



# Current Monitoring Series CMR - Current Control



Cat. No.	17A122CB0	17A222CB0	17A322CB0	
<b>Parameters</b>				
Supply Voltage ( $\phi$ )	220 - 415 VAC (3 Phase, 3 Wire)			
Supply Variation	-20% to +15% of ( $\phi$ )			
Frequency	50/60 Hz			
Power Consumption (Max.)	12 VA			
Trip Settings	Trip Type	Inverse Time	Inverse Time	Inverse Time
	Tripping Class	10A, 10, 20, 30	10A, 10, 20, 30	10A, 10, 20, 30
	Current Ranges	3 - 9 A	8 - 24 A	15 - 45 A
	Thermal Memory	Yes	Yes	Yes
	Phase Reverse Protection	Yes / (100 ms Approx.)		
	Phase Loss	> 70% of Unbalance		
	Current unbalance Protection	>50% of Unbalance		
	Underload	40% to 90%	40% to 90%	40% to 90%
Trip Time	< 4sec after starting	< 4sec after starting	< 4sec after starting	
Number of In-Built CT's	2			
Reset Mode	Auto, Manual			
Test Function	Yes			
Time Delay	Start Time	N A	N/A	N A
	Delay Time	As per trip class	As per trip class	As per trip class
	Auto Reset Time	3-15 min (As per trip class)	3-15 min (As per trip class)	3-15 min (As per trip class)
	ON Delay	450 ms ( $\pm$ 50ms )		
Setting Accuracy	$\pm$ 5%			
Repeat Accuracy	$\pm$ 2%			
Output	Relay Output	1 C/O		
	Contact Rating	5A @ 240 VAC (Resistive)		
	Electrical Life	$1 \times 10^5$		
	Mechanical Life	$1 \times 10^7$		
Utilization 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)	110.8 X 36.5 X 76.8			
Weight (unpacked) Approx.	210 g			
Mounting	Base Mounting			
Certification	 			
Degree of Protection	IP 20 for Enclosure			

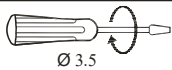

## EMI / EMC

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
Power Frequency Magnetic Field	IEC 61000-4-8
Voltage Flickers & Fluctuation	IEC 61000-3-3
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

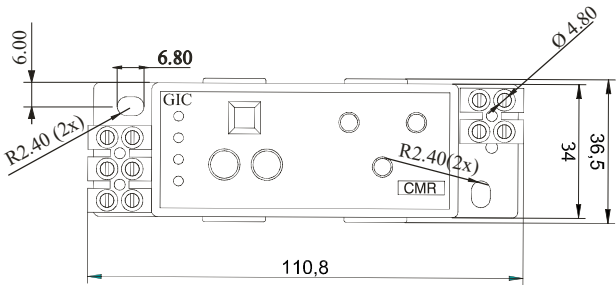
## TERMINAL TORQUE & CAPACITY

 $\varnothing 3.5$	0.45 N.m (4 Lb.in)
	1 x 4 mmsq Rigid wire (without wire protection) 1 x 2.5 mmsq (with wire protection)
AWG	1 x 22 to 12

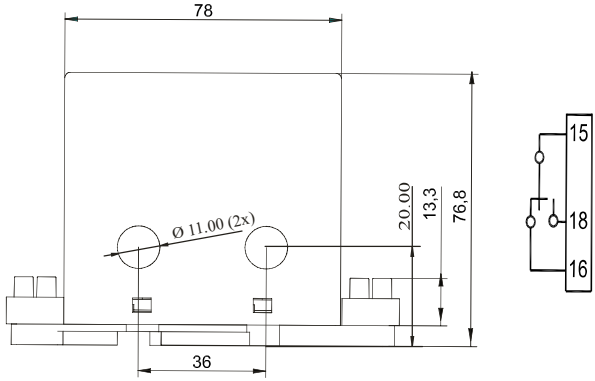
**Note:** 2 A - 5A products can be used with external CT. Load wires to be passed through the external CT and Secondary's wire terminals are to be looped through the Product CT.

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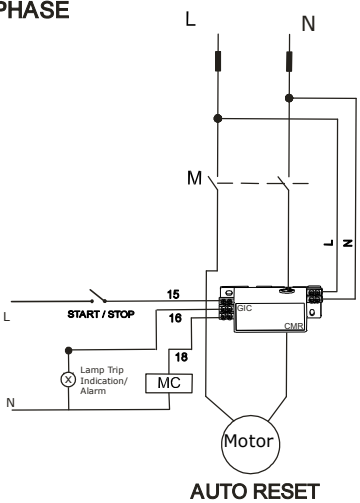
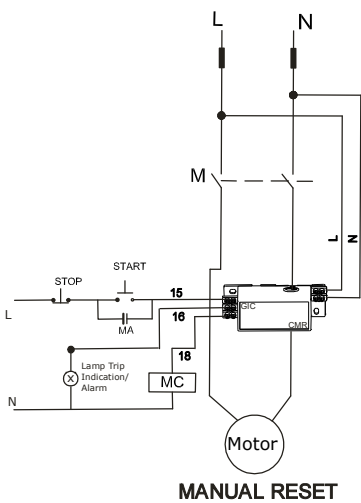
**MOUNTING DIMENSION (mm)**



**RELAY CONNECTION DIAGRAM**



**CONNECTION DIAGRAM**



**THREE PHASE**

