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2019

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Digital Enabled Smart Agriculture



**Maximum Retail Prices  
Agricultural Electrical Products  
Effective from 01-05-2022**



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.



# LTLK Connect App

Connect Anywhere, Anytime...



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

**Convenience of technology at your finger tips for remote operation**

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 Mumbai - 400 072, INDIA [www.Ltnebg.com](http://www.Ltnebg.com)

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# DIGITAL SINGLE PHASE CONTROLLER



## Manual version

## FEATURES

## Auto version

- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- Start & Run Capacitor
- Bypass Mode
- Off Timer
- Digital Display
- Capacitor cut-off
- Water Tank Status Indication
- 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
- Timer Compensation



The power of flexibility and versatility

# SMART CONTROLLER

## Fully Automatic Star Delta

All-in-One Controller



**COMPLETE AND ACCURATE DIGITAL PROTECTION**

Gives emergency alert to your mobile

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



Digital enabled smart infrastructure

Explore the futuristic technology at your fingertips with LTK Connect App



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# M-POWER Pro

## Benefits of both, Communication & Protection



### FEATURES



#### EASE OF OPERATION

Ease and convenience in operating pump from anywhere, anytime through SMS, NRS and LTK 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 LTK 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.



*Technology at your finger tips*



LTK Connect APP



Product Video

*Easy installation with only 3 wire connections*

**L&T Electrical & Automation,  
Electrical Standard Products**  
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Gate No. 5, Saki Vihar Road, Powai  
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**L&T Electrical & Automation**

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### \*Remote Operation

All L&T 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 (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum HP Rating)	3 Phase DOL (Direct On-Line)							
	Controller			Controller with WLC		SMART Controller		
	MU-G6	MU-G10	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 (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum HP Rating)	3 Phase FASD (Fully Automatic Star-Delta)											
	Controller										Controller with WLC	
	MU-G15	MU-G17.5	MU-G20	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 (Based On Relay Range And Maximum 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 (Based On Relay Range And Maximum 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) Starter Type		Relays used															
		1-1.6	1.5-2.5	2.5-4	4-6.5	6-10	9-14	9-15	11-18	13-21	13-22	14-23	15-25	20-32	20-33	24-38	28-42
MK1		MK1	MK1	MK1	MK1	MK1		MK1		MK1							
MK2										MK2				MK2			
MU1							MU2						MU2				
MU1H													MU2	MU2			
MU2										MU2				MU2		MU2	
MU3																MU2	MU2
MB1								MN2									
MB2											MN2						
ML1.5							ML2/3										
ML2							ML2/3			ML2/3				ML2/3			
MU-1A				MU1	MU1	MU2				MU2			MU2				
MU-1HA													MU2	MU2			
MU-2A										MU2						MU2	
MU-3A																MU2	MU2
Relay Range (A) 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	28-42
MK1		MK1	MK1	MK1	MK1	MK1		MK1		MK1							
MK2										MK2				MK2			
MU1							MU1						MU1				
MU1H													MU1H	MU1H			
MU2										MU2				MU2		MU2	
MU3																MU3	MU3
MB1								MU1									
MB2											MU1						
ML1.5							ML1.5										
ML2							ML2			ML2				ML1.5			
MU-1A				MU1	MU1	MU1				MU1			MU1				
MU-1HA													MU1H	MU1H			
MU-2A										MU2				MU2		MU2	
MU-3A																MU3	MU3

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

Relay Range (A) 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		
Relay Range (A) 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		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	Relay Range (A)												
MK1	4-6.5	MK1	MK1	MK1		MK1		MK1					
MK2	4-6.5							MK2		MN2			
MU1	6-10			MU2			MU2						
MU2	6-10						MU2			MU2			
MU3	6-10											MU2	MU2
MB1	6-10				MN2				MN2				
MB2	6-10								MN2		MN2		
ML1.5	6-10			ML2/3			ML2/3			ML2/3			
ML2	6-10			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
MK1	4-6.5	MK1	MK1	MK1		MK1		MK1					
MK2	4-6.5							MK2			MK2		
MU1	6-10			MU1			MU1						
MU2	6-10						MU2				MU2		
MU3	6-10											MU3	MU3
MB1	6-10				MU1				MU1				
MB2	6-10								MU2		MU2		
ML1.5	6-10			ML1.5			ML1.5			ML1.5			
ML2	6-10			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	20-32	20-33	24-38	28-42	30-50	36-60	45-75	66-110
Controller Type	Relay Range (A)														
MU-G6	4-6.5	MK1	MK1	MK1											
MU-G10	4-6.5	MU1	MU1	MU2		MU2									
MU-G10H	4-6.5						MU2				MU2				
MU-G15	6-10		MK1	MK1	MK1		MK1								
MU-G17.5	6-10						MK2	MK2							
MU-G20	6-10			MU2		MU2									
MU-G20H	6-10							MU2			MU2				
MU-G25	6-10								MU2		MU2				
MU-G30	6-10							MN5				MN5			
MUG40	6-10											MN5	MN5		
MU-G50	6-10											MN5		MN5	
MU-G75	6-10													MN5	MN5
MU-G10W	4-6.5	MU1	MU1	MU2		MU2		MU2			MU2				
MU-G20W	4-6.5			MU2		MU2		MU2			MU2				
MU-G30W	4-6.5											MN5			



# Starters and Controllers Offerings & Composition

## Composition For Three Phase Controllers

Relay Range (A) Controller Type	Contactors used														Single Phase Preventer Used
	4-6.5	6-10	9-14	11-18	13-21	13-22	20-32	20-33	24-38	28-42	30-50	36-60	45-75	66-110	
MU-G6	MK1	MK1	MK1												Sz5
MU-G10	MU1	MU1	MU1		MU1										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-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 Range (A) SMART Controller Type	4-22	13-32	13-42	20-42	24-42	20-50	30-60	30-75	45-90	SCPD
	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									63A 3P MCB K Curve
MU-G20HS		MU1H*	MU2 <sup>#</sup>							*100A 3P MCB K Curve #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 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.			Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
		Coil Voltage 360V-W (200V - 400V)	Coil Voltage 360V	Coil Voltage 400/440V		
0.25 HP	0.6 - 1			SS96210POKO	1	2570
0.5 HP	1 - 1.6		SS96210COMO	SS96210POMO	1	2570
1 HP	1.5 - 2.5		SS96210COPO	SS96210POPO	1	2570
2 HP	2.5 - 4		SS96210CORO	SS96210PORO	1	2570
4 HP	4 - 6.5	SS96210SOTO	SS96210COTO	SS96210POTO	1	2570
6 HP	6 - 10	SS96210SOVO	SS96210COVO	SS96210POVO	1	2570
7.5 HP	9 - 14	SS96210SOAO	SS96210COAO	SS96210POAO	1	2570
7.5 HP	11 - 18	SS96211SOCO	SS96211COCO	SS96211POCO	1	2635
7.5 HP	13 - 22	SS96228SODO	SS96228CODO	SS96228PODO	1	2700

