- Protects against Overload, Phase Reverse,
   Phase Loss and Phase Unbalance faults
- Wide Range of Sensing Current: 1A-45A
- Models for 1 Phase and 3 Phase systems
- Auto/Manual Reset selection
- Fail-Safe Protection
- Inverse Time model with Underload,
   Locked Rotor Protection and Selectable Trip Class
- Definite Time model with Underload and selectable Start and Trip time



## **Ordering Information**

Cat. No.	Trip Type	Current	Auto Reset Time
17C112EB0	Inverse	3 A - 9 A	As per trip class
17C212EB0	Inverse	8 A - 24 A	As per trip class
17C312EB0	Inverse	15 A - 45 A	As per trip class
17C412EB0	Inverse	2 A - 5 A	As per trip class
17D112DA0	Definite	3 A - 9 A	6 min
17D212DA0	Definite	8 A - 24 A	6 min
17D312DA0	Definite	15 A - 45 A	6 min
17D412DA0	Definite	2 A - 5 A	6 min



Cat. N	No.	17C112EB0	17C212EB0	17D312DA0	
Parame	ters				
Supply \	Voltage (中)	110 - 240 VAC			
Supply \	/ariation	-20% to +10% of (中)			
Frequen	су	50 / 60 Hz			
Power C	Consumption (Max.)	5 VA			
	Trip Type	Inverse Time	Inverse Time	Definite Time	
	Tripping Class	5, 10, 20, 30	5, 10, 20, 30	NA	
	Current Ranges	3 - 9 A	8 - 24 A	15 - 45 A	
Trip	Thermal Memory	Yes	Yes	NA	
Settings	Underload	40% to 90%	40% to 90%	50%	
	Locked Rotor Protection	400% of the set value	400% of the set value	NA	
Number	of In-Built CT's	1			
Reset Mode		Auto, Manual			
Test Fun	nction	Yes			
	Start Time	N A	NA	0.2 to 30s	
Time	Delay Time	As per trip class	As per trip class	0.2 to 10s	
Delay	Auto Reset Time	3-15 min (As per trip class)	3-15 min (As per trip class)	6 min	
	ON Delay	60 ms to 700 ms			
Setting A	Accuracy	± 5%			
Repeat A	Accuracy	± 2%			
	Relay Output	1 C/O			
Output	Contact Rating	5A @ 240 VAC (Resistive)			
Output	Electrical Life	1 x 10⁵			
	Mechanical Life	1 x 10 <sup>7</sup>			
Utilizatio	ation Category AC - 15 Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A				
LED Ind	ications	ON: Power ON, UL: Underload,	OL: Overload		
	ng Temperature	- 10° C to +60° C			
Storage	Temperature	- 25° C to +70° C			
Humidity	/ (Non Condensing)	95% (Rh)			
Enclosu	re	Flame Retardant UL94-V0			
Dimensi	on (W x H x D) (in mm)	110 X 36.5 X 76.8			
Weight (	(unpacked) Approx.	210 g			
Mounting	g	Base Mounting			
Certifica	tion	CE ROHS Compliant			
Degree	of Protection	IP 20 for Enclosure			

#### EMI / EMC

Harmonic Current Emissions
ESD
IEC 61000-3-2
IEC 61000-4-2
Radiated Susceptibility
IEC 61000-4-3
Electrical Fast Transients
IEC 61000-4-4
Surges
IEC 61000-4-5
Conducted Susceptibility
IEC 61000-4-6
Voltage Dips & Interruptions (AC)
Conducted Emission
CISPR 14-1
Radiated Emission
CISPR 14-1

#### Environmental

 Cold Heat
 IEC 60068-2-1

 Dry Heat
 IEC 60068-2-2

 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

 Non-Repetitive Shock
 IEC 60068-2-27



# **Ordering Information**

Cat. No.	Trip Type	Current	Auto Reset Time
17A122CB0	Inverse	3 A - 9 A	As per trip class
17A222CB0	Inverse	8 A - 24 A	As per trip class
17A322CB0	Inverse	15 A - 45 A	As per trip class
17A422CB0	Inverse	2 A - 5 A	As per trip class
17B122AA0	Definite	3 A - 9 A	6 min
17B222AA0	Definite	8 A - 24 A	6 min
17B322AA0	Definite	15 A - 45 A	6 min
17B422AA0	Definite	2 A - 5 A	6 min



