



SAVEAIR
Technologies Pvt Ltd



Product Catalogue

Contact For Any Enquiry

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Earth Leakage Relay Series CMR

- Flush Mounting Version 96x96 mm with Digital Seven Segment Display
- Monitors, Detects and Protects Power systems from Earth Leakage Fault (Type 'A' & 'AC')
- Wide range of selectable Earth Leakage Current: 30 mA - 30 A
- Configurable Earth Leakage Trip time: 0 - 10 s
- Wide Auxiliary Supply Range: 110 - 240 VAC / DC
- Nano Crystalline CBCT measures the leakage current to the highest accuracy
- Instantaneous Trip for 5 times of set value of Leakage current
- Test feature to check complete product functionality
- LED Indication for Relay Status, Earth Leakage Fault & Alarm Condition
- Manual / Remote Reset feature
- Continuous Scrolling display for Set Current and Set time
- 1 C/O (Alarm Relay) + 1 C/O (Fault Relay)
- RS 485 Communication



Ordering Information

Cat. No.	Description
17K716QF4N	110-240V AC / DC, Current Range 30 mA - 30 A, 2 C/O
17K716QF4M	110-240V AC / DC, Current Range 30 mA - 30 A, 2 C/O with RS 485
17K726QF4N	220-415V AC / 220 V DC, Current Range 30 mA - 30 A, 2 C/O
17K726QF4M	220-415V AC / 220 V DC, Current Range 30 mA - 30 A, 2 C/O with RS 485
17H7NNHN3	CBCT 38 mm, 30 mA - 30 A
17H7NNIN3	CBCT 57 mm, 30 mA - 30 A
17H7NNQN3	CBCT 70 mm, 30 mA - 30 A
17H7NNJN3	CBCT 92 mm, 30 mA - 30 A
17H7NNLN3	CBCT 120 mm, 30 mA - 30 A
17H7NNKN3	CBCT 210 mm, 30 mA - 30 A
17H7NNRN3	CBCT 38 mm, 30 mA - 1 A
17H7NNSN3	CBCT 70 mm, 30 mA - 1 A
17H7NNTN3	CBCT 92 mm, 30 mA - 1 A
17H7NNUN3	CBCT 120 mm, 30 mA - 1 A

Earth Leakage Relay Series CMR



Cat. No.		17K716QF4N	17K716QF4M	17K726QF4N	17K726QF4M
Parameters					
Supply Voltage (Φ)		110 - 240 V AC / DC		220 - 415 V AC / 220 V DC	
Supply Variation		-20 to +10%			
Frequency		50/60Hz			
Power Consumption (Max.)		6 VA			
Leakage Current Range (IΔn)		30 mA to 30 A			
Threshold IΔn (A)	IΔn x 1	0.03 - 0.05 - 0.075 - 0.1 - 0.15 - 0.2-0.3 (A)			
	IΔn x 10	0.03 - 0.5 - 0.75 - 1.0 - 1.5 - 2.0 - 3.0 (A)			
	IΔn x 100	0.03 - 5 - 7.5 - 10.0 - 15.0 - 20.0 - 30.0 (A)			
Type Class		'A' True RMS measurement (As per IEC 60947-2 appendix M) up to IΔN= 3A			
Max. Crest Factor		4 (for 30 mA to 30 A)			
Reset Mode		Manual / Auto Reset			
No. of Resets		4 (Auto Mode)			
Clear Auto Reset		After 1 hour of healthy condition or supply interruption			
Reset Enable		Below 50% of set current threshold in presence of CBCT			
Trip Time (Δt in sec)		0 - 0.06 - 0.15 - 0.25 - 0.5 - 0.8 - 1 - 2.5 - 5 - 10			
Test / Reset		Local & Remote (Non Potential free contacts, upto 10 m)			
Setting Accuracy		-20% (Including CBCT Accuracy)			
Repeat Accuracy		± 2%			
Output	Relay Output	1 C/O (Alarm Relay) + 1 C/O (Fault relay)			
	Contact Rating	5A (Resistive) @ 240 VAC / 30 VDC			
	Electrical Life	1 x 10 ⁵			
	Mechanical Life	1 x 10 ⁷			
Utilization Category		AC - 15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A		
		DC - 13	Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A		
Display	Trip Current Hold	Enable / Disable			
	Scrolling Display	Enable / Disable			
LED	Power	Green LED (ON) → Power ON			
Indication	EL / CT	Red LED (ON) → Relay Trip, Yellow (ON) → Alarm Relay			
RS 485 Communication		NA	Available	NA	Available
Operating Temperature		- 20° C to +55° C			
Storage Temperature		- 20° C to +80° C			
Humidity (Non Condensing)		95% (Rh)			
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		96 X 96 X 83.7			
Weight (unpacked) Approx.		275 g			
Mounting		Panel / Flush Mountable			
Certification		 			
Degree of Protection		IP 20 for Terminals, IP 40 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 11
Radiated Emission	CISPR 11