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 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.		Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
		Coil Voltage 360V	Coil Voltage 440V		
6 HP	4 - 6.5	SS96255COTO		1	8995
10 HP	6 - 10	SS96255COVO	SS96255POVO	1	8995
12.5 / 15 HP	9 - 14	SS96255COAO	SS96255POAO	1	8995
15 HP	11 - 18	SS96258COCO	SS96258POCO	1	9070
15 HP	13 - 22	SS96260CODO	SS96260PODO	1	9180

## MK1 FASD Starters [HSN Code 8536]



Interior View of MK1 FASD

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 440V		
6 HP	4 - 6.5	SS96254COTO	SS96254POTO	1	9995
10 HP	6 - 10	SS96254COVO	SS96254POVO	1	9995
12.5 / 15 HP	9 - 14	SS96254COAO	SS96254POAO	1	9995
15 HP	11 - 18	SS96257COCO	SS96257POCO	1	10090
15 HP	13 - 22	SS96259CODO	SS96259PODO	1	10150



# 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	685
	Single moving contact	SS910090000	10	70
	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	310
	Thermal timer without combination coil	SS902240000	1	835
	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	260
	230 / 250V	SS900450000	10	260
	360V	SS901650000	10	260
	400 / 440V	SS900470000	10	260
Wide Band Coil	360V-W (200V - 400V)	SS909930000	10	290



MK1 Contactor

## MK1 Contactors [HSN Code 8536]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Contactors	220V	SS95200K000	10	1820
	230 / 250V	SS95200N000	10	1820
	360V	SS95200C000	10	1820
	360V-W (200V - 400V)	SS95200S000	10	1820
	400 / 440V	SS95200P000	10	1820



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	605
	Combination coils for 360V	SS904460000	10	605



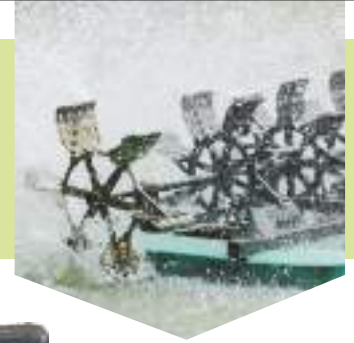
MK1 Relay

## MK1 Relays [HSN Code 8536]

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK1 Relays	0.6 - 1A	SS9003500KO	10	1050
	1 - 1.6A	SS9003500MO	10	1050
	1.5 - 2.5A	SS9003500PO	10	1050
	2.5 - 4A	SS9003500RO	10	1050
	4 - 6.5A	SS9003500TO	10	1050
	6 - 10A	SS9003500VO	10	1050
	9 - 14A	SS9003500AO	10	1050
	11 - 18A	SS9003600CO	10	1080
13 - 22A	SS9188800DO	10	1190	



# MK2 Starters



## MK2 DOL Starters [HSN Code 8536]



Interior View of MK2 DOL

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 360V	Coil Voltage 400/440V		
7.5 HP	13 - 22	CS90947SODO	CS90947CODO	CS90947PODO	1	3040
7.5 HP	20 - 32	CS90947SOEO	CS90947COEO	CS90947POEO	1	3040

## MK2 SASD Starters [HSN Code 8536]



Interior View of MK2 SASD

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 360V	Coil Voltage 400/440V		
15 HP	13-22	CS91582SODO	CS91582CODO	CS91582PODO	1	9980
15 HP	20-32	CS91582SOEO	CS91582COEO	CS91582POEO	1	9980

## MK2 FASD Starters [HSN Code 8536]



Interior View of MK2 FASD

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 400/440V		
15 HP	13-22	CS91583CODO	CS91583PODO	1	11120
15 HP	20-32	CS91583COEO	CS91583POEO	1	11120

## Spares for MK2 Starters [HSN Code 8538]



MK2 Spares

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK2 Spares	Spare kit with hardware (4 sets of contacts)	CS90956O000	50	970
	Single moving contact	CS90951O000	10	90
	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. (Nos.)	M.R.P. (₹) Per Unit
MK1 / MK2 Standard Operating Coil	220V	SS90044O000	10	260
	230 / 250V	SS90045O000	10	260
	360V	SS90165O000	10	260
	400 / 440V	SS90047O000	10	260
	Wide Band Coil	360V-W (200V - 400V)	SS90993O000	10

## MK2 Contactors [HSN Code 8536]



MK2 Contactor

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK2 Contactors	360V	CS90945COOO	10	2010
	360V-W (200V - 400V)	CS90945SOOO	10	2010
	400 / 440V	CS90945POOO	10	2010

## MK2 Relays [HSN Code 8536]



MK2 Relay

	Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MK2 Relays	13 - 22A	CS90946OODO	10	1320
	20 - 32A	CS90946OOEO	10	1320



# MU / MB Starters



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

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	4305
	10 HP	13 - 21	SS95647COCO	SS95647DOCO	10	4465
	10 HP	15 - 25	SS95647CODO	SS95647DODO	10	4555
MU1H DOL (with MU relay)	10 HP	15 - 25	CS90622CODO	CS90622DODO	10	4750
	12.5 HP	20 - 32	CS90622COEO	CS90622DOEO	10	4995
MU2 DOL (with MU relay)	12.5 HP	13 - 21	SS95648COCO	SS95648DOCO	10	5595
	15 HP	20 - 32	SS95648COEO	SS95648DOEO	10	5980
	15 HP	24 - 38	SS95648COGO	SS95648DOGO	10	6130
MU3 DOL (with MU relay)	15 HP	24 - 38	CS90613COGO	CS90613DOGO	10	6800
	17.5 HP	28 - 42	CS90613COFO	CS90613DOFO	10	7060
MB1 DOL (with MN relay)	7.5 HP	9 - 15	SS95649COBO	SS95649DOBO	8	4890
	10 HP	14 - 23	SS95649CODO	SS95649DODO	8	4995
MB2 DOL (with MN relay)	12.5 HP	14 - 23	SS95650CODO	SS95650DODO	8	6680
	15 HP	20 - 33	SS95650COEO	SS95650DOEO	8	6985



