllers

| Relay Range (A)<br>Controller Type | Contactors used |      |      |       |       |       |       |       |       |       |       |       |       |       |        | Single Phase 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              |                 |       |       | MU2   |       |       |       |       |       | 50A 3P MCB K Curve                          |
| MU-G15S               | MK1             |       |       |       |       |       |       |       |       | 63A 3P MCB K Curve                          |
| MU-G15HS              |                 | MK2   |       |       |       |       |       |       |       | 100A 3P MCB K Curve                         |
| MU-G20S               | * MU1           | *MU1H |       |       |       |       |       |       |       | *63A 3P MCB K Curve<br>#100A 3P MCB K Curve |
| 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                          |



# MK1 Starters



## MK1 DOL Starters [HSN Code 8536]



Interior View of MK1 DOL

| Suitable for Pump/Motor<br>3Ø, 415V,<br>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                | 2595                |
| 0.5 HP                                       | 1 - 1.6         |                                   | SS96210COMO       | SS96210POMO           | 1                | 2595                |
| 1 HP   | 1.5 - 2.5       |                                   | SS96210COPO       | SS96210POPO           | 1                | 2595                |
| 2 HP   | 2.5 - 4         |                                   | SS96210CORO       | SS96210PORO           | 1                | 2595                |
| 4 HP   | 4 - 6.5         | SS96210SOTO                       | SS96210COTO       | SS96210POTO           | 1                | 2595                |
| 6 HP   | 6 - 10          | SS96210SOVO                       | SS96210COVO       | SS96210POVO           | 1                | 2595                |
| 7.5 HP                                       | 9 - 14          | SS96210SOAO                       | SS96210COAO       | SS96210POAO           | 1                | 2595                |
| 7.5 HP                                       | 11 - 18         | SS96211SOCO                       | SS96211COCO       | SS96211POCO           | 1                | 2662                |
| 7.5 HP                                       | 13 - 22         | SS96228SODO                       | SS96228CODO       | SS96228PODO           | 1                | 2730                |

Note: For Single Phase Starter application, please refer page no. 13

## MK1 SASD Starters [HSN Code 8536]



Interior View of MK1 SASD

| Suitable for Pump/Motor<br>3Ø, 415V,<br>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                | 9375                |
| 10 HP  | 6 - 10          | SS96255COVO       | SS96255POVO       | 1                | 9375                |
| 12.5 / 15 HP                                 | 9 - 14          | SS96255COAO       | SS96255POAO       | 1                | 9375                |
| 15 HP  | 11 - 18         | SS96258COCO       | SS96258POCO       | 1                | 9455                |
| 15 HP  | 13 - 22         | SS96260CODO       | SS96260PODO       | 1                | 9570                |

## MK1 FASD Starters [HSN Code 8536]



Interior View of MK1 FASD

| Suitable for Pump/Motor<br>3Ø, 415V<br>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                | 10345               |
| 10 HP                                       | 6 - 10          | SS96254COVO       | SS96254POVO       | 1                | 10345               |
| 12.5 / 15 HP                                | 9 - 14          | SS96254COAO       | SS96254POAO       | 1                | 10345               |
| 15 HP                                       | 11 - 18         | SS96257COCO       | SS96257POCO       | 1                | 10445               |
| 15 HP                                       | 13 - 22         | SS96259CODO       | SS96259PODO       | 1                | 10505               |

# Spares for MK1 Starters



**MK1 Spares**

## MK1 Spares [HSN Code 8538]

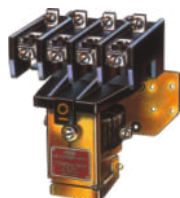
|            | Description                                  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|------------|--|-------------|------------------|---------------------|
| MK1 Spares | Spare kit with hardware (4 sets of contacts) | CS909830000 | 50               | 755                 |
|            | Single moving contact                        | SS910090000 | 10               | 75                  |
|            | Push button unit                             | SS900040000 | 1                | 130                 |
|            | Arc shield                                   | SS500040000 | 1                | 155                 |
|            | Contact bridge without contact               | SS500050000 | 1                | 140                 |
|            | Aux. contact block: 1NO + 1NC                | SS901200000 | 50               | 320                 |
|            | Thermal timer without combination coil       | SS902240000 | 1                | 850                 |
|            | 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               | 270                 |
|                             | 230 / 250V           | SS900450000 | 10               | 270                 |
|                             | 360V                 | SS901650000 | 10               | 270                 |
|                             | 400 / 440V           | SS900470000 | 10               | 270                 |
| Wide Band Coil              | 360V-W (200V - 400V) | SS909930000 | 10               | 300                 |



**MK1 Contactor**

## MK1 Contactors [HSN Code 8536]

|                | Description          | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|----------------|----------------------|-------------|------------------|---------------------|
| MK1 Contactors | 220V                 | SS95200K000 | 10               | 1875                |
|                | 230 / 250V           | SS95200N000 | 10               | 1875                |
|                | 360V                 | SS95200C000 | 10               | 1875                |
|                | 360V-W (200V - 400V) | SS95200S000 | 10               | 1875                |
|                | 400 / 440V           | SS95200P000 | 10               | 1875                |



**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               | 625                 |
|                      | Combination coils for 360V       | SS904460000 | 10               | 625                 |



**MK1 Relay**

## MK1 Relays [HSN Code 8536]

|            | Description | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|------------|-------------|-------------|------------------|---------------------|
| MK1 Relays | 0.6 - 1A    | SS9003500KO | 10               | 1070                |
|            | 1 - 1.6A    | SS9003500MO | 10               | 1070                |
|            | 1.5 - 2.5A  | SS9003500PO | 10               | 1070                |
|            | 2.5 - 4A    | SS9003500RO | 10               | 1070                |
|            | 4 - 6.5A    | SS9003500TO | 10               | 1070                |
|            | 6 - 10A     | SS9003500VO | 10               | 1070                |
|            | 9 - 14A     | SS9003500AO | 10               | 1070                |
|            | 11 - 18A    | SS9003600CO | 10               | 1100                |
| 13 - 22A   | SS9188800DO | 10          | 1215             |                     |



# MK2 Starters



## MK2 DOL Starters [HSN Code 8536]



Interior View of MK2 DOL

| 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-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                        |                           |
| 7.5 HP                                       | 13 - 22               | CS90947SODO                             | CS90947CODO          | CS90947PODO              | 1                      | 3075                      |
| 7.5 HP                                       | 20 - 32               | CS90947SOEO                             | CS90947COEO          | CS90947POEO              | 1                      | 3075                      |

## MK2 SASD Starters [HSN Code 8536]



Interior View of MK2 SASD

| 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-W<br>(200V - 400V) | Coil Voltage<br>360V | Coil Voltage<br>400/440V |                        |                           |
| 15 HP  | 13-22                 | CS91582SODO                             | CS91582CODO          | CS91582PODO              | 1                      | 10405                     |
| 15 HP  | 20-32                 | CS91582SOEO                             | CS91582COEO          | CS91582POEO              | 1                      | 10405                     |

## MK2 FASD Starters [HSN Code 8536]



Interior View of MK2 FASD

| 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>400/440V |                        |                           |
| 15 HP  | 13-22                 | CS91583CODO          | CS91583PODO              | 1                      | 11510                     |
| 15 HP  | 20-32                 | CS91583COEO          | CS91583POEO              | 1                      | 11510                     |

## Spares for MK2 Starters [HSN Code 8538]



MK2 Spares

|            | Description                                  | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. (₹)<br>Per Unit |
|------------|--|-------------|---------------------|------------------------|
| MK2 Spares | Spare kit with hardware (4 sets of contacts) | CS90956O000 | 50                  | 1065                   |
|            | Single moving contact                        | CS90951O000 | 10                  | 100                    |
|            | Push button unit                             | SS90004O000 | 1                   | 130                    |
|            | Arc shield                                   | CS91013O000 | 1                   | 160                    |
|            | Contact bridge without contact               | CS91014O000 | 1                   | 145                    |

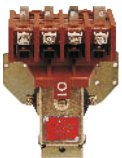
## MK1 / MK2 Coil [HSN Code 8538]



MK1 / MK2 Standard  
Operating Coil

|  | Description          | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. (₹)<br>Per Unit |
|--|----------------------|-------------|---------------------|------------------------|
| MK1 / MK2<br>Standard<br>Operating<br>Coil | 220V                 | SS90044O000 | 10                  | 270                    |
|  | 230 / 250V           | SS90045O000 | 10                  | 270                    |
|  | 360V                 | SS90165O000 | 10                  | 270                    |
|  | 400 / 440V           | SS90047O000 | 10                  | 270                    |
| Wide Band Coil                             | 360V-W (200V - 400V) | SS90993O000 | 10                  | 300                    |

## MK2 Contactors [HSN Code 8536]



MK2 Contactor

|                   | Description          | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. (₹)<br>Per Unit |
|-------------------|----------------------|-------------|---------------------|------------------------|
| MK2<br>Contactors | 360V                 | CS90945COOO | 10                  | 2070                   |
|                   | 360V-W (200V - 400V) | CS90945SOOO | 10                  | 2070                   |
|                   | 400 / 440V           | CS90945POOO | 10                  | 2070                   |

## MK2 Relays [HSN Code 8536]



MK2 Relay

|            | Description | Cat. No.    | Std. Pkg.<br>(Nos.) | M.R.P. (₹)<br>Per Unit |
|------------|-------------|-------------|---------------------|------------------------|
| MK2 Relays | 13 - 22A    | CS90946OODO | 10                  | 1345                   |
|            | 20 - 32A    | CS90946OOEO | 10                  | 1345                   |

