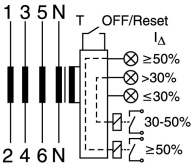
Residual current circuit-breaker, 40A, 4p, 0mA, AC-Char

Part no. PDIM-40/4
Article no. 111760
Catalog No. PDIM-40-4

Powering Business Worldwide

Delivery program

Basic function			Leakage current monitor
Number of poles			4 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	I_n	A	40
Rated short-circuit strength	I_{cn}	kA	10
Rated fault current	$I_{\Delta N}$	A	adjustable: 0.03/0.1/0.3/0.5/1
Tripping		A	Short time-delayed, adjustable selective switch off, adjustable non-delayed, adjustable
Product range			PDIM
Sensitivity			AC and pulsating DC current sensitive
Contact sequence			

Technical data

Electrical

Types based on			DIN/EN 62020
Current test marks			As per inscription
Rated current	I_n	A	40
Response value			unverzögert
Type G			10 ms verzögert
Type S			40 ms verzögert - selektiv
Rated operating voltage	U_n	V AC	230/400, 50/60 Hz 240/415, 50/60 Hz
Sensitivity			AC and pulsating DC current sensitive
Rated insulation voltage	U_i	V	440
Rated short-circuit strength	I_{cn}	kA	10
Max. admissible back-up fuse			
Short-circuit	gG/gL	A	63
Overload	gG/gL	A	40
Switch contacts			10 A / 240 V~
Response behaviour of contacts			1: 30 - 50 % $I_{\Delta n}$ 2: > 50 % $I_{\Delta n}$
lifespan			
Electrical		Operations	2000
Mechanical		Operations	10000

Mechanical

Standard front dimension		mm	45
Device height		mm	80
Built-in width		mm	70 (4TE)
Mounting			Quick attachment with 2 latch positions on top-hat rail IEC/EN 60715
Degree of Protection			IP20 switches IP 40 enclosed
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Protection against electric shock to A3, ÖVE-EN 6
Terminal capacity (1, 2, 3, 4, 5, 6, N, N)			
Solid		mm^2	1.5 - 35

Stranded		mm^2	2 x 16
Terminal cross-section of switching contacts		mm^2	0.25 - 1.5
Thickness of busbar material		mm	0.8 - 2
Admissible ambient temperature range		°C	-25 to +40
Permissible storage and transport temperatures		°C	-35 - +60
Climatic proofing			according to IEC/EN 61008
Operating ambient temperature min.		°C	-25

Design verification as per IEC/EN 61439

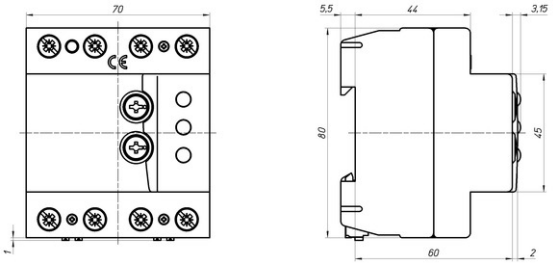
Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	40
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	2
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
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 6.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)			
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss8.1-27-14-22-01 [AAB906011])			
Number of poles			4
Nominal rated voltage		V	415
Nominal rated current		A	40
Rated fault current		A	0
Mounting method			DIN rail
Leakage current type			AC

Selective protection			Yes
Short-circuit breaking capacity (Icw)		kA	10
Surge current capacity		kA	0.25
Frequency			60 Hz
Additional equipment possible			Yes
Degree of protection (IP)			IP20
Construction size (in accordance with DIN 43880)			1
Width in number of modular spacings			4
Built-in depth		mm	60
Short-time delayed tripping			Yes

Dimensions



Additional product information (links)

Product overview (Web)	http://www.eaton.eu/Europe/Electrical/ProductsServices/CircuitProtection/DigitalCircuitBreakers/index.htm