Interior View of MU DOL

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

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	11820
	15 HP	13 - 21	SS95891COCO	SS95891DOCO	1	11985
MU2 SASD (with MU relay)	20 HP	13 - 21	SS95893COCO	SS95893DOCO	1	14955
	30 HP	20 - 32	SS95893COEO	SS95893DOEO	1	15315
MB1 SASD (with MN relay)	15 HP	14 - 23	SS95895CODO	SS95895DODO	1	14455
MB2 SASD (with MN relay)	20 HP	14 - 23	SS95897CODO	SS95897DODO	1	16995
	30 HP	20 - 33	SS95897COEO	SS95897DOEO	1	17400



Interior View of MU SASD

Note:- For MU3 SASD, Please refer page no 20

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

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	13645
	15 HP	13 - 21	SS95890COCO	SS95890DOCO	1	13785
MU2 FASD (with MU relay)	20 HP	13 - 21	SS95892COCO	SS95892DOCO	1	16520
	30 HP	20 - 32	SS95892COEO	SS95892DOEO	1	16880
MB1 FASD (with MN relay)	12.5 HP	9 - 15	SS95894COBO	SS95894DOBO	1	15165
	15 HP	14 - 23	SS95894CODO	SS95894DODO	1	15320
MB2 FASD (with MN relay)	20 HP	14 - 23	SS95896CODO	SS95896DODO	1	18790
	30 HP	20 - 33	SS95896COEO	SS95896DOEO	1	19145



Interior View of MU FASD

Note:- MN relay is with single phase prevention feature. Note:- For MU3 FASD, Please refer page no 20





# Spares for MU / MB Starters



MU1 Contactor



MU1H Contactor



MU2 Contactor



MU3 Contactor

## 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	2695
			MU1 415V	CS94007D000	10	2695
MU1H Contactor	20A	55A	MU1H 360V	CS90623C000	10	2895
			MU1H 415V	CS90623D000	10	2895
MU2 Contactor	25A	63A	MU2 360V	CS94008C000	10	3845
			MU2 415V	CS94008D000	10	3845
MU3 Contactor	32A	63A	MU3 360V	CS90609C000	10	4595
			MU3 415V	CS90609D000	10	4595



MU1 Relay



MU2 Relay

## MU Relay [HSN Code 8536]

Component	Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU1 Relay	4 - 6.5A	SS96557OOTO	1	1350
	6 - 10A	SS96557OOVO	1	1350
MU2 Relay	9 - 14A	SS95979OOAO	1	1540
	13 - 21A	SS95979OOCO	1	1630
	15 - 25A	SS95979OODO	1	1775
	20 - 32A	SS95979OOEO	1	2020
	24 - 38A	SS95979OOGO	1	2190
	28 - 42A	SS95979OOFO	1	2380

## MU Contactor Spares [HSN Code 8538]



MU Contact Bridge

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	155
MU1H single moving contact	CS91102O000	1	225
MU2 single moving contact	CS94996O000	1	305
MU3 single moving contact	CS91103O000	1	415
MU-Add ON Block - 1NO + 1NC (LHS)	SS94072O000	10	305



MU Spare Kit



MU Coil

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

Component	Type	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare Kit	MU1	CS94010O000	1	1065
	MU1H	CS90624O000	1	1405
	MU2	CS94011O000	1	1980
	MU3	CS90612O000	1	2450
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	130
	MU2	CS94337O000	1	130
Spare Housing	MU1	CS94998O000	10	340
	MU1H	CS91098O000	10	340
	MU2	CS94999O000	10	340
	MU3	CS91060O000	10	340



MU Spare Housing



Relay Extension Knob



# ML Starters



## ML DOL Starters [HSN Code 8536]



Interior View of ML 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 440V		
ML1.5 DOL	7.5 HP	9 - 14	SS91854COAO	SS91854POAO	1	8165
	12.5 HP	13 - 21	SS91854COCO	SS91854POCO	1	8165
	15 HP	20 - 32	SS91854COEO	SS91854POEO	1	8165
ML2 DOL (Heavy duty)	7.5 HP	9 - 14		SS90702POAO	1	14065
	10/12.5 HP	13 - 21	SS90702COCO	SS90702POCO	1	14065
	20 HP	20 - 32	SS90702COEO	SS90702POEO	1	14065



Interior View of ML SASD

## ML SASD Starters [HSN Code 8536]

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 440V		
ML1.5 SASD	20 HP	13 - 21	SS91856COCO	SS91856POCO	1	19955
	25 HP	20 - 32	SS91856COEO	SS91856POEO	1	19955
ML2 SASD (Heavy duty)	20 HP	13 - 21	SS90707COCO	SS90707POCO	1	35235
	35 HP	20 - 32	SS90707COEO	SS90707POEO	1	35235



Interior View of ML FASD

## ML FASD Starters [HSN Code 8536]

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 440V		
ML1.5 FASD	12.5 HP	9 - 14	SS91855COAO	SS91855POAO	1	22660
	20 HP	13 - 21	SS91855COCO	SS91855POCO	1	22660
	25 HP	20 - 32	SS91855COEO	SS91855POEO	1	22660
ML2 FASD (Heavy duty)	12.5 HP	9 - 14		SS90705POAO	1	36665
	20 HP	13 - 21	SS90705COCO	SS90705POCO	1	36665
	35 HP	20 - 32	SS90705COEO	SS90705POEO	1	36665



# 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	8140
	ML3W	40	45	2 NO + 2 NC	CS90907L000	1	11995
	ML4W	70	100	2 NO + 2 NC	CS96006L000	1	19635
	ML6W	110	125	2 NO + 2 NC	CS90168L000	1	30985