# MU / MB Starters



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



Interior View of MU DOL

| Starter 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 |                  |                     |
| MU1 DOL (with MU relay)  | 7.5 HP                                 | 9 - 14          | SS95647COAO       | SS95647DOAO       | 10               | 4350                |
|                          | 10 HP                                  | 13 - 21         | SS95647COCO       | SS95647DOCO       | 10               | 4510                |
|                          | 10 HP                                  | 15 - 25         | SS95647CODO       | SS95647DODO       | 10               | 4600                |
| MU1H DOL (with MU relay) | 10 HP                                  | 15 - 25         | CS90622CODO       | CS90622DODO       | 10               | 4820                |
|                          | 12.5 HP                                | 20 - 32         | CS90622COEO       | CS90622DOEO       | 10               | 5070                |
| MU2 DOL (with MU relay)  | 12.5 HP                                | 13 - 21         | SS95648COCO       | SS95648DOCO       | 10               | 5650                |
|                          | 15 HP                                  | 20 - 32         | SS95648COEO       | SS95648DOEO       | 10               | 6040                |
|                          | 15 HP                                  | 24 - 38         | SS95648COGO       | SS95648DOGO       | 10               | 6190                |
| MU3 DOL (with MU relay)  | 15 HP                                  | 24 - 38         | CS90613COGO       | CS90613DOGO       | 10               | 6870                |
|                          | 17.5 HP                                | 28 - 42         | CS90613COFO       | CS90613DOFO       | 10               | 7130                |
| MB1 DOL (with MN relay)  | 7.5 HP                                 | 9 - 15          | SS95649COBO       | SS95649DOBO       | 8                | 4965                |
|                          | 10 HP                                  | 14 - 23         | SS95649CODO       | SS95649DODO       | 8                | 5070                |
| MB2 DOL (with MN relay)  | 12.5 HP                                | 14 - 23         | SS95650CODO       | SS95650DODO       | 8                | 6780                |
|                          | 15 HP                                  | 20 - 33         | SS95650COEO       | SS95650DOEO       | 8                | 7090                |

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



Interior View of MU SASD

| Starter 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 |                  |                     |
| MU1 SASD (with MU relay) | 12.5 HP                                | 9 - 14          | SS95891COAO       | SS95891DOAO       | 1                | 12115               |
|                          | 15 HP                                  | 13 - 21         | SS95891COCO       | SS95891DOCO       | 1                | 12285               |
| MU2 SASD (with MU relay) | 20 HP                                  | 13 - 21         | SS95893COCO       | SS95893DOCO       | 1                | 15330               |
|                          | 30 HP                                  | 20 - 32         | SS95893COEO       | SS95893DOEO       | 1                | 15700               |
| MU3 SASD (With MU Relay) | 35 HP                                  | 24 - 38         | CS91885COGO       | CS91885DOGO       | 1                | 18900               |
|                          | 35 HP                                  | 28 - 42         | CS91886COFO       | CS91886DOFO       | 1                | 19075               |
| MB1 SASD (with MN relay) | 15 HP                                  | 14 - 23         | SS95895CODO       | SS95895DODO       | 1                | 14600               |
| MB2 SASD (with MN relay) | 20 HP                                  | 14 - 23         | SS95897CODO       | SS95897DODO       | 1                | 17165               |
|                          | 30 HP                                  | 20 - 33         | SS95897COEO       | SS95897DOEO       | 1                | 17575               |

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



Interior View of MU FASD

| Starter 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 |                  |                     |
| MU1 FASD (with MU relay) | 12.5 HP                                | 9 - 14          | SS95890COAO       | SS95890DOAO       | 1                | 13985               |
|                          | 15 HP                                  | 13 - 21         | SS95890COCO       | SS95890DOCO       | 1                | 14130               |
| MU2 FASD (with MU relay) | 20 HP                                  | 13 - 21         | SS95892COCO       | SS95892DOCO       | 1                | 16935               |
|                          | 30 HP                                  | 20 - 32         | SS95892COEO       | SS95892DOEO       | 1                | 17300               |
| MU3 FASD (With MU Relay) | 35 HP                                  | 24 - 38         | CS91887COGO       | CS91887DOGO       | 1                | 20685               |
|                          | 35 HP                                  | 28 - 42         | CS91888COFO       | CS91888DOFO       | 1                | 20865               |
| MB1 FASD (with MN relay) | 12.5 HP                                | 9 - 15          | SS95894COBO       | SS95894DOBO       | 1                | 15470               |
|                          | 15 HP                                  | 14 - 23         | SS95894CODO       | SS95894DODO       | 1                | 15625               |
| MB2 FASD (with MN relay) | 20 HP                                  | 14 - 23         | SS95896CODO       | SS95896DODO       | 1                | 19165               |
|                          | 30 HP                                  | 20 - 33         | SS95896COEO       | SS95896DOEO       | 1                | 19530               |

Note:- MN relay is with single phase prevention feature.

# Spares for MU / MB Starters



MU1 Contactor



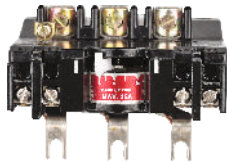
MU1H Contactor



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               | 2750                |
|                |            |            | MU1 415V  | CS94007D000 | 10               | 2750                |
| MU1H Contactor | 20A        | 55A        | MU1H 360V | CS90623C000 | 10               | 2955                |
|                |            |            | MU1H 415V | CS90623D000 | 10               | 2955                |
| MU2 Contactor  | 25A        | 63A        | MU2 360V  | CS94008C000 | 10               | 3920                |
|                |            |            | MU2 415V  | CS94008D000 | 10               | 3920                |
| MU3 Contactor  | 32A        | 63A        | MU3 360V  | CS90609C000 | 10               | 4685                |
|                |            |            | MU3 415V  | CS90609D000 | 10               | 4685                |

## MU Relay [HSN Code 8536]

| Component | Type     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|-----------|----------|-------------|------------------|---------------------|
| MU1 Relay | 4 - 6.5A | SS96557OOTO | 1                | 1370                |
|           | 6 - 10A  | SS96557OOVO | 1                | 1370                |
| MU2 Relay | 9 - 14A  | SS95979OOAO | 1                | 1565                |
|           | 13 - 21A | SS95979OOCO | 1                | 1655                |
|           | 15 - 25A | SS95979OODO | 1                | 1800                |
|           | 20 - 32A | SS95979OOEO | 1                | 2050                |
|           | 24 - 38A | SS95979OOGO | 1                | 2225                |
|           | 28 - 42A | SS95979OOFO | 1                | 2415                |

## MU Contactor Spares [HSN Code 8538]

| Type                              | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|-----------------------------------|-------------|------------------|---------------------|
| MU1 contact bridge                | CS94994O000 | 10               | 165                 |
| MU1H contact bridge               | CS91099O000 | 10               | 165                 |
| MU2 contact bridge                | CS94994O000 | 10               | 165                 |
| MU3 contact bridge                | CS91096O000 | 10               | 165                 |
| MU1 single moving contact         | CS94995O000 | 1                | 165                 |
| MU1H single moving contact        | CS91102O000 | 1                | 235                 |
| MU2 single moving contact         | CS94996O000 | 1                | 320                 |
| MU3 single moving contact         | CS91103O000 | 1                | 430                 |
| MU-Add ON Block - 1NO + 1NC (LHS) | SS94072O000 | 10               | 305                 |

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

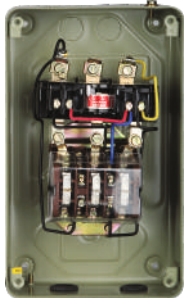
| Component                                    | Type | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|------|-------------|------------------|---------------------|
| Spare Kit                                    | MU1  | CS94010O000 | 1                | 1120                |
|  | MU1H | CS90624O000 | 1                | 1460                |
|  | MU2  | CS94011O000 | 1                | 2080                |
|  | MU3  | CS90612O000 | 1                | 2550                |
| MU Coils                                     | 240V | CS94009B000 | 10               | 660                 |
|  | 360V | CS94009C000 | 10               | 660                 |
|  | 415V | CS94009D000 | 10               | 660                 |
| Spare Relay Extension Knob (Pack of 20 Nos.) | MU1  | CS94336O000 | 1                | 145                 |
|  | MU2  | CS94337O000 | 1                | 145                 |
| Spare Housing                                | MU1  | CS94998O000 | 10               | 340                 |
|  | MU1H | CS91098O000 | 10               | 340                 |
|  | MU2  | CS94999O000 | 10               | 340                 |
|  | MU3  | CS91060O000 | 10               | 340                 |



# 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                      | 8285                      |
|                         | 12.5 HP                                      | 13 - 21               | SS91854COCO          | SS91854POCO          | 1                      | 8285                      |
|                         | 15 HP  | 20 - 32               | SS91854COEO          | SS91854POEO          | 1                      | 8285                      |
| ML2 DOL<br>(Heavy duty) | 7.5 HP                                       | 9 - 14                |                      | SS90702POAO          | 1                      | 14275                     |
|                         | 10/12.5 HP                                   | 13 - 21               | SS90702COCO          | SS90702POCO          | 1                      | 14275                     |
|                         | 20 HP  | 20 - 32               | SS90702COEO          | SS90702POEO          | 1                      | 14275                     |



