DATASHEET - HNC-40/2/003



Residual current circuit breaker (RCCB), 40A, 2p, 30mA, type AC

Powering Business Worldwide*

Part no. HNC-40/2/003 Catalog No. 194691

Delivery program

		Residual current circuit-breakers
		2 pole
		Residual current circuit-breaker for residential and commercial applications
In	Α	40
I _{cn}	kA	6
$I_{\Delta N}$	Α	0.03
		Type AC
	s	non-delayed
		HNC
		AC current sensitive
		Partly surge-proof 250 A
	I _{cn}	I _{cn} kA I _{ΔN} A

Technical data

Electrical

Rated operational voltage	U _e	V	
	U _e	V AC	
Rated operating voltage	U _e	V AC	230
Rated frequency	f	Hz	50
Sensitivity			AC current sensitive
Rated short-circuit strength	I _{cn}	kA	6
Mechanical			
Mechanical Device height		mm	80
		mm mm	80 35 (2TE)

Design verification as per IEC/EN 61439

In	Α	40
P_{vid}	W	0
P _{vid}	W	5.8
	°C	-25
	°C	60
		Starting at 40 °C, the max. permissible continuous current decreases by 2.5% for every 1 °C
		Meets the product standard's requirements.
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		Does not apply, since the entire switchgear needs to be evaluated.
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	P _{vid}	P _{vid} W P _{vid} W °C

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 7.0

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])

Number of poles		2
Rated voltage	V	230
Rated current	Α	40
Rated fault current	mA	30
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
Frequency		50 Hz
Additional equipment possible		Yes
With interlocking device		Yes
Degree of protection (IP)		IP20
Width in number of modular spacings		2
Built-in depth	mm	45
Ambient temperature during operating	°C	-25 - 40
Pollution degree		2
Connectable conductor cross section multi-wired	mm²	1.5 - 16
Connectable conductor cross section solid-core	mm²	1.5 - 35