**Standard Operating Coil ML1.5**

## ML Coil [HSN Code 8538]

Component	Voltage	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Standard Operating Coils for ML1.5	240V	SS90873B000	10	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



**Standard Operating Coil ML2 / ML3**

## ML1.5 [HSN Code 8538]

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



**Spare kit**

## ML2 [HSN Code 8538]

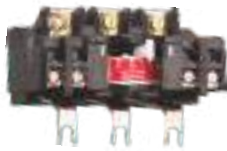
Spare kit without coil	ML2	SS95307O000	10	4040
Moving contacts kit	ML2	SS92818O000	10	1095
Front Housing & Moving Bridge kit	ML2	ST23866O000	10	1095

## ML Relay [HSN Code 8536]

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit	
(Directly Operated)	<b>ML1</b>				
	4 - 6.5	SS91858OOTO	10	2960	
	6 - 10	SS91858OOVO	10	2960	
Direct Mounting	10 - 16	SS91858OOBO	10	2960	
	<b>ML2 / ML3</b>				
	9 - 14	SS91859OOAO	2	4370	
(Directly Operated)	13 - 21	SS91859OOCO	2	4370	
	Direct Mounting	20 - 32	SS91859OOEO	2	4370
		28 - 42	SS91859OOF0	2	4370



**ML1 Relay**



**ML2 / ML3 Relay**



# 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	2305
0.25 HP	1.5 - 2.5	CS90319KOPO	1	2305
0.5 HP	2.5 - 4	CS90319KORO	1	2305
0.75 HP	4 - 6.5	CS90319KOTO	1	2305
1 HP	6 - 10	CS90319KOVO	1	2305
2 HP	9 - 14	CS90319KOAO	1	2305
2 HP	11 - 18	CS90319KOCO	1	2320
3 HP	13 - 22	CS90319KODO	1	2350



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	1570
1.25 HP	6.5 - 11	SS97227OOVO	1	1570
2 HP	10.5 - 17.5	SS97227OOBO	1	1570
3 HP	12 - 20	SS97227OOCO	1	1570



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	2050
0.25 HP	0.6 - 1	SS972100OKO	1	2050
0.5 HP	1 - 1.6	SS972100OMO	1	2050
1.25 HP	1.5 - 2.5	SS972100OPO	1	2050
2 HP	2.5 - 4	SS972100ORO	1	2050
4 HP	4 - 6.5	SS972100OTO	1	2050
6 HP	6 - 10	SS972100OVO	1	2050
7.5 HP	9 - 15	SS972100OBO	1	2050
7.5 HP	11 - 18	SS972100OCO	1	2050



# 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	6165
	5 HP	6 - 10	CS90898COVO	CS90898DOVO	1	6165
	7.5 HP	9 - 14	CS90898COAO	CS90898DOAO	1	6270
	10 HP	13 - 21	CS90898COCO	CS90898DOCOCO	1	6380
MU-1HA DOL (with Sz5 SPPR)	10 HP	15 - 25	CS90898CODO	CS90898DODO	1	6510
	10 HP	15 - 25	CS90899CODO	CS90899DODO	1	6665
	12.5 HP	20 - 32	CS90899COEO	CS90899DOEO	1	6860
MU-2A DOL (with Sz5 SPPR)	12.5 HP	13 - 21	CS90900COCO		1	7555
	15 HP	20 - 32	CS90900COEO	CS90900DOEO	1	7860
	15 HP	24 - 38	CS90900COGO	CS90900DOGO	1	7990
MU-3A DOL (with Sz5 SPPR)	15 HP	24 - 38	CS90901COGO	CS90901DOGO	1	8385
	17.5 HP	28 - 42	CS90901COFO	CS90901DOFO	1	8585



# MF-G1 Single Phase Submersible Pump Controllers

## MF-G1 Controller [HSN Code 8536]

Starter Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Relay Range (A)	Cat. No.	Run Condenser 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MF-G1 with Ammeter and Voltmeter	0.5 HP	6.5 - 11	SS97728OOVE	1 x 36	3625
MF-G1 with Ammeter Only	0.5 HP	6.5 - 11	SS97734OOVC	1 x 25	3330
MF-G1 with Ammeter and Voltmeter	1 HP	6.5 - 11	SS97730OOVE SS97730OOVG	1 x 36 1 x 50	3775
MF-G1 with Ammeter Only	1 HP	6.5 - 11	SS97736OOVE SS97736OOVG	1 x 36 1 x 50	3480
MF-G1 with Ammeter and Voltmeter	1 HP	12 - 20	SS97730 OOCE SS97730OOCG	1 x 36 1 x 50	3775
MF-G1 with Ammeter Only	1 HP	12 - 20	SS97736OOCE SS97736OOCG	1 x 36 1 x 50	3480
MF-G1 with Ammeter and Voltmeter	1.5 HP	6.5 - 11	SS97731OOVG SS97731OOVF	1 x 50 2 x 36	3895
MF-G1 with Ammeter Only	1.5 HP	6.5 - 11	SS97737OOVF	2 x 36	3600
MF-G1 with Ammeter and Voltmeter	1.5 HP	12 - 20	SS97731OOCG SS97731OOCF	1 x 50 2 x 36	3895
MF-G1 with Ammeter Only	1.5 HP	12 - 20	SS97737OOCG SS97737OOCF	1 x 50 2 x 36	3600
MF-G1 with Ammeter and Voltmeter	2 HP	12 - 20	SS97732OOCG SS97732OOCF	1 x 50 2 x 36	3965
MF-G1 with Ammeter Only	2 HP	12 - 20	SS97738OOCG SS97738OOCF SS97738OOCH	1 x 50 2 x 36 2 x 50	3655

With MF1 Starter



# Utilize the power of Sun with our Solar Controller



Explore the LTK Connect App



With Maximum Power Point Tracking (MPPT) to deliver maximum water during the day



Can be operated on Solar or on Grid power supply



Remote ON/OFF, parameter setting, monitoring and troubleshooting through mobile and Android app (In-Built GSM, GPS and GPRS)



Error proof and can connect Solar output with any polarity to the panel



Automatic Start Stop as per the sun-ray intensity



Suitable for outdoor installation



Factory prewired panel ensures easy installation and less maintenance



Can be operated through Android App for easy interface



Maximize the utilization of solar power in your farm with our Solar controller.