Paramet Supply V Supply V					
	/oltage (⇔)	220 - 415 VAC (3 Phase, 3 Wire)			
		-20% to +15% of (中)			
Frequency		50/60 Hz			
	consumption (Max.)	12 VA			
	Trip Type	Inverse Time	Definite Time	Inverse Time	
	Tripping Class	10A, 10, 20, 30	N A	10A, 10, 20, 30	
	Current Ranges	3 - 9 A	8 - 24 A	15 - 45 A	
	Thermal Memory	Yes	N A	Yes	
		Yes / (100 ms Approx.)			
	Phase Loss	70% of Unbalance			
	Current unbalance Protection	50% of Unbalance			
	Underload	40% to 90%	50%	40% to 90%	
	Locked Rotor Protection	400% of the set value	N A	400% of the set value	
	of In-Built CT's	2		10070 01 1110 001 141140	
Reset Mo		Auto, Manual			
Test Fun	***	Yes			
10011 011	Start Time	N A	0.2 to 30s	N A	
Time	Delay Time	N A	0.2 to 10s	N A	
Delay	Auto Reset Time	3-15 min (As per trip class)	6 min	3-15 min (As per trip class)	
	ON Delay	450 ms ( ±50ms )		o to time (no per trip class)	
Setting Accuracy		± 5%			
		± 2%			
Repeat Accuracy Relay Output		1 C/O			
	Contact Rating	5A @ 240 VAC (Resistive)			
Output	Electrical Life	1 x 10 <sup>5</sup>			
	Mechanical Life	1 x 10 <sup>7</sup>			
			ted Current (Ie): 3 0/1 5 A		
Utilization Category AC - 15  LED Indications		Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A  Separate indications for Phase Asymmetry, Phase Loss & Phase Sequence / Reverse, Power ON, Underload & Overload Control of the Control of t			
Operating Temperature		- 10° C to +60° C			
Storage Temperature		- 25° C to +70° C			
	umidity (Non Condensing) 95% (Rh)				
Enclosure		Flame Retardant UL94-V0			
		110 X 36.5 X 76.8			
	unpacked) Approx.	210 g			
Mounting	. ,	Base Mounting			
Certificat	tion	CE ROHS Compliant			
Degree (	of Protection	IP 20 for Enclosure			

#### EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

## Environmental

 Cold Heat
 IEC 60068-2-1

 Dry Heat
 IEC 60068-2-2

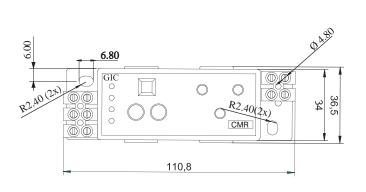
 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

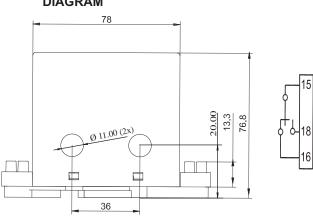
 Non-Repetitive Shock
 IEC 60068-2-27

Note: 2 A - 5A products can be used with external CT. Load wires to be passed through the external CT and Secondary's wire terminals are to be looped through the Product CT.

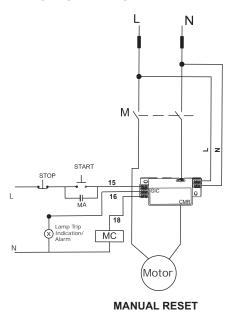
## **MOUNTING DIMENSION (mm)**



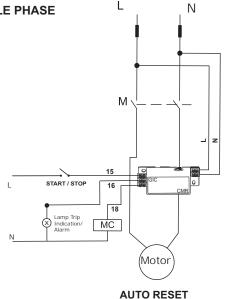
#### **RELAY CONNECTION DIAGRAM**

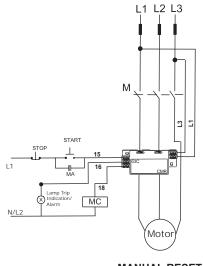


### **CONNECTION DIAGRAM**



**SINGLE PHASE** 





MANUAL RESET