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                      | 20305                     |
|                          | 25 HP  | 20 - 32               | SS91856COEO          | SS91856POEO          | 1                      | 20305                     |
| ML2 SASD<br>(Heavy duty) | 20 HP  | 13 - 21               | SS90707COCO          | SS90707POCO          | 1                      | 35850                     |
|                          | 35 HP  | 20 - 32               | SS90707COEO          | SS90707POEO          | 1                      | 35850                     |



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                      | 23000                     |
|                          | 20 HP  | 13 - 21               | SS91855COCO          | SS91855POCO          | 1                      | 23000                     |
|                          | 25 HP  | 20 - 32               | SS91855COEO          | SS91855POEO          | 1                      | 23000                     |
| ML2 FASD<br>(Heavy duty) | 12.5 HP                                      | 9 - 14                |                      | SS90705POAO          | 1                      | 37215                     |
|                          | 20 HP  | 13 - 21               | SS90705COCO          | SS90705POCO          | 1                      | 37215                     |
|                          | 35 HP  | 20 - 32               | SS90705COEO          | SS90705POEO          | 1                      | 37215                     |

# Spares For ML Starters

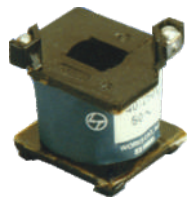


ML1.5 Contactor

## 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                | 4280                |
|              | ML2W  | 32             | 40             | 2 NO + 2 NC   | CS96005L000 | 1                | 8305                |
|              | ML3W  | 40             | 45             | 2 NO + 2 NC   | CS90907L000 | 1                | 12475               |
|              | ML4W  | 70             | 100            | 2 NO + 2 NC   | CS96006L000 | 1                | 20420               |
|              | ML6W  | 110            | 125            | 2 NO + 2 NC   | CS90168L000 | 1                | 32845               |

## ML Coil [HSN Code 8538]



Standard Operating Coil ML1.5



Standard Operating Coil ML2 / ML3

| Component  | Voltage | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|---------|-------------|------------------|---------------------|
| Standard Operating Coils for ML1.5                       | 240V    | SS90873B000 | 10               | 880                 |
|  | 360V    | SS90873C000 | 10               | 880                 |
|  | 380V    | SS90873L000 | 10               | 880                 |
|  | 440V    | SS90873P000 | 10               | 880                 |
| Standard Operating Coils for ML2/ML2W/ML3/ML3W Contactor | 240V    | SS90545B000 | 10               | 1620                |
|  | 360V    | SS90545C000 | 10               | 1620                |
|  | 380V    | SS90545L000 | 10               | 1620                |
|  | 440V    | SS90545P000 | 10               | 1620                |
| Standard Operating Coils for ML4/ML4W Contactor          | 240V    | SS91258B000 | 10               | 3095                |
|  | 360V    | SS91258C000 | 10               | 3095                |
|  | 380V    | SS91258L000 | 10               | 3095                |
|  | 440V    | SS91258P000 | 10               | 3095                |

## ML1.5 [HSN Code 8538]



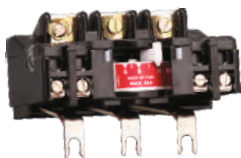
Spare kit

|                                   |       |             |    |      |
|-----------------------------------|-------|-------------|----|------|
| Spare kit without coil            | ML1.5 | SS95305O000 | 50 | 2205 |
| Moving contacts kit               | ML1.5 | SS92817O000 | 10 | 725  |
| Front Housing & Moving Bridge kit | ML1.5 | ST28734O000 | 10 | 800  |

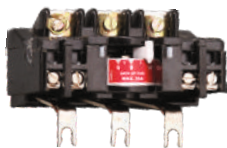
## ML2 [HSN Code 8538]

|                                   |     |             |    |      |
|-----------------------------------|-----|-------------|----|------|
| Spare kit without coil            | ML2 | SS95307O000 | 10 | 4040 |
| Moving contacts kit               | ML2 | SS92818O000 | 10 | 1095 |
| Front Housing & Moving Bridge kit | ML2 | ST23866O000 | 10 | 1095 |

## ML Relay [HSN Code 8536]



ML1 Relay



ML2 / ML3 Relay

| Type of Mounting (Operation)           | Relay Range (A)  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|------------------|-------------|------------------|---------------------|
| (Directly Operated)<br>Direct Mounting | <b>ML1</b>       |             |                  |                     |
|  | 4 - 6.5          | SS91858O0TO | 10               | 2960                |
|  | 6 - 10           | SS91858O0VO | 10               | 2960                |
| (Directly Operated)<br>Direct Mounting | 10 - 16          | SS91858O0BO | 10               | 2960                |
|  | <b>ML2 / ML3</b> |             |                  |                     |
|  | 9 - 14           | SS91859O0AO | 2                | 4370                |
|  | 13 - 21          | SS91859O0CO | 2                | 4370                |
|  | 20 - 32          | SS91859O0EO | 2                | 4370                |
|  | 28 - 42          | SS91859O0FO | 2                | 4370                |

# Single Phase / Three Phase Starters



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



Interior View of 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         | CS90319KOMO | 1                | 2350                |
| 0.25 HP                                | 1.5 - 2.5       | CS90319KOPO | 1                | 2350                |
| 0.5 HP                                 | 2.5 - 4         | CS90319KORO | 1                | 2350                |
| 0.75 HP                                | 4 - 6.5         | CS90319KOTO | 1                | 2350                |
| 1 HP                                   | 6 - 10          | CS90319KOVO | 1                | 2350                |
| 2 HP                                   | 9 - 14          | CS90319KOAD | 1                | 2350                |
| 2 HP                                   | 11 - 18         | CS90319KOCO | 1                | 2365                |
| 3 HP                                   | 13 - 22         | CS90319KODO | 1                | 2395                |



Interior View of 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                | 1650                |
| 1.25 HP                                | 6.5 - 11        | SS97227OOVO | 1                | 1650                |
| 2 HP                                   | 10.5 - 17.5     | SS97227OOBO | 1                | 1650                |
| 3 HP                                   | 12 - 20         | SS97227OOCO | 1                | 1650                |



Interior View of MF1 DOL - 3Ø Starter

## MF1 Three Phase Starters [HSN Code 8536]

| Suitable for Pump/Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|-----------------|-------------|------------------|---------------------|
| 0.125 HP                               | 0.4 - 0.65      | SS972100OHO | 1                | 2175                |
| 0.25 HP                                | 0.6 - 1         | SS972100OKO | 1                | 2175                |
| 0.5 HP                                 | 1 - 1.6         | SS972100OMO | 1                | 2175                |
| 1.25 HP                                | 1.5 - 2.5       | SS972100OPO | 1                | 2175                |
| 2 HP                                   | 2.5 - 4         | SS972100ORO | 1                | 2175                |
| 4 HP                                   | 4 - 6.5         | SS972100OTO | 1                | 2175                |
| 6 HP                                   | 6 - 10          | SS972100OVO | 1                | 2175                |
| 7.5 HP                                 | 9 - 15          | SS972100OBO | 1                | 2175                |
| 7.5 HP                                 | 11 - 18         | SS972100OCO | 1                | 2175                |



# 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 Pump/ Motor 3Ø, 415V, 50Hz | Relay Range (A) | Cat. No.          |                   | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|----------------------------|---|-----------------|-------------------|-------------------|------------------|---------------------|
|                            |   |                 | Coil Voltage 360V | Coil Voltage 415V |                  |                     |
| MU-1A DOL (with Sz5 SPPR)  | 3 HP                                    | 4 - 6.5         | CS90898COTO       | CS90898DOTO       | 1                | 6225                |
|                            | 5 HP                                    | 6 - 10          | CS90898COVO       | CS90898DOVO       | 1                | 6225                |
|                            | 7.5 HP                                  | 9 - 14          | CS90898COAO       | CS90898DOAO       | 1                | 6335                |
|                            | 10 HP                                   | 13 - 21         | CS90898COCO       | CS90898DOCOCO     | 1                | 6445                |
| MU-1HA DOL (with Sz5 SPPR) | 10 HP                                   | 15 - 25         | CS90898CODO       | CS90898DODO       | 1                | 6575                |
|                            | 10 HP                                   | 15 - 25         | CS90899CODO       | CS90899DODO       | 1                | 6730                |
|                            | 12.5 HP                                 | 20 - 32         | CS90899COEO       | CS90899DOEO       | 1                | 6930                |
| MU-2A DOL (with Sz5 SPPR)  | 12.5 HP                                 | 13 - 21         | CS90900COCO       |                   | 1                | 7630                |
|                            | 15 HP                                   | 20 - 32         | CS90900COEO       | CS90900DOEO       | 1                | 7940                |
|                            | 15 HP                                   | 24 - 38         | CS90900COGO       | CS90900DOGO       | 1                | 8070                |
| MU-3A DOL (with Sz5 SPPR)  | 15 HP                                   | 24 - 38         | CS90901COGO       | CS90901DOGO       | 1                | 8470                |
|                            | 17.5 HP                                 | 28 - 42         | CS90901COFO       | CS90901DOFO       | 1                | 8670                |