# SOLAR Controller



## Features:

- ◆ With Maximum Power Point Tracking (MPPT) to deliver maximum water during the day
- ◆ Grid compatible: Can be operated on Solar or on Grid power supply
- ◆ Remote ON/OFF, parameter setting, monitoring and trouble shooting through mobile (In-built GSM, GPS and GPRS), LTLK Connect android app
- ◆ Reverse Polarity Compatibility: Error proofed, even you connect solar output with any polarity to the panel
- ◆ Automatic Start / Stop as per Sun-ray intensity
- ◆ With in-built 4P and 3P MCB for Solar and Grid mode
- ◆ Suitable for outdoor installation
- ◆ Factory prewired panel ensures easy installation and less maintenance



LTLK Connect App



Product videos

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



MUG SOLAR

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
		CS91463PO10	MU-G3 SOLAR Controller without RMU	1	41025
5 HP	MU-G5 SOLAR	CS91464PT10	MU-G5 SOLAR Controller with RMU	1	49120
		CS91464PO10	MU-G5 SOLAR Controller without RMU	1	44330
7.5 HP	MU-G7.5 SOLAR	CS91465PT10	MU-G7.5 SOLAR Controller with RMU	1	72930
		CS91465PO10	MU-G7.5 SOLAR Controller without RMU	1	68145
10 HP	MU-G10 SOLAR	CS91466PT10	MU-G10 SOLAR Controller with RMU	1	76010
		CS91466PO10	MU-G10 SOLAR Controller without RMU	1	71225

## SOLAR Drive [HSN Code 8504]



SOLAR DRIVE

Suitable for AC Induction Pump/Motor 3Ø, 400V/415V, 50Hz	Product	Cat. No.	Description	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
3 HP	Solar Drive	LTVF-P40007BAA	Px2000 Solar Drive for MU-G3 SOLAR	1	26950
5 HP		LTVF-P40010BAA	Px2000 Solar Drive for MU-G5 SOLAR	1	30250
7.5 HP		LTVF-P40016BAA	Px2000 Solar Drive for MU-G7.5 SOLAR	1	50380
10 HP		LTVF-P40023BAA	Px2000 Solar Drive for MU-G10 SOLAR	1	58300



# SMART Controller



With in-built short-circuit protection device



LTLK Connect App



Product videos

## Features:

- ◆ In-built anti-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)
- ◆ 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

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	18490
South	English, Hindi, Kannada, Telugu, Tamil	MU-G6S	6 HP	4 - 22	CS91206CSDO	CS91206PSDO	1	18490
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G6S	6 HP	4 - 22	CS91206CNDO	CS91206PNDO	1	18490
East	English, Hindi, Odia, Assamese, Bengali	MU-G6S	6 HP	4 - 22	CS91206CEDO	CS91206PEDO	1	18490

## 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	19575
		MU-G10HS	10	20 - 42	CS91207CCFO	CS91207DCFO	1	20655
South	English, Hindi, Kannada, Telugu, Tamil	MU-G10S	10	4 - 22	CS91205CSDO	CS91205DSDO	1	19575
		MU-G10HS	10	20 - 42	CS91207CSFO	CS91207DSFO	1	20655
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G10S	10	4 - 22	CS91205CNDO	CS91205DNDO	1	19575
		MU-G10HS	10	20 - 42	CS91207CNFO	CS91207DNFO	1	20655
East	English, Hindi, Odia, Assamese, Bengali	MU-G10S	10	4 - 22	CS91205CEDO	CS91205DEDO	1	19575
		MU-G10HS	10	20 - 42	CS91207CEFO	CS91207DEFO	1	20655

NEW

## 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	24600
South	English, Hindi, Kannada, Telugu, Tamil	MU-G15S	15 HP	4 - 22	CS91529CSDO	CS91529PSDO	1	24600
East	English, Hindi, Assamese, Odia, Bengali	MU-G15S	15 HP	4 - 22	CS91529CEDO	CS91529PEDO	1	24600





# SMART Controller



With in-built short-circuit protection device



## NEW 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	27900
South	English, Hindi, Kannada, Telugu, Tamil	MU-G15HS	15 HP	13 - 32	CS91530CSEO	CS91530PSEO	1	27900
East	English, Hindi, Assamese, Odia, Bengali	MU-G15HS	15 HP	13 - 32	CS91530CEEO	CS91530PEEO	1	27900

## NEW 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	27100
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20S	20 HP	4 - 22	CS91531CSDO	CS91531DSDO	1	27100
East	English, Hindi, Assamese, Odia, Bengali	MU-G20S	20 HP	4 - 22	CS91531CEDO	CS91531DEDO	1	27100
North	English, Hindi, Marathi, Gujarati, Punjabi	MU-G20S	20 HP	13 - 22	CS91531CNEO	CS91531DNEO	1	30500
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20S	20 HP	13 - 22	CS91531CSEO	CS91531DSEO	1	30500
East	English, Hindi, Assamese, Odia, Bengali	MU-G20S	20 HP	13 - 22	CS91531CEEO	CS91531DEEO	1	30500

## NEW 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	35500
South	English, Hindi, Kannada, Telugu, Tamil	MU-G20HS	20 HP	13 - 42	CS91532CSFO	CS91532DSFO	1	35500
East	English, Hindi, Assamese, Odia, Bengali	MU-G20HS	20 HP	13 - 42	CS91532CEFO	CS91532DEFO	1	35500

## NEW 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	37900
South	English, Hindi, Kannada, Telugu, Tamil	MU-G25S	25 HP	24 - 42	CS91533CSFO	CS91533DSFO	1	37900
East	English, Hindi, Assamese, Odia, Bengali	MU-G25S	25 HP	24 - 42	CS91533CEFO	CS91533DEFO	1	37900



# SMART Controller



**NEW**

## 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	49900
South	English, Hindi, Kannada, Telugu, Tamil	MU-G30S	30 HP	20 - 50	CS91651LSGO	1	49900
East	English, Hindi, Assamese, Odia, Bengali	MU-G30S	30 HP	20 - 50	CS91651LEGO	1	49900

