

Earth Leakage Relay Series CMR

- Monitors, detects and protects power systems from earth leakage faults
- 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, 220 - 415 VAC
- Instantaneous trip for 5 times of set value of leakage current
- Test feature to check complete product functionality
- LED indication for relay status, CT open, earth leakage fault & test/reset switch short
- Manual / Remote reset feature
- 1 C/O + 1 NO relay output



Cat. No.		17G715GF2	17G715KF2	17G745GF2	17G745KF2
Parameters					
Supply Voltage (中)		110 - 240 VAC		220 - 415 VAC	
Supply Variation		-20 to +20%			
Frequency		50/60Hz			
Power Consumption (Max.)		5 VA		10 VA	
Overall Leakage Current (ΔI_n)		30 mA to 30 A (In 10 steps)			
LED Indication	Power	Green LED (ON)			
	EL / CT	Red LED (ON) → Relay Trip / Red LED (Blinking) → CT Open			
	Leakage Current / TST	By Bar Graph: 30% (Green), 45% (Green), 60% (Yellow), 75% (Red), Blink Test / Reset Switch is pressed			
Relay Output		1C/O (SPDT) + 1 NO (SPST)			
Contact Rating		5 A (Resistive) @ 240 VAC / 30 VDC			
Contact Material		Ag Alloy			
Electrical Life		1X10 ⁵			
Mechanical Life		1X10 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): 2/0.22/0.1 A			
Reset		Manual Reset	Auto Reset	Manual Reset	Auto Reset
No. of Resets		4			
Clear Auto Reset		After 1 hour of healthy condition or supply interruption			
Test / Reset		Local & Remote (Non Potential free contacts, upto 10 m)			
Trip Time (Δt in sec)		0.03 - 0.06 - 0.15 - 0.25 - 0.5 - 0.8 - 1 - 2.5 - 5 - 10			
Reset Enable		Below 50% on current threshold set by potentiometer & in presence of CBCT			
Reset Time		< 1s			
Threshold $I_{\Delta n}$ (A)		0.03 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10 - 20 - 30			
Type Class		'A' True RMS measurement (As per IEC 60947-2 appendix M)			
Max. Crest Factor		5 (for 30 mA to 30 A)			
Accuracy	Setting Accuracy	-20% (Including CBCT Accuracy)			
	Repeat Accuracy	+/- 2%			
Storage Temperature		-20°C to + 80°C			
Operating Temperature		-15°C to + 60°C			
Humidity (Non Condensing)		95% (Rh)			
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		18 X 60 X 85			
Weight (unpacked)		70 g			
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure			
Mounting		Base / DIN Rail			
Certification		 			
EMI/ EMC		IEC 61000-3-2 Ed. 3.0 (2005-11) Class A			
Harmonic Current Emissions		IEC 61000-4-2 Ed. 1.2 (2001-04) Level II			
ESD		IEC 61000-4-3 Ed. 3.0 (2006-02) Level III			
Radiated Susceptibility		IEC 61000-4-4 Ed. 2.0 (2004-07) Level IV			
Electrical Fast Transients		IEC 61000-4-5 Ed. 2.0 (2005-11) Level IV			
Surges		IEC 61000-4-6 Ed. 2.2 (2006-05) Level III			
Conducted Susceptibility		IEC 61000-4-11 Ed. 2.0 (2004-03) Level I, II, III, IV & V Class A, Level VI Class B			
Voltage Dips & Interruptions		CISPR 14-1 Ed. 5.0 (2005-11) Class A			
Conducted Emission		CISPR 14-1 Ed. 5.0 (2005-11) Class A			
Radiated Emission		IEC 60068-2-1 Ed. 6.0 (2007-03)			
Environmental		IEC 60068-2-2 Ed. 5.0 (2007-07)			
Cold Heat		IEC 60068-2-6 Ed. 7.0 (2007-12) 5g			
Dry Heat		IEC 60068-2-27 Ed. 4.0 (2008-02) 40g, 6ms			
Vibration		IEC 60068-2-27 Ed. 4.0 (2008-02) 30g, 15ms			
Repetitive Shock					
Non-repetitive shock					
CBCT					
Dimensions in mm without enclosure	CBCT 1	45 X 65 X 15			
	CBCT 2	65 X 90 X 15			
	CBCT 3	100 X 125 X 15			

