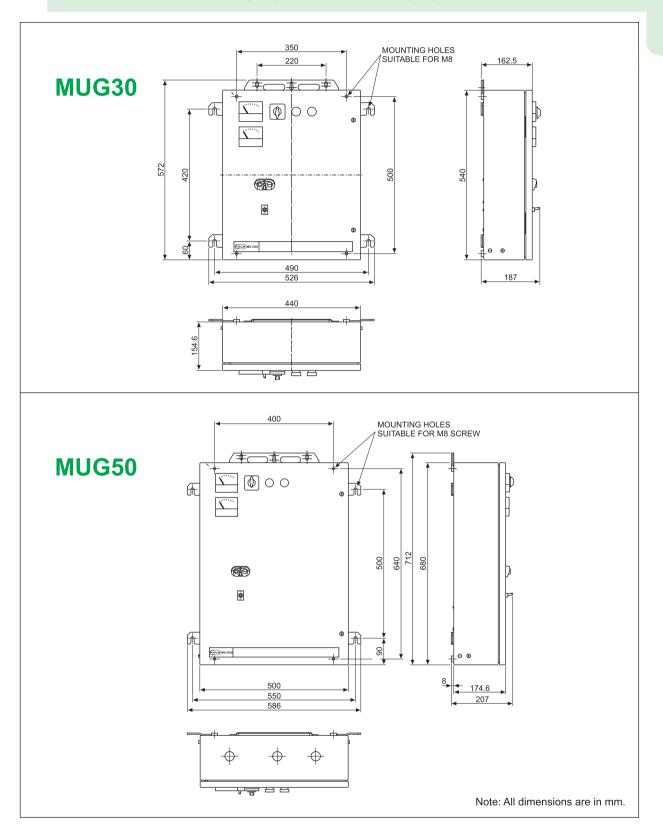


### **Overall Dimension**



Product improvement is a continuous process. For the latest information and special applications, please contact our office.



Electrical Standard Products Electrical & Electronics Division Larsen & Toubro Limited Powai Campus, Mumbai 400 072 Tel: 022-67052720 Fax: 022-67051746 email : ebg-esp@LNTEBG.com Website : www.LNTEBG.COM



**LARSEN & TOUBRO LIMITED** 

It's all about Imagineering

SP50477



# MUG30 & MUG50

# Submersible Pump Controller



**MUG30**Submersible
Pump Controller

#### **FEATURES FOR MUG30 & 50**

- 1. Offers wide operating band (65-110%Uc)
- 2. Fitted with MN5 relay
- 3. Selector switch to see voltage of three phases.
- 4. Protection from negative phase sequence
- 5. Protection from overload

- 6. Protection from Single Phasing
- 7. Auto Restart (with 30 Sec. On delay)
- 8. Power ON and Pump ON indicator.
- 9. Voltmeter and Ammeter to check voltage and current.
- 10. Heavy duty sheet steel enclosures.



MUG50
Submersible
Pump Controller

## TYPICAL APPLICATION FOR MUG30 & 50

1. Submersible water pumps

#### **Technical Details for MUG30**

Rating	30HP, 415 V 3ph		
Contactor	ML2 (wide band)		
Coil Voltage	380 V		
Overload Relay	MN5		
Relay Range	20-33 A and 30-50 A		
Pick up Voltage	65% to 110% Uc		
Drop off Voltage	20% to 50% Uc		
Measurement Offered	Ammerter with CT		
	Voltmeter with selector switch		
Additional Protection Offered	Single phasing, Phase reversal Phase unbalance (55 <u>+</u> 5 V)		
Indicating Lamps	Supply ON		
	Pump ON		
Rated Insulation Voltage	690 V		
Rated Operational Voltage	415 V		
Service Temperature	-5 deg. cel to + 55 deg. Cel.		
Conformity to standard	IS 13947(Part 4/Sec1)		
Terminal Capacity	50 sq.mm with Lug		
No. of full start	30 per Hour		
Back up Protection	Type 2 with HN fuses		

### **Ordering Details for MUG30**

Туре	Relay Range (Amp)	Voltage	Catalogue No.
MUG30 (FASD Pump Controller)	20 - 33 A	415 V	CS96008 COEO
	30 - 50 A	415 V	CS96008 COGO

#### **Technical Details for MUG50**

Rating	50HP, 415 V, 3ph	
Contactor	ML4 (Wide band)	
Coil Voltage	380 V	
Overload Relay	MN5	
Relay Range	30-50 A and 45-75 A	
Pick up Voltage	65% to 110% Uc	
Drop off Voltage	20% to 50% Uc	
Measurement offered	Ammerter with CT	
	Voltmeter with selector switch	
Additional protection offered	Single phasing, Phase reversal	
Indicating Lamps	Supply ON	
	Pump ON	
Rated Insulation Voltage	690 V	
Rated Operational Voltage	415 V	
Service Temperature	-5 deg. cel to + 55 deg. cel	
Conformity to standard	IS 13947 (Part 4/Sec1)	
No. of full start	30 per Hour	
Back up protaction	Type 2 with HN fuses	

### Ordering Details for MUG50

Туре	Relay Range (Amp)	Voltage	Catalogue No.
MUG50 (FASD Pump Controller)	30 - 50 A	415 V	CS96009 COGO
	45 - 75 A	415 V	CS96009 COJO