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

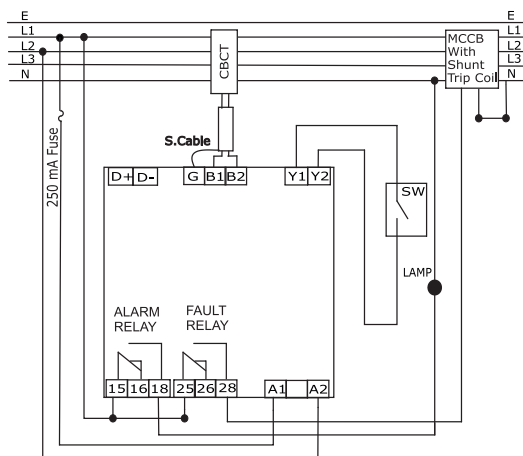
Earth Leakage Relay Series CMR



CONNECTION DIAGRAM

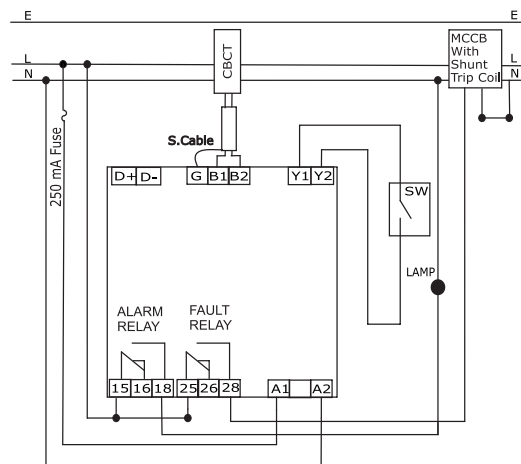
NON-FAIL SAFE MODE
(SHUNT TRIP COIL/UV TRIP COIL)

THREE PHASE APPLICATION



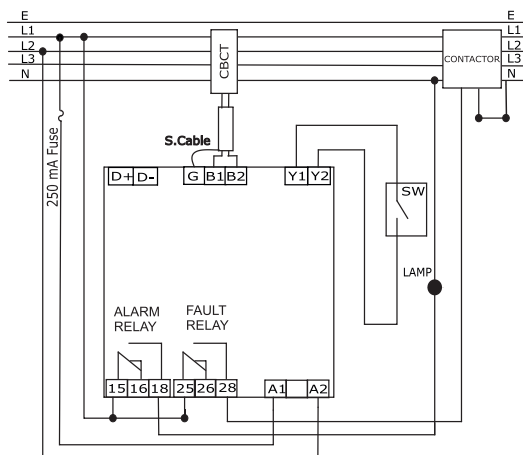
NON-FAIL SAFE MODE
(SHUNT TRIP COIL/UV TRIP COIL)

SINGLE PHASE APPLICATION



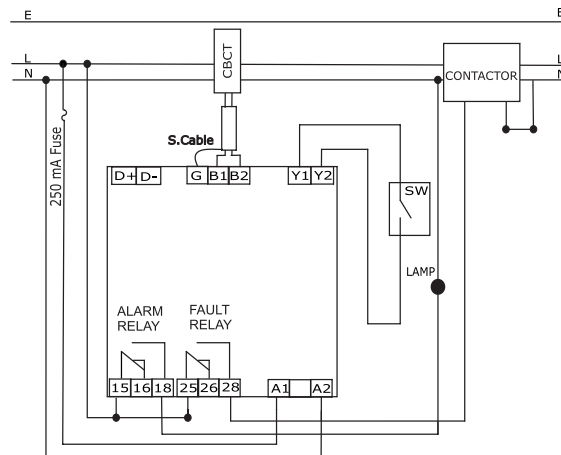
FAIL SAFE MODE (CONTACTOR)

