- 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. I	No.	17C112EB0	17C212EB0	17D312DA0	
Parame	ters				
Supply \	Voltage (⇔)	110 - 240 VAC			
Supply \	√ariation √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 M	lode	Auto, Manual			
Test Fur	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 /	Accuracy	± 2%			
	Relay Output	1 C/O			
Output	Contact Rating	5A @ 240 VAC (Resistive)			
Output	Electrical Life	1 x 10 ⁵			
	Mechanical Life	1 x 10 ⁷			
Utilizatio	on Category AC - 15	Rated Voltage (Ue): 120/240 V, I	, ,		
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			
Mountin	g	Base Mounting			
Certifica	ition	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

Trip Type	Current	Auto Reset Time
Inverse	3 A - 9 A	As per trip class
Inverse	8 A - 24 A	As per trip class
Inverse	15 A - 45 A	As per trip class
Inverse	2 A - 5 A	As per trip class
Definite	3 A - 9 A	6 min
Definite	8 A - 24 A	6 min
Definite	15 A - 45 A	6 min
Definite	2 A - 5 A	6 min
	Inverse Inverse Inverse Inverse Definite Definite Definite	Inverse 3 A - 9 A Inverse 8 A - 24 A Inverse 15 A - 45 A Inverse 2 A - 5 A Definite 3 A - 9 A Definite 8 A - 24 A Definite 15 A - 45 A



Cat.	No.	17A122CB0	17B222AA0	17A322CB0	
Parame	eters				
Supply '	Voltage (中)	220 - 415 VAC (3 Phase, 3 Wire)			
Supply '	Variation	-20% to +15% of (中)			
Frequer	ncy	50/60 Hz			
Power C	Consumption (Max.)	12 VA			
	Trip Type	Inverse Time	Definite Time	Inverse Time	
	Tripping Class	10A, 10, 20, 30	NA	10A, 10, 20, 30	
	Current Ranges	3 - 9 A	8 - 24 A	15 - 45 A	
Trip	Thermal Memory	Yes	N A	Yes	
Settings	Phase Reverse Protection	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	NA	400% of the set value	
Number	of In-Built CT's	2		'	
Reset M	lode	Auto, Manual			
Test Fu	nction	Yes			
	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)		-	
Setting	Accuracy	± 5%			
Repeat	Accuracy	± 2%			
Relay Output		1 C/O			
Output	Contact Rating	5A @ 240 VAC (Resistive)			
Output	Electrical Life	1 x 10 ⁵			
	Mechanical Life	1 x 10 ⁷			
Utilizati	on Category AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A			
LED Indications		Separate indications for Phase Asymmetry, Phase Loss & Phase Sequence / Reverse, Power ON, Underload & Overload			
Operating Temperature		- 10° C to +60° C			
Storage Temperature		- 25° C to +70° C			
Humidity (Non Condensing)		95% (Rh)			
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		110 X 36.5 X 76.8			
Weight (unpacked) Approx.		210 g			
Mountin	ng	Base Mounting			
Certifica	ation	C (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

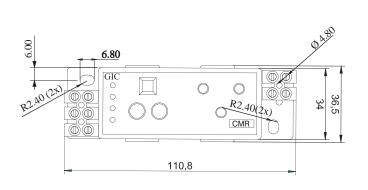
 Vibration
 IEC 60068-2-6

 Repetitive Shock
 IEC 60068-2-27

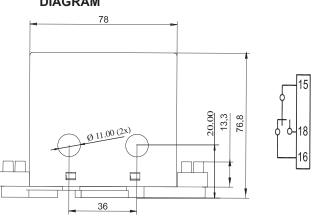
 Non-Repetitive Shock
 IEC 60068-2-27

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.

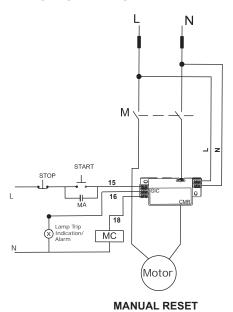
MOUNTING DIMENSION (mm)



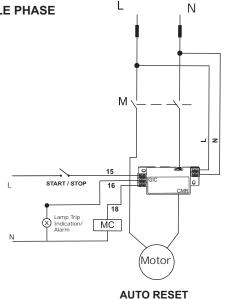
RELAY CONNECTION DIAGRAM

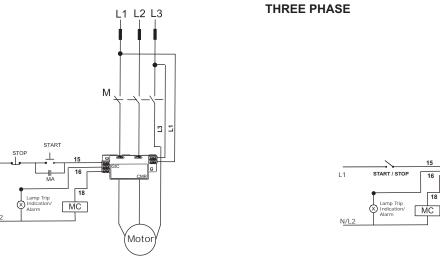


CONNECTION DIAGRAM



SINGLE PHASE





MANUAL RESET

AUTO RESET

Moto

L1 L2 L3

M