# MF-G1 Single Phase Submersible Pump Controllers

## MF-G1 Controller [HSN Code 8536]

With MF1 Starter



| 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        | SS97728OOVE  | 1 x 36                       | 3660                |        |
| MF-G1 with Ammeter Only          | 0.5 HP  | 6.5 - 11        | SS97734OOVC  | 1 x 25                       | 3365                |        |
| MF-G1 with Ammeter and Voltmeter | 1 HP  | 6.5 - 11        | SS97730OOVE  | 1 x 36                       | 3815                |        |
|                                  |   |                 |              | SS97730OOVG                  |                     | 1 x 50 |
| MF-G1 with Ammeter Only          | 1 HP  | 6.5 - 11        | SS97736OOVE  | 1 x 36                       | 3515                |        |
|                                  |   |                 |              | SS97736OOVG                  |                     | 1 x 50 |
| MF-G1 with Ammeter and Voltmeter | 1 HP  | 12 - 20         | SS97730 OOCE | 1 x 36                       | 3815                |        |
|                                  |   |                 |              | SS97730OOCG                  |                     | 1 x 50 |
| MF-G1 with Ammeter Only          | 1 HP  | 12 - 20         | SS97736OOCE  | 1 x 36                       | 3515                |        |
|                                  |   |                 |              | SS97736OOCG                  |                     | 1 x 50 |
| MF-G1 with Ammeter and Voltmeter | 1.5 HP  | 6.5 - 11        | SS97731OOVG  | 1 x 50                       | 3935                |        |
|                                  |   |                 |              | SS97731OOVF                  |                     | 2 x 36 |
| MF-G1 with Ammeter Only          | 1.5 HP  | 6.5 - 11        | SS97737OOVF  | 2 x 36                       | 3635                |        |
|                                  |   |                 |              |                              |                     |        |
| MF-G1 with Ammeter and Voltmeter | 1.5 HP  | 12 - 20         | SS97731OOCG  | 1 x 50                       | 3935                |        |
|                                  |   |                 |              | SS97731OOCF                  |                     | 2 x 36 |
| MF-G1 with Ammeter Only          | 1.5 HP  | 12 - 20         | SS97737OOCG  | 1 x 50                       | 3635                |        |
|                                  |   |                 |              | SS97737OOCF                  |                     | 2 x 36 |
| MF-G1 with Ammeter and Voltmeter | 2 HP  | 12 - 20         | SS97732OOCG  | 1 x 50                       | 4005                |        |
|                                  |   |                 |              | SS97732OOCF                  |                     | 2 x 36 |
| MF-G1 with Ammeter Only          | 2 HP  | 12 - 20         | SS97738OOCG  | 1 x 50                       | 3690                |        |
|                                  |   |                 |              | SS97738OOCF                  |                     | 2 x 36 |
|                                  |   |                 |              | SS97738OOCH                  |                     | 2 x 50 |

# MD Starter +

NEW

## MD Starter+ DOL [HSN CODE 8536]

| Starter Type | Suitable for Pump/Motor 3Ø, 415V, 50Hz | i-PROTECTOR | Relay Range (A) | Coil Voltage | Cat no      | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--------------|--|-------------|-----------------|--------------|-------------|------------------|---------------------|
| MD1-iU       | 10                                     | i-VDSM      | 13-21           | 360V         | CS91757COCO | 1                | 8230                |
| MD2-iU       | 15                                     | i-VDSM      | 20-32           |              | CS91759COEO | 1                | 9385                |
| MD3-iU       | 20                                     | i-VDSM      | 28-42           |              | CS91760COFO | 1                | 9935                |

NEW

## MD Starter+ FASD [HSN CODE 8536]

| Starter Type | Suitable for Pump/Motor 3Ø, 415V, 50Hz | i-PROTECTOR | Relay Range (A) | Coil Voltage | Cat no      | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--------------|--|-------------|-----------------|--------------|-------------|------------------|---------------------|
| MD1-iU       | 20                                     | i-VDSM      | 13-21           | 360V         | CS91768COCO | 1                | 16800               |
| MD2-iU       | 30                                     | i-VDSM      | 20-32           |              | CS91783COEO | 1                | 20700               |
| MD3-iU       | 30                                     | i-VDSM      | 24-38           |              | CS91784COGO | 1                | 23250               |
| MD2-iU       | 30                                     | i-VDSM      | 28-42           |              | CS91783COFO | 1                | 21165               |
| MD3-iU       | 30                                     | i-VDSM      | 28-42           |              | CS91784COFO | 1                | 23405               |

## Upcoming New Products

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.) |
|--------------|--|-------------|-----------------|-------------------|-------------------|------------------|
|              |  |             |                 | Coil Voltage 360V | Coil Voltage 415V |                  |
| MD1-iU       | 7.5                                    | i-ADSM      | 9-14            | CS91753COAO       | CS91753DOAO       | 1                |
| MD1-iU       | 10                                     | i-ADSM      | 13-21           | CS91753COCO       | CS91753DOCO       | 1                |
| MD1H-iU      | 12.5                                   | i-ADSM      | 13-21           | CS91754COCO       | CS91754DOCO       | 1                |
| MD2-iU       | 12.5                                   | i-ADSM      | 13-21           | CS91755COCO       | CS91755DOCO       | 1                |
| MD1-iU       | 10                                     | i-ADSM      | 15-25           | CS91753CODO       | CS91753DODO       | 1                |
| MD1H-iU      | 12.5                                   | i-ADSM      | 15-25           | CS91754CODO       | CS91754DODO       | 1                |
| MD2-iU       | 12.5                                   | i-ADSM      | 15-25           | CS91755CODO       | CS91755DODO       | 1                |
| MD1H-iU      | 12.5                                   | i-ADSM      | 20-32           | CS91754COEO       | CS91754DOEO       | 1                |
| MD2-iU       | 15                                     | i-ADSM      | 20-32           | CS91755COEO       | CS91755DOEO       | 1                |
| MD3-iU       | 17.5                                   | i-ADSM      | 20-32           | CS91756COEO       | CS91756DOEO       | 1                |
| MD2-iU       | 15                                     | i-ADSM      | 24-38           | CS91755COGO       | CS91755DOGO       | 1                |
| MD3-iU       | 17.5                                   | i-ADSM      | 24-38           | CS91756COGO       | CS91756DOGO       | 1                |
| MD3-iU       | 20                                     | i-ADSM      | 28-42           | CS91756COFO       | CS91756DOFO       | 1                |
| MD1-iU       | 7.5                                    | i-VDSM      | 9-14            | CS91757COAO       | CS91757DOAO       | 1                |
| MD1-iU       | 10                                     | i-VDSM      | 13-21           |                   | CS91757DOCO       | 1                |
| MD1H-iU      | 12.5                                   | i-VDSM      | 13-21           | CS91758COCO       | CS91758DOCO       | 1                |
| MD2-iU       | 12.5                                   | i-VDSM      | 13-21           | CS91759COCO       | CS91759DOCO       | 1                |
| MD1-iU       | 10                                     | i-VDSM      | 15-25           | CS91757CODO       | CS91757DODO       | 1                |
| MD1H-iU      | 12.5                                   | i-VDSM      | 15-25           | CS91758CODO       | CS91758DODO       | 1                |
| MD2-iU       | 12.5                                   | i-VDSM      | 15-25           | CS91759CODO       | CS91759DODO       | 1                |
| MD1H-iU      | 12.5                                   | i-VDSM      | 20-32           | CS91758COEO       | CS91758DOEO       | 1                |
| MD2-iU       | 15                                     | i-VDSM      | 20-32           |                   | CS91759DOEO       | 1                |
| MD3-iU       | 17.5                                   | i-VDSM      | 20-32           | CS91760COEO       | CS91760DOEO       | 1                |
| MD2-iU       | 15                                     | i-VDSM      | 24-38           | CS91759COGO       | CS91759DOGO       | 1                |
| MD3-iU       | 17.5                                   | i-VDSM      | 24-38           | CS91760COGO       | CS91760DOGO       | 1                |
| MD3-iU       | 20                                     | i-VDSM      | 28-42           |                   | CS91760DOFO       | 1                |

# Upcoming New Products

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.) |
|--------------|---|-------------|-----------------|-------------------|-------------------|------------------|
|              |   |             |                 | Coil Voltage 360V | Coil Voltage 415V |                  |
| MD1-iU       | 15                                      | i-ADSM      | 9-14            | CS91778COAO       | CS91778DOAO       | 1                |
| MD1-iU       | 20                                      | i-ADSM      | 13-21           | CS91778COCO       | CS91778DOCO       | 1                |
| MD1H-iU      | 25                                      | i-ADSM      | 15-25           | CS91779COEO       | CS91779DOEO       | 1                |
| MD2-iU       | 25                                      | i-ADSM      | 15-25           | CS91780CODO       | CS91780DODO       | 1                |
| MD2-iU       | 20                                      | i-ADSM      | 13-21           | CS91780COCO       | CS91780DOCO       | 1                |
| MD2-iU       | 30                                      | i-ADSM      | 20-32           | CS91780COEO       | CS91780DOEO       | 1                |
| MD2-iU       | 30                                      | i-ADSM      | 28-42           | CS91780COFO       | CS91780DOFO       | 1                |
| MD3-iU       | 30                                      | i-ADSM      | 20-32           | CS91781COEO       | CS91781DOEO       | 1                |
| MD3-iU       | 30                                      | i-ADSM      | 24-38           | CS91781COGO       | CS91781DOGO       | 1                |
| MD3-iU       | 30                                      | i-ADSM      | 28-42           | CS91781COFO       | CS91781DOFO       | 1                |
| MD1-iU       | 15                                      | i-VDSM      | 9-14            | CS91768COAO       | CS91768DOAO       | 1                |
| MD1-iU       | 20                                      | i-VDSM      | 13-21           |                   | CS91768DOCO       | 1                |
| MD2-iU       | 20                                      | i-VDSM      | 13-21           | CS91783COCO       | CS91783DOCO       | 1                |
| MD1H-iU      | 25                                      | i-VDSM      | 15-25           | CS91782COEO       | CS91782DOEO       | 1                |
| MD2-iU       | 25                                      | i-VDSM      | 15-25           | CS91783CODO       | CS91783DODO       | 1                |
| MD2-iU       | 30                                      | i-VDSM      | 20-32           |                   | CS91783DOEO       | 1                |
| MD2-iU       | 30                                      | i-VDSM      | 28-42           |                   | CS91783DOFO       | 1                |
| MD3-iU       | 30                                      | i-VDSM      | 20-32           | CS91784COEO       | CS91784DOEO       | 1                |
| MD3-iU       | 30                                      | i-VDSM      | 24-38           |                   | CS91784DOGO       | 1                |
| MD3-iU       | 30                                      | i-VDSM      | 28-42           |                   | CS91784DOFO       | 1                |