**NEW**

## 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	56900
South	English, Hindi, Kannada, Telugu, Tamil	MU-G40S	40 HP	30 - 60	CS91652LSTO	1	56900
East	English, Hindi, Assamese, Odia, Bengali	MU-G40S	40 HP	30 - 60	CS91652LETO	1	56900

**NEW**

## 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	82500
South	English, Hindi, Kannada, Telugu, Tamil	MU-G50S	50 HP	30 - 75	CS91653LSJO	1	82500
East	English, Hindi, Assamese, Odia, Bengali	MU-G50S	50 HP	30 - 75	CS91653LEJO	1	82500

**NEW**

## 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	104900
South	English, Hindi, Kannada, Telugu, Tamil	MU-G75S	75 HP	45 - 90	CS91654LSKO	1	104900
East	English, Hindi, Assamese, Odia, Bengali	MU-G75S	75 HP	45 - 90	CS91654LEKO	1	104900



DOL CT SPARE

FASD CT Spare



i-Smart battery pack

## SMART Controller Spares [HSN Code 8538]

Description	Cat. No.	Std.Pkg.(Nos.)	M.R.P.(₹) Per Unit
<i>i</i> -Smart for DOL without WLC	CS914130*OO	1	15865
<i>i</i> -Smart for FASD without WLC(upto 25HP)	CS914140*OO	1	19900
<i>i</i> -Smart for FASD without WLC (30-75HP)	CS914150*OO	1	23900
Spare CT Assembly DOL (And FASD Upto 25 HP)	CS910950OOO	1	1245
Spare CT Assembly FASD 30-75 HP	CS916480OOO	1	1800
Spare Battery Pack	CS914170OOO	1	1255

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

# Upcoming New Products

NEW

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

Starter 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)			
MU-G17.5 FASD	17.5 HP	13 - 22	CS91880SODO		1	16250
		20 - 32	CS91880SOEO		1	16250

NEW

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

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-G25 FASD	25 HP	24 - 38	CS91969COGO	CS91969DOGO	1	24800
		28 - 42	CS91969COFO	CS91969DOFO	1	24990

NEW

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

Description	Cat. No.	Std. Pkg. (Nos.)
Spare Digital Module Manual	CS920250000	1
Spare Digital Module Auto	CS920260000	1

## MU3 Three Phase Star Delta Starters

With MU3 Contactor & MU Relay

### MU SASD Starters [HSN Code 8536]

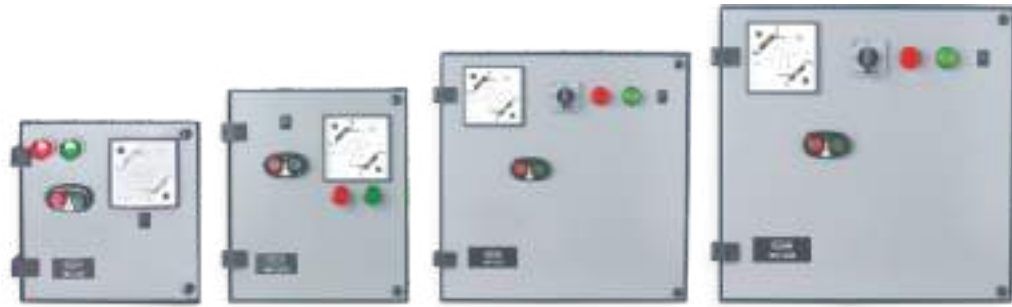
Starter Type	Suitable for Pump/Motor 3Ø, 415V, 50Hz	Relay Range (A)	Cat. No.		Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
			Coil Voltage 360V	Coil Voltage 415V		
MU3 SASD (With MU Relay)	35 HP	24 - 38	CS91885COGO	CS91885DOGO	1	18440
MU3 SASD (With MU Relay)	35 HP	28 - 42	CS91886COFO	CS91886DOFO	1	18610

### MU FASD Starters [HSN Code 8536]

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		
MU3 FASD (With MU Relay)	35 HP	24 - 38	CS91887COGO	CS91887DOGO	1	20180
MU3 FASD (With MU Relay)	35 HP	28 - 42	CS91888COFO	CS91888DOFO	1	20355



# MU-G6 / 10 / 15 / 20 Three Phase Submersible Pump Controllers (with Single Phase Preventer)



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



Interior View of MU-G6 DOL

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	7685
	5 HP	6 - 10	360V-W (200V-400V)	SS97756COVO	1	7685
	6 HP	9 - 14	360V-W (200V-400V)	SS97756COAO	1	7685

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



Interior View of MU-G10 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-G10 DOL	3	2.2	4 - 6.5	SS95983COTO	SS95983DOTO	1	8845
	5	3.7	6 - 10	SS95983COVO	SS95983DOVO	1	8845
	6	4.5	9 - 14	SS95983COAO	SS95983DOAO	1	8975
	7.5/10	5.5/7.5	13 - 21	SS95983COCO	SS95983DOCOC	1	9090
MU-G10H DOL (Heavy duty)	10	7.5	20 - 32	SS95974COEO	SS95974DOEO	1	10225
	10	7.5	28 - 42	SS95974COFO	SS95974DOFO	1	10540

## 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	14830
	10	7.5	9 - 14	CS94091SOAO	1	14830
	15	11	11 - 18	CS94091SOCO	1	14965
	15	11	13 - 22	CS94091SODO	1	15030

## 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	17415
	15/20	11/15	13 - 21	SS95984COCO	SS95984DOCOC	1	17510
MU-G20H FASD (Heavy duty)	20	15	20 - 32	SS95975COEO	SS95975DOEO	1	21345
	20	15	28 - 42	SS95975COFO	SS95975DOFO	1	21800



# 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	33650
	30 HP	30 - 50	380V	CS96008COGO	1	34445



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	41390
	40 HP	36 - 60	380V	CS90908LOTO	1	42085



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	55235
	50 HP	45 - 75	380V	CS96009COJO	1	56905



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	78970
	75 HP	66 - 110	380V	CS96451LOKO	1	78970

## 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



# 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	12100
	5	3.7	6 - 10	CS91037COVO	CS91037DOVO	1	12100
	7.5	5.5	9 - 14	CS91037COAO	CS91037DOAO	1	12245
MU-G10W DOL (Heavy duty) with in-built WLC	10	7.5	13 - 21	CS91037COCO	CS91037DOCO	1	12355
	10	7.5	20 - 32		CS91037DOEO	1	13660
	10	7.5	28 - 42	CS91037COFO		1	13955

