Residual current circuit breaker (RCCB), 40A, 2 p, 500mA, type AC

Powering Business Worldwide

PF6-40/2/05 Part no. Catalog No. 286499

Similar to illustration

Delivery program			
Basic function			Residual current circuit-breakers
Number of poles			2 pole
Application			Residual current circuit-breaker for residential and commercial applications
Rated current	In	Α	40
Rated short-circuit strength	I _{cn}	kA	6
Rated fault current	$I_{\Delta N}$	Α	0.5
Туре			Type AC
Tripping		s	non-delayed
Product range			PF6
Sensitivity			AC current sensitive

Partly surge-proof 250 A

Technical data

Switching interlock

Sealing cover set

Impulse withstand current

ectrica

		IEC/EN 61008
		IEC/EN 61008
U _e	V	
U _e	V AC	
U _e	V AC	230
f	Hz	50
	V AC	184 - 250
		AC current sensitive
Ui	V	440
U _{imp}	kV	4
I _{cn}	kA	6
gG/gL	Α	63
gG/gL	Α	25
$I_m/I_{\Delta m}$	Α	500
	A gL/gG	25
	A gL	
	A gL	63
Operations		≧ 4000
Operations		≧ 20000
		Z-HK 248432
		Z-NHK 248434
		Z-FW/LP 248296
		KLV-TC-2 276240
	U_e U_e f U_i U_{imp} I_{cn} gG/gL gG/gL $I_m/I_{\Delta m}$ $Operations$	Ue V AC Ue V AC f Hz V AC Ui V Uimp kV Icn kA gG/gL A gG/gL A Im/Iam A A gL/gG A gL A gL A gL Operations Im/Im/Im/Im/Im/Im/Im/Im/Im/Im/Im/Im/Im/I

IS/SPE-1TE 101911

Z-RC/AK-2TE 285385

Mechanical

Standard front dimension	mm	45
Device height	mm	80
Built-in width	mm	35 (2TE)
Mounting		Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
Degree of Protection		IP20, IP40 with suitable enclosure
Terminals top and bottom		Open mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal cross-section		
Solid	mm ²	1.5 - 35
Stranded	mm ²	2 x 16
Thickness of busbar material	mm	0.8 - 2
Permissible storage and transport temperatures	°C	-35 - +60
Climatic proofing		25-55°C/90-95% relative humidity according to IEC 60068-2
Thickness of busbar material	mm	
Material thickness	mm	0.8 - 2

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	5.4
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	60
			Starting at 40 °C, the max. permissible continuous current decreases by 2.5% for every 1 °C
EC/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 b observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must b observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

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@ss10.0.1-27-14-22-01 [AAB906014])	anon, device / nes	siddai cai	Trent protection system / nestudar current circuit breaker (need)
Number of poles			2
Rated voltage		V	230
Rated current		Α	40
Rated fault current		Α	0.5
Rated insulation voltage Ui		V	440
Rated impulse withstand voltage Uimp		kV	4
Mounting method			DIN rail
Leakage current type			AC
Selective protection			No
Short-time delayed tripping			No
Short-circuit breaking capacity (Icw)		kA	6
Surge current capacity		kA	0.25
Voltage type			AC
With interlocking device			Yes
Frequency			50 Hz
Additional equipment possible			Yes
Degree of protection (IP)			IP20
Width in number of modular spacings			2
Built-in depth		mm	69.5
Ambient temperature during operating		°C	-25 - 60
Pollution degree			2
Connectable conductor cross section multi-wired		mm²	1.5 - 16
Connectable conductor cross section solid-core		mm²	1.5 - 35
Explosion-proof			No