NEW

## SPPR [HSN CODE 9032]

| Description                           | Cat. No.    | Std. Pkg. (Nos.) |
|---------------------------------------|-------------|------------------|
| Auto Switch for 2 Button SASD Starter | XM818100000 | 1                |
| Auto Switch for 3 Button SASD Starter | XM818110000 | 1                |



# Px3000

## Solar Drive Controller

Empowering Green Irrigation Solutions



True MPPT



Auto & Adaptable MPPT



Plug & Play Drive



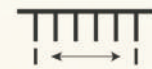
Robust design to handle high input DC voltage up to 850V



Rugged design, best-in-class performance even at 50 degrees ambient without derating



Automatic Start & Stop



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



Built-in RS485



Grid Compatible

[HSN Code 8504]

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



**AGRI CUSTOMER CARE**  
Tel: +91-22-67745858  
Toll free: 1800 233 5858 /1800 200 5858

# 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                | 18675               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CSDO                     | CS91206PSDO           | 1                | 18675               |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CNDO                     | CS91206PNDO           | 1                | 18675               |
| East            | English, Hindi, Odia, Assamese, Bengali    | MU-G6S | 6 HP                                   | 4 - 22          | CS91206CEDO                     | CS91206PEDO           | 1                | 18675               |

## 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                | 19770               |
|                 |  | MU-G10HS | 10                                     | 20 - 42         | CS91207CCFO       | CS91207DCFO       | 1                | 20860               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G10S  | 10                                     | 4 - 22          | CS91205CSDO       | CS91205DSDO       | 1                | 19770               |
|                 |  | MU-G10HS | 10                                     | 20 - 42         | CS91207CSFO       | CS91207DSFO       | 1                | 20860               |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G10S  | 10                                     | 4 - 22          | CS91205CNDO       | CS91205DNDO       | 1                | 19770               |
|                 |  | MU-G10HS | 10                                     | 20 - 42         | CS91207CNFO       | CS91207DNFO       | 1                | 20860               |
| East            | English, Hindi, Odia, Assamese, Bengali    | MU-G10S  | 10                                     | 4 - 22          | CS91205CEDO       | CS91205DEDO       | 1                | 19770               |
|                 |  | MU-G10HS | 10                                     | 20 - 42         | CS91207CEFO       | CS91207DEFO       | 1                | 20860               |

## 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                | 24845               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CSDO                    | CS91529PSDO           | 1                | 24845               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G15S | 15 HP                                  | 4 - 22          | CS91529CEDO                    | CS91529PEDO           | 1                | 24845               |



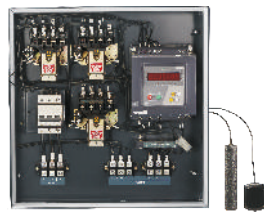
# SMART Controller



With in-built short-circuit protection device



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



MU-G15HS

| 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 360W (200V-400V) | Coil Voltage 400/440V |                  |                     |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CNEO                   | CS91530PNEO           | 1                | 28180               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CSEO                   | CS91530PSEO           | 1                | 28180               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G15HS | 15 HP                                  | 13 - 32         | CS91530CEEO                   | CS91530PEEO           | 1                | 28180               |

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



MU-G20S

| 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                | 27370               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CSDO        | CS91531DSDO        | 1                | 27370               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20S | 20 HP                                  | 4 - 22          | CS91531CEDO        | CS91531DEDO        | 1                | 27370               |
| North           | English, Hindi, Marathi, Gujarati, Punjabi | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CNEO        | CS91531DNEO        | 1                | 30805               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CSEO        | CS91531DSEO        | 1                | 30805               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20S | 20 HP                                  | 13 - 32         | CS91531CEEO        | CS91531DEEO        | 1                | 30805               |

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



MU-G20HS

| 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                | 35855               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CSFO        | CS91532DSFO        | 1                | 35855               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G20HS | 20 HP                                  | 13 - 42         | CS91532CEFO        | CS91532DEFO        | 1                | 35855               |

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



MU-G25S

| 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                | 38280               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CSFO        | CS91533DSFO        | 1                | 38280               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G25S | 25 HP                                  | 24 - 42         | CS91533CEFO        | CS91533DEFO        | 1                | 38280               |



# SMART Controller



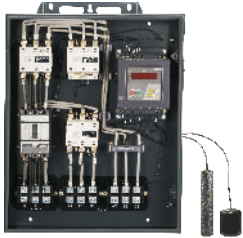
## MU-G30S SMART Controller FASD [HSN Code 8536]



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                | 50900               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LSGO       | 1                | 50900               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G30S | 30 HP                                  | 20 - 50         | CS91651LEGO       | 1                | 50900               |

## 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                | 58040               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LSTO       | 1                | 58040               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G40S | 40 HP                                  | 30 - 60         | CS91652LETO       | 1                | 58040               |

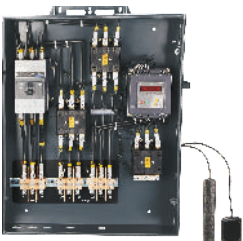
## MU-G50S SMART Controller FASD [HSN Code 8536]



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                | 84150               |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LSJO       | 1                | 84150               |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G50S | 50 HP                                  | 30 - 75         | CS91653LEJO       | 1                | 84150               |

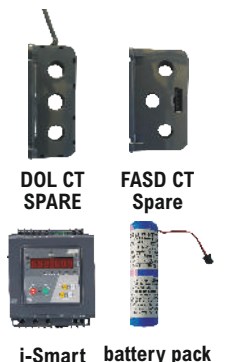
## MU-G75S SMART Controller FASD [HSN Code 8536]



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                | 107000              |
| South           | English, Hindi, Kannada, Telugu, Tamil     | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LSKO       | 1                | 107000              |
| East            | English, Hindi, Assamese, Odia, Bengali    | MU-G75S | 75 HP                                  | 45 - 90         | CS91654LEKO       | 1                | 107000              |

## 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>i</i> -Smart for DOL without WLC             | CS914130*OO | 1              | 16180              |
| <i>i</i> -Smart for FASD without WLC(upto 25HP) | CS914140*OO | 1              | 20300              |
| <i>i</i> -Smart for FASD without WLC (30-75HP)  | CS914150*OO | 1              | 24380              |
| Spare CT Assembly DOL (And FASD Upto 25 HP)     | CS91095O000 | 1              | 1270               |
| Spare CT Assembly FASD 30-75 HP                 | CS91648O000 | 1              | 1835               |
| Spare Battery Pack                              | CS91417O000 | 1              | 1280               |

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

# 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                | 7820                |
|           | 5 HP  | 6 - 10          | 360V-W (200V-400V) | SS97756COVO | 1                | 7820                |
|           | 6 HP  | 9 - 14          | 360V-W (200V-400V) | SS97756COAO | 1                | 7820                |

**NEW**

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



Interior View of MU-G7.5 DOL

| Type        | Maximum Submersible Pump Rating at 3Ø, 415V, 50Hz |     | Relay Range (A) | Coil Voltage 360-W (200V-400V) | 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                | 8090                |
|             | 7.5 HP  | 5.5 | 20 - 32         | 360V-W (200V - 400V)           | CS92103SOEO | 1                | 8090                |



Interior View of MU-G10 DOL

**NEW**

## 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                | 9000                |
|                          | 5   | 3.7     | 6 - 10          | SS95983COVO       | SS95983DOVO       | 1                | 9000                |
|                          | 6   | 4.5     | 9 - 14          | SS95983COAO       | SS95983DOAO       | 1                | 9130                |
|                          | 7.5/10  | 5.5/7.5 | 13 - 21         | SS95983COCO       | SS95983DOCOCO     | 1                | 9250                |
| MU-G10HN DOL             | 10  | 7.5     | 15-25           | CS92102CODO       | CS92102DODO       | 1                | 9110                |
|                          | 10  | 7.5     | 20-32           | CS92102COEO       | CS92102DOEO       | 1                | 9360                |
| MU-G10H DOL (Heavy duty) | 10  | 7.5     | 20 - 32         | SS95974COEO       | SS95974DOEO       | 1                | 10405               |
|                          | 10  | 7.5     | 28 - 42         | SS95974COFO       | SS95974DOFO       | 1                | 10725               |