## 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	21285
	20	15	13 - 21	CS91038COCO	CS91038DOCO	1	21375
MU-G20W FASD (Heavy duty) with in-built WLC	20	15	20 - 32	CS91038COEO	CS91038DOEO	1	24995
	20	15	28 - 42		CS91038DOFO	1	25495

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



Interior View of  
MU-G30W FASD

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	39565



# 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

With Settable Time ON Delay 30sec - 5min



SPPR Type Sz5 (7 Wire & 6 Wire)

With Settable Time ON Delay 30sec - 5min



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	445

## 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	900
SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)	CS94824C000	1	900
SPPR type Sz5 (6 Wire), 380V (For MU-G6)	CS94824L000	1	900
SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)	CS94824D000	1	900
SPPR type SDz5, 360V (For MU-G20/20H)	XM818080000	1	1725
SPPR type SDz5, 380V (For MU-G30/40/50/75)	XM818070000	1	1725
SPPR type SDz5, 415V (For MU-G15/20/20H)	XM818090000	1	1725

## 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	95
Spare plug MU-10 (Bulk of 10)	ST155920000	1	100
Spare plug MU-15 (Bulk of 10)	ST155930000	1	120
Spare plug MU-20 (Bulk of 10)	ST155940000	1	120
Spare plug MU-30 (Bulk of 10)	ST155950000	1	125
Spare plug MU-50 (Bulk of 10)	ST155960000	1	130
Spare plug MU-75 (Bulk of 10)	ST155970000	1	130

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

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Electronic Star-Delta Timer type ST100 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



Manual version	FEATURES	Auto version
Microcontroller Based Solution	<ul style="list-style-type: none"> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> <li>○</li> </ul>	<b>All features of Manual Version</b>
Dry Run Protection		Inbuilt Water Level Controller
UV/OV Protection		WLC bypass feature
Current, Voltage Metering		Auto start capacitor switching
Start & Run Capacitor		Power on delay
Bypass Feature		Dry Run auto reset timer
Off Timer		Auto & Manual mode
Digital Display		RTC based daily ON/OFF timer
Capacitor cut-off		Timer count down display
Water Tank Status Indication		Cyclic timer
Automatic Current Setting		Timer Compensation



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

Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Start Capacitor 275V, 50Hz MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-Gi (Manual)	0.5 Hp	CS91321NAOC	80 / 100	1 x 25	3980
		CS91321NAOE	80 / 100	1 x 36	
	1 Hp	CS91322NBOE	100 / 120	1 x 36	4185
		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	4380
		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	4570
		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	4760

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

Type	Maximum Submersible Pump Rating at 1Ø, 230V, 50Hz	Cat. No.	Start Capacitor 275V, 50Hz MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-GiB (Auto)	0.5 Hp	CS91718NAOC	80 / 100	1 x 25	4995
		CS91718NAOE	80 / 100	1 x 36	
	1 Hp	CS91719NBOE	100 / 120	1 x 36	5190
		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 MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-GiB (Auto)	1.5 Hp	CS91720NCOG	120 / 150	1 x 50	5370
		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	5575
		CS91721NDOH	150 / 200	2 x 50	
		CS91721NDOJ	150 / 200	1 x 72	
		CS91721NEOF	200 / 250	2 x 36	
		CS91721NEOG	200 / 250	1 x 50	
3 Hp	CS91721NEOJ	200 / 250	1 x 72	5765	
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 MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
MR-GiA (Auto with WLC)	0.5 Hp	CS91331NAOC	80 / 100	1 x 25	5515
		CS91331NAOE	80 / 100	1 x 36	
	1 Hp	CS91332NBOE	100 / 120	1 x 36	5705
		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	5895
		CS91333NCOF	120 / 150	2 x 36	
		CS91333NCOJ	120 / 150	1 x 72	
		CS91333NDOG	150 / 200	1 x 50	
	2 Hp	CS91333NDOF	150 / 200	2 x 36	6075
		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	6280

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



Start Switch Stop Switch



Terminal Block



MR-GiA WLC Spare

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare start switch (Manual Version)	CS913630000	1	215
Spare stop switch (Manual Version)	CS913640000	1	155
Mounting kit accessory	CS913650000	1	140
Spare 5 way terminal block	CS913660000	1	165
Spare 2 way terminal block	CS913670000	1	120

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

Description	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
Spare Wlc Module	CS913680000	1	1140



# 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 MFD	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	-	4500
		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	-	4900
		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	-	5280
		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 MFD	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	5090				
		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							
	MR-G2	2 HP	SS97723BDCF	11 - 18	150 / 200	2 x 36	Yes	-	5555			
			SS97723BDCJ	11 - 18	150 / 200	1 x 72						
			SS97723BECF	11 - 18	200 / 250	2 x 36						
			SS97723BECJ	11 - 18	200 / 250	1 x 72						
			SS97723BDDF	13 - 22	150 / 200	2 x 36						
			SS97723BDDJ	13 - 22	150 / 200	1 x 72						
			SS97723BEDF	13 - 22	200 / 250	2 x 36						
			SS97723BEDG	13 - 22	200 / 250	1 x 50						
			SS97723BEDJ	13 - 22	200 / 250	1 x 72						
			SS96990BDCF	11 - 18	150 / 200	2 x 36				-	Yes	5315
			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							
		3 HP	SS97724BEDH	13 - 22	200 / 250	2 x 50	Yes	-	6140			
CS96468BEBH			16 - 26	200 / 250	2 x 50	-	Yes	5825				
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	-	8720				



# 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 MFD	Run Capacitor 440V, 50Hz MFD	M.R.P. (₹) Per Unit
0.5HP	CS91040BATC	4 - 6.5	80 / 100	1 x 25	9730
	CS91040BAVE	6 - 10	80 / 100	1 x 36	
1HP	CS91041BBVE	6 - 10	100 / 120	1 x 36	10140
	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	10645
	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	10885
	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	11275