THREE PHASE APPLICATION



FAIL SAFE MODE (CONTACTOR)

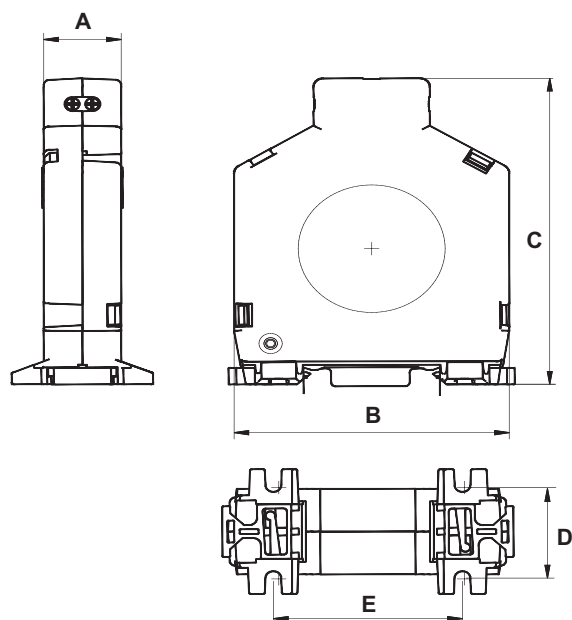
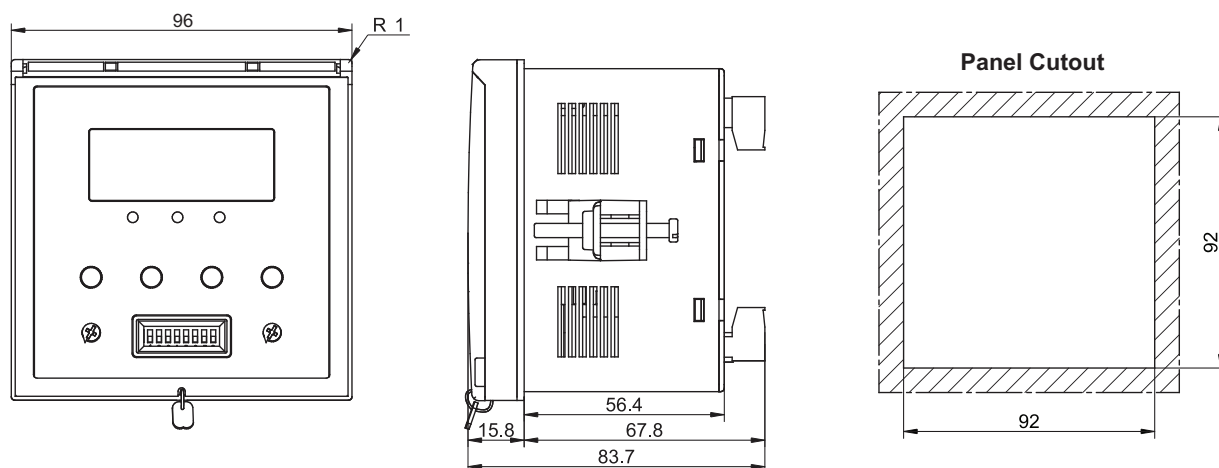
SINGLE PHASE APPLICATION



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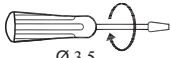
MOUNTING DIMENSIONS (mm)



CBCT	SIZE	WEIGHT (in gms)	A	B	C	D	E
17H7NNHN3	38	110	20	71	91	27	48
17H7NNIN3	57	185	20	97	117	27	55
17H7NNQN3	70	240	20	109	133	36	59
17H7NNJN3	92	250	20	132	155	27	73
17H7NNLN3	120	255	20	153	176	27	73
17H7NNKN3	210	280	20	250	282	28	128

Dimensions in mm

TERMINAL TORQUE & CAPACITY

 Ø 3.5	0.5 N.m (4.4 Lb.in)
	1 x 2.5 mm ² Solid Wire/Stranded
AWG	1 x 28 to 12