# 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                | 15090               |
|             | 10  | 7.5 | 9 - 14          | CS94091SOAO                       |  | 1                | 15090               |
|             | 15  | 11  | 11 - 18         | CS94091SOCO                       |  | 1                | 15225               |
|             | 15  | 11  | 13 - 22         | CS94091SODO                       |  | 1                | 15295               |



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                | 16535               |
|               | 17.5 HP                                | 20 - 32         | CS91880SOEO | 1                | 16535               |

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



Interior View of MU-G20 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-G20 FASD               | 10  | 7.5   | 9 - 14          | SS95984COAO       | SS95984DOAO       | 1                | 17720               |
|                           | 15/20   | 11/15 | 13 - 21         | SS95984COCO       | SS95984DOCO       | 1                | 17815               |
| MU-G20HN FASD             | 20  | 15    | 15-25           | CS92101CODO       | CS92101DODO       | 1                | 18060               |
|                           | 20  | 15    | 20-32           | CS92101COEO       | CS92101DOEO       | 1                | 18310               |
| MU-G20H FASD (Heavy duty) | 20  | 15    | 20 - 32         | SS95975COEO       | SS95975DOEO       | 1                | 21720               |
|                           | 20  | 15    | 28 - 42         | SS95975COFO       | SS95975DOFO       | 1                | 22180               |



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                | 25235               |
|             | 25  |  | 28 - 42         | CS91969COFO       | CS91969DOFO       | 1                | 25425               |



# 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                | 34575               |
|             | 30 HP   | 30 - 50         | 380V         | CS96008COGO | 1                | 35390               |



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                | 42530               |
|             | 40 HP   | 36 - 60         | 380V         | CS90908LOTO | 1                | 43240               |



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                | 56755               |
|             | 50 HP   | 45 - 75         | 380V         | CS96009COJO | 1                | 58470               |



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                | 81140               |
|             | 75 HP   | 66 - 110        | 380V         | CS96451LOKO | 1                | 81140               |

## Solar Controller



## MU-G SOLAR Controller [HSN Code 8504]

| Suitable for AC Induction Pump/Motor 3Ø, 400V/415V, 50Hz | Product       | Cat. No.    | Description                       | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|---------------|-------------|-----------------------------------|------------------|---------------------|
| 3 HP   | MU-G3 SOLAR   | CS91463PT10 | MU-G3 SOLAR Controller with RMU   | 1                | 45580               |
| 5 HP   | MU-G5 SOLAR   | CS91464PT10 | MU-G5 SOLAR Controller with RMU   | 1                | 49120               |
| 7.5 HP   | MU-G7.5 SOLAR | CS91465PT10 | MU-G7.5 SOLAR Controller with RMU | 1                | 72930               |

Note: Controllers are with Px2000 Solar Drives.



# 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                | 12310               |
|  | 5   | 3.7 | 6 - 10          | CS91037COVO       | CS91037DOVO       | 1                | 12310               |
|  | 7.5   | 5.5 | 9 - 14          | CS91037COAO       | CS91037DOAO       | 1                | 12460               |
| MU-G10W DOL (Heavy duty) with in-built WLC | 10  | 7.5 | 13 - 21         | CS91037COCO       | CS91037DOCO       | 1                | 12570               |
|  | 10  | 7.5 | 20 - 32         |                   | CS91037DOEO       | 1                | 13900               |
|  | 10  | 7.5 | 28 - 42         | CS91037COFO       |                   | 1                | 14200               |

## 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                | 21655               |
|   | 20  | 15 | 13 - 21         | CS91038COCO       | CS91038DOCO       | 1                | 21750               |
| MU-G20W FASD (Heavy duty) with in-built WLC | 20  | 15 | 20 - 32         | CS91038COEO       | CS91038DOEO       | 1                | 25430               |
|   | 20  | 15 | 28 - 42         |                   | CS91038DOFO       | 1                | 25940               |



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                | 40655               |

## 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 |
|------------------------------|-----------------|-------------|------------------|---------------------|
| <b>MN 2</b>                  |                 |             |                  |                     |
| (Directly Operated)          | 6 - 10          | SS941420OVO | 10               | 1650                |
|                              | 9 - 15          | SS941420OBO | 10               | 1660                |
| Direct Mounting              | 14 - 23         | SS941440ODO | 10               | 1810                |
|                              | 20 - 33         | SS941450OEO | 10               | 2665                |
| <b>MN 5</b>                  |                 |             |                  |                     |
| (Directly Operated)          | 20 - 33         | SS941360OEO | 10               | 3315                |
|                              | 30 - 50         | SS941360OGO | 10               | 4075                |
| Direct Mounting              | 36 - 60         | SS941360OTO | 10               | 4385                |
|                              | 45 - 75         | SS941370OJO | 10               | 4705                |
|                              | 66 - 110        | SS941370OKO | 10               | 5370                |

# 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                | 240                 |
| Terminal Block 60A - 3 way (For MU-G10/20)  | CS948060000 | 1                | 200                 |
| Terminal Block 100A - 3 way (For MU-G30/50) | CS943380000 | 1                | 1195                |
| Terminal Block 125A - 3 way (For MU-G75)    | CS901720000 | 1                | 4395                |

## Indicating lamp [HSN Code 8531]

| Description                 | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|-----------------------------|-------------|------------------|---------------------|
| Indicating lamp Red 415V    | CS94810D000 | 1                | 325                 |
| Indicating lamp Green 415V  | CS94812D000 | 1                | 325                 |
| Spare Lamp, MR-G Controller | CS961260000 | 1                | 75                  |

## 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                | 85                  |
| Rocker switch (For MU-G30 to MU-G75) | CS902720000 | 1                | 145                 |
| Voltage selector switch              | CS943350000 | 1                | 455                 |

## Volt-Ammeter [HSN Code 9030]

| Description                                     | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|---|-------------|------------------|---------------------|
| Volt-Ammeter 500V 30A                           | CS94817E0EO | 1                | 1350                |
| Volt-Ammeter 500V 60A                           | CS94817EOTO | 1                | 1395                |
| Volt-Ammeter 500V, 0-75A                        | CS900550000 | 1                | 1395                |
| Volt-Ammeter 500V, 0-100A                       | CS900560000 | 1                | 1395                |
| Volt-Ammeter 500V, 0-125A                       | CS900570000 | 1                | 1395                |
| 30A Ammeter Spare for MR-G Controller           | CS960260000 | 1                | 595                 |
| Volt-Ammeter (30A, 300V AC) for MR-G Controller | CS960280000 | 1                | 1035                |

## SPPR [HSN Code 9032]

| Description  | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|-------------|------------------|---------------------|
| SPPR type Sz5 (7 Wire), 380V                                 | ST921660000 | 1                | 915                 |
| SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)                | CS94824C000 | 1                | 915                 |
| SPPR type Sz5 (6 Wire), 380V (For MU-G6)                     | CS94824L000 | 1                | 915                 |
| SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)                | CS94824D000 | 1                | 915                 |
| SPPR type SDz5, 360V (For MU-G20/20H)                        | XM818080000 | 1                | 1750                |
| SPPR type SDz5, 380V (For MU-G30/40/50/75)                   | XM818070000 | 1                | 1750                |
| SPPR type SDz5, 415V (For MU-G15/20/20H)                     | XM818090000 | 1                | 1750                |
| <b>NEW</b> SPPR type Sz5(6 long wire), 360V (FOR MU-G10/10H) | CS94855C000 | 1                | 990                 |
| <b>NEW</b> SPPR type Sz5(6 long wire), 415V (FOR MU-G10/10H) | CS94855D000 | 1                | 990                 |

## 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                | 100                 |
| Spare plug MU-10 (Bulk of 10) | ST155920000 | 1                | 105                 |
| Spare plug MU-15 (Bulk of 10) | ST155930000 | 1                | 125                 |
| Spare plug MU-20 (Bulk of 10) | ST155940000 | 1                | 125                 |
| Spare plug MU-30 (Bulk of 10) | ST155950000 | 1                | 130                 |
| Spare plug MU-50 (Bulk of 10) | ST155960000 | 1                | 135                 |
| Spare plug MU-75 (Bulk of 10) | ST155970000 | 1                | 135                 |

## 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                | 1890                |

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



# 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                       | 4060                |
|                |   | CS91321NAOE | 80 / 100                   | 1 x 36                       |                     |
|                | 1 Hp  | CS91322NBOE | 100 / 120                  | 1 x 36                       | 4270                |
|                |   | 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                       | 4470                |
|                |   | 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                       | 4660                |
|                |   | 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                       | 4855                |

## 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                       | 5095                |
|               |   | CS91718NAOE | 80 / 100                   | 1 x 36                       |                     |
|               | 1 Hp  | CS91719NBOE | 100 / 120                  | 1 x 36                       | 5295                |
|               |   | 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                       | 5475                |
|               |   | 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                       | 5685                |
|               |   | 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          | CS91722NEOJ                                       | 200 / 250   | 1 x 72                     | 5880                         |                     |
| 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                       | 5625                |
|                        |   | CS91331NAOE | 80 / 100                   | 1 x 36                       |                     |
|                        | 1 Hp  | CS91332NBOE | 100 / 120                  | 1 x 36                       | 5820                |
|                        |   | 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                       | 6015                |
|                        |   | 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                       | 6195                |
|                        |   | 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                       | 6405                |