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	1335
Water Level Controller (415V)(Double Tank application)	XM810530000	1	1335
Water Level Controller (240V) (Single Tank application)	XM810550000	1	1265
Water Level Controller (415V) (Single Tank application)	XM810560000	1	1265
WLC probes (set of 3 nos.)	XM810510000	1	445
WLC probes (set of 6 nos.)	XM810760000	1	900



# Spares for MR-G Submersible Pump Controller



MR-G  
Plug ON

MR-G  
Plug OFF

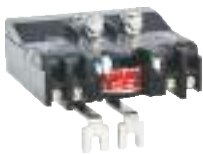
MR11W Aux.  
Contact Block



MU - 2P  
Contactor



MR 11W  
Contactor



MU - 2P  
Relay



MU-2P Coil

## 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

## 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

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

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

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

Component	Type	Cat. No.	Std.Pkg. (Nos.)	M.R.P. (₹) Per Unit
MU - 2P Relay	1 - 1.6A	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 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	905
Wiring Harness, MU-G10 (Flexible Type)	CS961300000	1	1285
Wiring Harness, MU-G10H (Flexible Type)	CS961340000	1	1670
Wiring Harness, MU-G15 (Flexible Type)	CS905670000	1	1895
Wiring Harness, MU-G20 (SDz5 SPPR) (Flexible Type)	CS961290000	1	2835
Wiring Harness, MU-G20H (SDz5 SPPR) (Flexible Type)	CS961350000	1	3020
Wiring Harness, MU-G30 (Flexible Type)	CS961280000	1	3710
Wiring Harness, MU-G50 (Flexible Type)	CS961270000	1	5280
Wiring Harness, MU-G75 (Flexible Type)	CS901710000	1	7585
Wiring Harness 2.5 sq. mm, MR-G2 (Flexible Type, For upto 11 - 18A Relay)	CS961330000	1	1045



# *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</i> -AD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>i</i> -ADS / <i>i</i> -ADSM	✓	✓	✓		✓*	✓*		✓	✓	✗	✓*	✓*
<i>i</i> -VDS / <i>i</i> -VDSM	✓	✓	✓		✓*	✓*		✓	✓	✗	✓*	✓*

\* 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</i> -AD	Dry run protection relay (current based)	CS90861B000				1	1245
<i>i</i> -AD	Dry run protection relay (current based)		CS90861C000	CS90861L000	CS90861D000	1	1275
<i>i</i> -ADS	Single phasing preventer & dry run protection relay (current based)		CS90862C000	CS90862L000	CS90862D000	1	2130
<i>i</i> -ADSM	Single phasing preventer & dry run protection relay + VI meter (current based)		CS90863C000	CS90863L000	CS90863D000	1	2705
<i>i</i> -VDS	Single phasing preventer & dry run protection relay (voltage based)		CS90866C000	CS90866L000	CS90866D000	1	1975
<i>i</i> -VDSM	Single phasing preventer & dry run protection relay + VI meter (voltage based)		CS90875C000	CS90875L000	CS90875D000	1	2705

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</i> -AD (230V-Single Phase)	CS9163300000	1	260
Wire Harness, <i>i</i> -AD (Three Phase)	CS9163400000	1	300
Wire Harness, <i>i</i> -ADS, <i>i</i> -ADSM, <i>i</i> -VDS, <i>i</i> -VDSM	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



Eliminates  
"Fuse wire"  
Replacement



Easy to Resume  
Supply by  
Switching



Saves  
Replacement  
Time & Money



Longer Life



Safe to  
Operate



Easy to switch  
ON/OFF during  
Maintenance

- K-Curve MCB offers effective short circuit protection for submersible pumps
- Available in range : 6A to 125A - 2 Pole & 3 Pole

L&T Electrical & Automation,  
Electrical Standard Products  
TC-W, Tower B, Prisma bay, 3rd Floor,  
Gate No. 5, Sakinaka Road, Powai  
Mumbai - 400 072, INDIA

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Reliance (toll-free): 1800 200 5858  
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kindly contact nearest  
branch



L&T Electrical & Automation



# 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 LTK 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



LTK  
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	CS91313O0OO	1	6875
South	English, Hindi, Kannada, Telugu, Tamil		CS91313MOSO	CS91313LOSO	CS91313OOSO	1	6875
East	English, Hindi, Odia, Assamese, Bengali		CS91313MOEO	CS91313LOEO	CS91313O0EO	1	6875

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	4645
	English, Hindi, Kannada, Telugu, Tamil	South	GSM0301OOSO	1	4645
	English, Hindi, Bengali, Odiya, Assamese	East	GSM0301OOEO	1	4645



Wire Type Antenna

## M-POWER+ Accessories

Description	Cat. No.	Std. Pkg. (Nos.)	M.R.P. (₹) Per Unit
Wire Type Antenna [8538]	GSM0301A000	1	485
Controller-side Wire Harness [8544]	GSM0301C000	1	175
Module-side Wire Harness [8544]	GSM0301G000	1	255



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 µF	440V	LTCCMRW010B2	21	80
	12.5 µF	440V	LTCCMRW125B2	21	95
	15 µF	440V	LTCCMRW015B2	21	120
	20 µF	440V	LTCCMRW020B2	21	140
	25 µF	440V	LTCCMRW025B2	12	150
	30 µF	440V	LTCCMRW030B2	12	160
	36 µF	440V	LTCCMRW036B2	12	170
	40 µF	440V	LTCCMRW040B2	12	215
	45 µF	440V	LTCCMRW045B2	12	240
	50 µF	440V	LTCCMRW050B2	12	250
Start	72 µF	440V	LTCCMRW072B2	12	325
	100 µF	275V	LTCCMSW100P2	12	240
	120 µF	275V	LTCCMSW120P2	12	280
	150 µF	275V	LTCCMSW150P2	12	330
	200 µF	275V	LTCCMSW200P2	12	375
	250 µF	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 µF	440V	LTCCMR025B2	12	175
	36 µF	440V	LTCCMR036B2	12	195
	50 µF	440V	LTCCMR050B2	12	305
Start	100 µF	275V	LTCCMS100P2	12	280
	120 µF	275V	LTCCMS120P2	12	335
	150 µF	275V	LTCCMS150P2	12	385
	200 µF	275V	LTCCMS200P2	12	445
	250 µF	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 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

## Electrical Standard Products (ESP) Offices:

### HEAD OFFICE

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