

Part no. Article no.

Catalog No.

Digital residual current circuit-breaker, 40A, 4p, 300mA, type U

dRCM-40/4/03-U+

DRCM-40-4-03-U

120851



Similar to illustration

Delivery program			
Basic function			Residual current circuit breakers , digital
Number of poles			4 pole
Application			Switchgear for residential and commercial applications
Rated current	In	А	40
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	А	0.3
Туре			Туре U
Tripping		А	selective switch off
Product range			dRCM
Sensitivity			Frequency converter-proof
Impulse withstand current			surge-proof 5 kA

Technical data

Electrical			
Standards			IEC/EN 61008, Type G and G/A according to ÖVE E 8601 Current test mark according to label
Rated operational voltage	U _e	V	
	U _e	V AC	
Rated operating voltage	U _e	V AC	230/400
Rated frequency	f	Hz	50/60
Rated frequency	f	Hz	50/60
Rated fault currents	$I_{\Delta n}$	mA	30, 300
Rated non-tripping current	IΔno		0.5 x l _n
Sensitivity			Frequency converter-proof
Sensitivity			DC and pulsed current
Rated impulse withstand voltage	U _{imp}	kV	4 (1.2/50µs)
Rated short-circuit strength	I _{cn}	kA	10
Maximum max. as short-circuit protective device		A gL	
Back-up fuse		A gL	Short-circuit and overload: 80 A gG/GL
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	
Enclosure width		mm	80
Mounting			Quick attachment with 2 latch positions on top-hat rail IEC/EN 60715
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Busbar tag shroud to BGV A3
Degree of protection			
Integrated			IP40
Terminal cross-section			
Solid		mm ²	1.5 - 33
flexible		mm ²	2 x 16
Terminal cross-section			M5 (Pozidriv PZ2)
Admissible ambient temperature range		°C	-25 +40
Climatic proofing			according to IEC/EN 61008
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	A	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	3.8
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
			0
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	А	40
Rated fault current	А	0.3
Mounting method		DIN rail
Leakage current type		A
Selective protection		Yes
Short-circuit breaking capacity (Icw)	kA	A 10
Surge current capacity	kA	A 5
Frequency		50 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	70.5
Short-time delayed tripping		No

Dimensions