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



Start Switch

Stop Switch



Terminal Block

| Description                            | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|--|-------------|-----------------|---------------------|
| Spare start switch (Manual Version)    | CS913630000 | 1               | 220                 |
| Spare stop switch (Manual Version)     | CS913640000 | 1               | 160                 |
| Mounting kit accessory                 | CS913650000 | 1               | 145                 |
| Spare 5 way terminal block             | CS913660000 | 1               | 170                 |
| Spare 2 way terminal block             | CS913670000 | 1               | 125                 |
| <b>NEW</b> Spare Digital Module Manual | CS920250000 | 1               | 3140                |
| <b>NEW</b> Spare Digital Module Auto   | CS920260000 | 1               | 4285                |

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



MR-GiA WLC Spare

| Description      | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|------------------|-------------|-----------------|---------------------|
| Spare Wlc Module | CS913680000 | 1               | 1155                |

# 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                      | -                 | 4545                |
|             |   | 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               |                     |
|             |   | 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                      | -                 | 4950                |
|             |   | 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               |                     |
|             |   | 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                      | -                 | 5335                |
|             |   | 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]

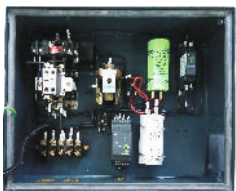
| Type        | Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz | Cat. No.    | Relay Range (A) | Start Capacitor 275V, 50Hz | Run Capacitor 440V, 50Hz MFD | With Ammeter & Voltmeter | With Ammeter Only | M.R.P. (₹) Per Unit |      |
|-------------|---|-------------|-----------------|----------------------------|------------------------------|--------------------------|-------------------|---------------------|------|
| MR-G2       | 1.5 HP  | SS96989BCAG | 9 - 14          | 120 / 150                  | 1 x 50                       | -                        | Yes               | 5140                |      |
|             |   | 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                      | -                 | 5610                |      |
|             |   | 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                       |                          |                   |                     | -    |
|             |   | 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               | -                   |      |
|             |   |             | CS96468BEBH     | 16 - 26                    | 200 / 250                    | 2 x 50                   | -                 | Yes                 | 5885 |
|             | 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                      | -                 | 8805                |      |

# 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 1 $\phi$ , 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                       | 9825                |
|  | CS91040BAVE | 6 - 10          | 80 / 100                   | 1 x 36                       |                     |
| 1HP  | CS91041BBVE | 6 - 10          | 100 / 120                  | 1 x 36                       | 10240               |
|  | 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                       | 10750               |
|  | 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                       | 10995               |
|  | 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                       | 11390               |



Interior View of MR-G2W

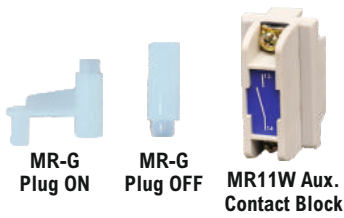
## Water Level Controller [HSN Code 9032]



WLC

| Description   | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|---|-------------|------------------|---------------------|
| Water Level Controller (240V)(Double Tank application)  | XM810520000 | 1                | 1355                |
| Water Level Controller (415V)(Double Tank application)  | XM810530000 | 1                | 1355                |
| Water Level Controller (240V) (Single Tank application) | XM810550000 | 1                | 1285                |
| Water Level Controller (415V) (Single Tank application) | XM810560000 | 1                | 1285                |
| WLC probes (set of 3 nos.)                              | XM810510000 | 1                | 450                 |
| WLC probes (set of 6 nos.)                              | XM810760000 | 1                | 910                 |

# 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              | 665                 |
| MR-G2 Plug ON & OFF (Bulk of 10 ON & 10 OFF Plugs) | CS916960000 | 1               | 265                 |
| SPARE ADD ON BLOCK, MR-G2                          | CS964360000 | 1               | 195                 |



MU - 2P Contactor

## 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              | 940                 |
|                   | 25A        | MU 25 - 2P (160-220V) | CS90118N000 | 10              | 1150                |
|                   | 40A        | MU 40 - 2P (160-220V) | CS90119N000 | 10              | 1460                |



MR 11W Contactor

## 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

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

| Component     | Type       | Cat. No.    | Std.Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|---------------|------------|-------------|-----------------|---------------------|
| MU - 2P Relay | 1 - 1.6A   | CS90207O0MO | 1               | 695                 |
|               | 1.5 - 2.5A | CS90207O0PO | 1               | 695                 |
|               | 2.5 - 4A   | CS90207O0RO | 1               | 695                 |
|               | 4 - 6.5A   | CS90207O0TO | 1               | 695                 |
|               | 6 - 10A    | CS90207O0VO | 1               | 695                 |
|               | 9 - 14A    | CS90207O0AO | 1               | 695                 |
|               | 11 - 18A   | CS90207O0CO | 1               | 775                 |
|               | 13 - 22A   | CS90207O0DO | 1               | 775                 |
|               | 16 - 26A   | CS90207O0BO | 1               | 775                 |
|               | 20 - 32A   | CS90207O0EO | 1               | 970                 |



MU-2P Coil

## 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               | 275                 |
|                                 | MU 25 - 2P              | CS902180000 | 1               | 360                 |
|                                 | MU 40 - 2P              | CS902190000 | 1               | 525                 |
| MU - 2P Spare Coil & Top Add-on | MU-2P Coil (220V)       | CS90793N000 | 1               | 365                 |
|                                 | MU-2P Coil (300V)       | CS90793R000 | 1               | 365                 |
|                                 | MU-2P Top Add-on (1 NO) | CS906950000 | 1               | 205                 |

## 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               | 925                 |
| Wiring Harness, MU-G10 (Flexible Type)                                    | CS961300000 | 1               | 1310                |
| Wiring Harness, MU-G10H (Flexible Type)                                   | CS961340000 | 1               | 1705                |
| Wiring Harness, MU-G15 (Flexible Type)                                    | CS905670000 | 1               | 1935                |
| Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)                        | CS961290000 | 1               | 2890                |
| Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)                       | CS961350000 | 1               | 3080                |
| Wiring Harness, MU-G30 (Flexible Type)                                    | CS961280000 | 1               | 3785                |
| Wiring Harness, MU-G50 (Flexible Type)                                    | CS961270000 | 1               | 5385                |
| Wiring Harness, MU-G75 (Flexible Type)                                    | CS901710000 | 1               | 7735                |
| Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay) | CS961330000 | 1               | 1065                |



# M-POWER Pro

Operate your pump from anywhere at anytime

## FEATURES



### 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 of one's home through LTLK Connect App.



### CONVENIENCE IN USAGE

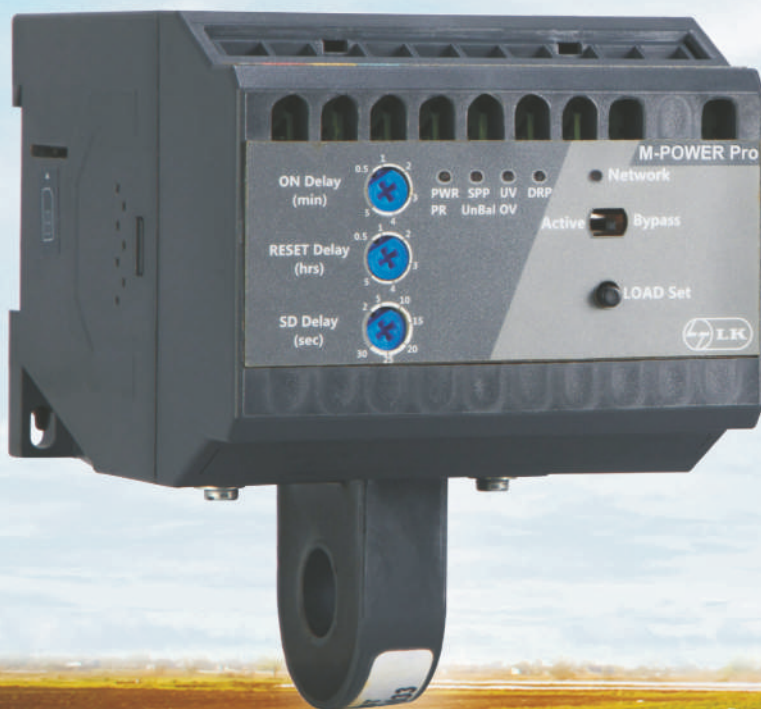
The same device can be used with 3 phase DOL & Star - Delta starter, hence no additional device is needed.



