

Earth-leakage circuit-breaker 0, 03-5 A

Part no. PFR-5
Article no. 285557

Powering Business Worldwide

Delivery programme

Rated fault currents	$I_{\Delta n}$	A	0.03, 0.1, 0.3, 0.5, 1, 3, 5
Description			Adjustable fault current and delay time Fault current early warning by flashing, red LED Pulse-current sensitive Integrated auxiliary contact (1 C/O) Ring-type transformer must also be ordered not UL/CSA approved
Rated control voltage	U_s	V	230 V AC 50/60Hz

Notes

Adjustable fault current: 0.03, 0.1, 0.3, 0.5, 1, 3, 5 A

Adjustable delay time: 0.02, 0.1, 0.3, 0.5, 1, 3, 5 A

Technical data

Electrical

Standards			IEC/EN 60947-2, IEC 755, IEC 1008, IEC 1009
Sensitivity			Pulse current sensitive, type A
Rated control voltage	U_s	V AC	230 ±20 % (50/60 Hz)
Motor rating	P_e	W	3
Rated fault currents	$I_{\Delta n}$	A	0.03, 0.1, 0.3, 0.5, 1, 3, 5
Delay time	t_v	s	0.02, 0.1, 0.3, 0.5, 1, 3, 5
Relay contacts			1 integrated changeover contact
Rated voltage of the relay contact		V AC/DC	250/100
Rated current of the relay contact		A	6

Mechanical

Standard front dimension		mm	45
Enclosure height		mm	85
Device width		mm	45
Mounting			Snap fixing, top-hat rail DIN 46277, IEC/EN 60715
Terminals top and bottom			Box terminals
Terminal protection			Finger/back-of-hand proof to BGV A2, VDE 106 part 100
Terminal capacities		mm^2	2 x 0.75 - 2.5 solid, 2 x 0.75 - 1.5 flexible/with ferrules
Sealability			Setting buttons

Ambient temperature

Operation		°C	- 10 - + 50

Data for design verification according to IEC/EN 61439

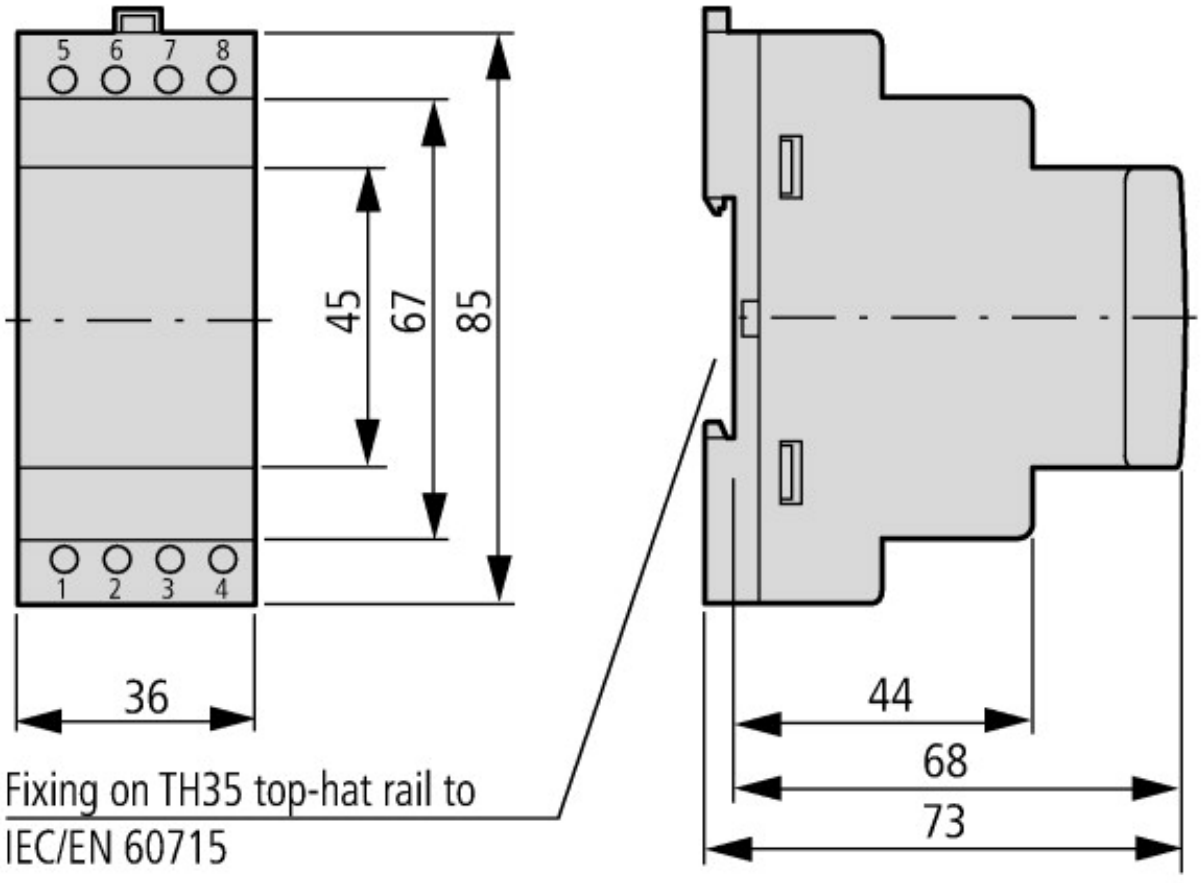
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.

10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9 Insulation properties		
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 5.0

Low-voltage industrial components (EG000017) / Residual current release for power circuit breaker (EC001021)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Fault current switch for circuit breakers (ecl@ss8-27-37-04-11 [AKF009009])		
Rated control supply voltage Us at AC 50HZ	V	184 - 276
Rated control supply voltage Us at AC 60HZ	V	184 - 276
Rated control supply voltage Us at DC	V	0 - 0
Rated fault current	A	0.03 - 5
Max delay-on energization time	ms	5000
Delay adjustable		Yes
Max. rated operation voltage Ue	V	276

Dimensions



Additional product information (links)

IL01219036Z (AWA1230-2214) Residual-current relay: converter for earth-leakage circuit-breaker	
IL01219036Z (AWA1230-2214) Residual-current relay: converter for earth-leakage circuit-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL01219036Z2011_01.pdf

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