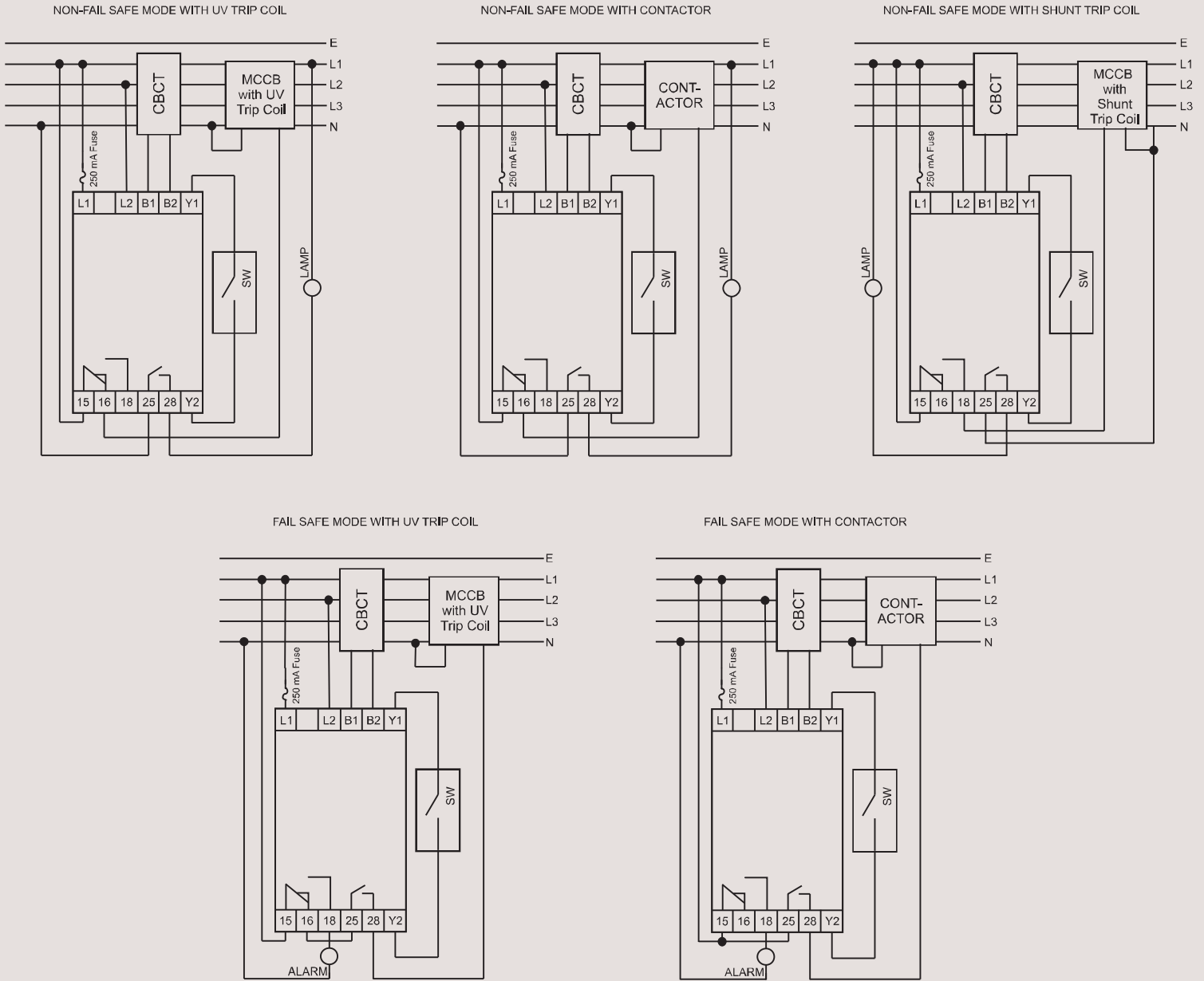
ORDERING INFORMATION

Cat. No.	Description
17G715GF2	110-240V AC, Current Range 30 mA - 30 A, 1 C/O + 1 NO, Manual Reset
17G715KF2	110-240V AC, Current Range 30 mA - 30 A, 1 C/O + 1 NO, Auto Reset
17G745GF2	220-415V AC, Current Range 30 mA - 30 A, 1 C/O + 1 NO, Manual Reset
17G745KF2	220-415V AC, Current Range 30 mA - 30 A, 1 C/O + 1 NO, Auto Reset
17H7NNHN3	CBCT 1, 30 mA - 30A
17H7NNIN3	CBCT 2, 30 mA - 30A
17H7NNJN3	CBCT 3, 30 mA - 30A




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CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

 Ø3.5 mm	0.54 N.m (5 Lb.in) Terminal screw - M2,5
	1 x 0.2...3.3 mm ² Solid Wire / Single Wire Ferrule
	2 x 0.2...1 mm ² Insulated Twin Wire Ferrule
AWG	1 x 24 to 12

Use Cu Wire of 60/75°C only.

MOUNTING DIMENSIONS