### 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 and phase unbalance faults.

▶ WITH TIMER OPERATIONS  
▶ EASY THREE WIRE CONNECTION



Technology at your finger tips



LTLK Connect APP



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# SOLAR INVERTER



## LTLK Solar Inverter MS-RE Series

### Features:

- ◆ **Intelligent Modes For Solar Prioritization:** 3 user selectable modes (Solar, Solar + Grid, and Grid + Solar) to optimise usage of solar energy & reduce electricity bills
- ◆ **Inbuilt Heavy Duty (50A) Solar Charge Controller:** It enables fast battery charging
- ◆ **Compatible With Different Types Of Batteries:** Compatible with all types of batteries available on the market, like Tubular / Flat / Gel or VRLA
- ◆ **Smart Battery Management:** With Battery Protection & Battery Status Indications
- ◆ **Wider Grid Operating Voltage:** It works even at low voltage (90V till 290V), making it suitable for locations with low voltage problems
- ◆ **Reliable:** The inverter provides assurance of product's quality, reliability, and safety to the customers
- ◆ **Automatic No Load Shutdown:** Saves battery power & increase back-up
- ◆ **Max Capacity Utilization:** Connect Solar Panels (850 Wp / 1500 Wp) equivalent to Solar Inverter's VA rating
- ◆ **User Friendly Display**
- ◆ **BIS Certified inverter**

### Technical Specifications

| Product                  | MS-RE 1                                   | MS-RE 2   |
|--------------------------|---|---|
| Product VA Rating        | 850 VA                                    | 1500 VA   |
| Input                    |   |   |
| Battery Voltage          | 12 V                                      | 24 V  |
| Solar Panel              | 850 Wp,<br>18 V - 25 V VOC                | 1500 Wp,<br>36 V - 60 V VOC   |
| Recommended Solar Panel  | 5 modules of 165 Wp each                  | 5 modules of 300 Wp each  |
| Recommended Battery Size | 1 no of battery<br>12 V - 150 Ah / 200 Ah | 2 nos of batteries of 12 V - 150 Ah /<br>200 Ah (Series Connection) |

### MS-RE 1 Solar Inverter [HSN Code 8504]

| Rating (VA) | Suitable Battery Voltage (V) | Cat. No.          | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit                    |
|-------------|------------------------------|-------------------|------------------|--|
| 850         | 12                           | AEH-SHY02-0850-LK | 1                | Please refer Solar Inverter Price List |

### MS-RE 2 Solar Inverter [HSN Code 8504]

| Rating (VA) | Suitable Battery Voltage (V) | Cat. No.          | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit                    |
|-------------|------------------------------|-------------------|------------------|--|
| 1500        | 24                           | AEH-SHY02-1500-LK | 1                | Please refer Solar Inverter Price List |



Scan QR code for  
MS-RE 1



Scan QR code for  
MS-RE 2



# i-PROTECTOR



## 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 |                        |           | 1- Phase Starters | 3- Phase Controller |                  | 1- Phase Controller | 3-Phase SASD / FASD Starters |           |           | 3-Phase Controller (FASD) |                  |
|                       | MK1 / MK2       | MU1 / MU1H / MU2 / MU3 | MB1 / MB2 | MU-2P             | MU-G6               | MU-G10 / MU-G10H | MR-G2 / MR-G3       | MK1                          | MU1 / MU2 | MB1 / MB2 | MU-G15                    | MU-G20 / MU-G20H |
| <i>i-AD</i>           | ✓               | ✓                      | ✓         | ✓                 | ✓                   | ✓                | ✓                   | ✓                            | ✓         | ✓         | ✓                         | ✓                |
| <i>i-ADS / i-ADSM</i> | ✓               | ✓                      | ✓         |                   | ✓*                  | ✓*               |                     | ✓                            | ✓         | ✗         | ✓*                        | ✓*               |
| <i>i-VDS / i-VDSM</i> | ✓               | ✓                      | ✓         |                   | ✓*                  | ✓*               |                     | ✓                            | ✓         | ✗         | ✓*                        | ✓*               |

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

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

## i-PROTECTOR [HSN Code 8536]

| Product Designation | Product Details  | 240 V       | 360 V       | 380 V       | 415 V       | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|---------------------|--|-------------|-------------|-------------|-------------|------------------|---------------------|
| <i>i-AD</i>         | Dry run protection relay (current based)                                       | CS90861B000 |             |             |             | 1                | 1305                |
| <i>i-AD</i>         | Dry run protection relay (current based)                                       |             | CS90861C000 | CS90861L000 | CS90861D000 | 1                | 1340                |
| <i>i-ADS</i>        | Single phasing preventer & dry run protection relay (current based)            |             | CS90862C000 | CS90862L000 | CS90862D000 | 1                | 2235                |
| <i>i-ADSM</i>       | Single phasing preventer & dry run protection relay + VI meter (current based) |             | CS90863C000 | CS90863L000 | CS90863D000 | 1                | 2840                |
| <i>i-VDS</i>        | Single phasing preventer & dry run protection relay (voltage based)            |             | CS90866C000 | CS90866L000 | CS90866D000 | 1                | 2075                |
| <i>i-VDSM</i>       | Single phasing preventer & dry run protection relay + VI meter (voltage based) |             | CS90875C000 | CS90875L000 | CS90875D000 | 1                | 2840                |

Please see the Note at the bottom of the page

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



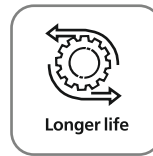
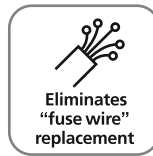
| Description   | Cat. No.     | Std.Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|---|--------------|-----------------|---------------------|
| Wire Harness, <i>i-AD</i> (230V-Single Phase)                             | CS9163300000 | 1               | 260                 |
| Wire Harness, <i>i-AD</i> (Three Phase)                                   | CS9163400000 | 1               | 300                 |
| Wire Harness, <i>i-ADS</i> , <i>i-ADSM</i> , <i>i-VDS</i> , <i>i-VDSM</i> | CS9163500000 | 1               | 370                 |

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



# 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             |
| 16-26   | 32          | 09-14          |         | 16          |                |
| MR-G3   | 20-32       | 32             | 13-21   | 25          |                |
|         |             |                | 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
  - No need of replacing "fuse wire" in case of fault
  - Simple to resume supply by switching ON MCB
  - Saves fuse replacement time and saves money
  - Longer life
  - Safer in operation
  - Easy to switch ON/OFF during maintenance

### 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 | LK20060K | 6              | 2                  | 6                 | 855                 |
|          | 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                 |
|          | LK20500K | 50             | 2                  | 6                 | 1370                |



| MCB Pole | Cat. No. | MCB Rating (A) | Module 1Mod=17.5mm | Std. Pkg. (Nos.)* | M.R.P. (₹) Per Unit |
|----------|----------|----------------|--------------------|-------------------|---------------------|
| 3 - Pole | LK30060K | 6              | 3                  | 4                 | 1375                |
|          | 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                |

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

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



## 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



LTLK Connect App



Product videos

## 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 | CS91313MOOO       | CS91313LOOO       | CS91313O000       | 1                | 7220                |
| South           | English, Hindi, Kannada, Telugu, Tamil     |             | CS91313MOSO       | CS91313LOSO       | CS91313OOSO       | 1                | 7220                |
| East            | English, Hindi, Odia, Assamese, Bengali    |             | CS91313MOEO       | CS91313LOEO       | CS91313O0EO       | 1                | 7220                |

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



## 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    | GSM0301OONO | 1                | 4830                |
|   | English, Hindi, Kannada, Telugu, Tamil     | South           | GSM0301OOSO | 1                | 4830                |
|   | English, Hindi, Bengali, Odia, Assamese    | East            | GSM0301O0EO | 1                | 4830                |



Wire Type Antenna

## M-POWER+ Accessories

| Description                         | Cat. No.    | Std. Pkg. (Nos.) | M.R.P. (₹) Per Unit |
|-------------------------------------|-------------|------------------|---------------------|
| Wire Type Antenna [8538]            | GSM0301A000 | 1                | 495                 |
| Controller-side Wire Harness [8544] | GSM0301C000 | 1                | 180                 |
| Module-side Wire Harness [8544]     | GSM0301G000 | 1                | 260                 |



Controller-side Wire Harness & Module-side Wire Harness

# 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

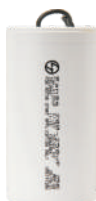
## Spare Cylindrical Condensers with Wire [HSN Code 8532]

| 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                 |
| Start | 72      | 440V    | LTCCMRW072B2 | 12              | 325                 |
|       | 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 IS694:1990 (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*. |   |
| 8  | 120 / 0.29                         | 36                                    | WST0080PECM*. |   |

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

## Submersible Cables (Flat Cables) as per IS694:1990 (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*. |   |
| 8  | 120 / 0.29                         | 36                                    | WS00080PECM*. |   |
| 10   | 80 / 0.4                           | 42                                    | WS00100PECM*. |   |
| 16   | 126 / 0.4                          | 57                                    | WS00160PECM*. |   |

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

## XLPE Submersible cables

### Features :

- ◆ Cross-linked material offers higher withstand capability to temperature and voltage fluctuations
- ◆ Higher current rating optimizes cable size requirement
- ◆ Higher overload capacity and higher short circuit rating ensures better performance
- ◆ Due to better abrasion, corrosion and moisture resistance, longer cable life

## Submersible Cables (Flat Cables) as per IS694:1990 (Extra Thick XLPE) [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                           | 22                                    | WST0015XECEM*. | Please refer Submersible Flat Cables Price List |
| 2.5  | 36 / 0.3                           | 29                                    | WST0025XECEM*. |   |
| 4  | 56 / 0.3                           | 38                                    | WST0040XECEM*. |   |
| 6  | 84 / 0.3                           | 47                                    | WST0060XECEM*. |   |

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

## Submersible Cables (Flat Cables) as per IS694:1990 (Standard XLPE) [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                           | 22                                    | WS00015XECEM*. | Please refer Submersible Flat Cables Price List |
| 2.5  | 36 / 0.3                           | 29                                    | WS00025XECEM*. |   |
| 4  | 56 / 0.3                           | 38                                    | WS00040XECEM*. |   |
| 6  | 84 / 0.3                           | 47                                    | WS00060XECEM*. |   |

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<sup>#</sup> 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

# Except Solar Inverter. For Solar Inverter warranty period and policy please refer Solar Inverter Price List & warranty policy terms.

## Electrical Standard Products (ESP) Offices:

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