### **DATASHEET - HNC-40/4/003**



### Residual current circuit breaker (RCCB), 40A, 4p, 30mA, type AC

Powering Business Worldwide\*

Part no. HNC-40/4/003 Catalog No. 194694

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Basic function			Residual current circuit-breakers
Number of poles			4 pole
Application			Residual current circuit-breaker for residential and commercial applications
Rated current	In	Α	40
Rated short-circuit strength	I <sub>cn</sub>	kA	6
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type AC
Tripping		s	non-delayed
Product range			HNC
Sensitivity			AC current sensitive
Impulse withstand current			Partly surge-proof 250 A

## **Technical data**

#### **Electrical**

Types conform to			IEC/EN 61008
Rated operational voltage	U <sub>e</sub>	V	
	U <sub>e</sub>	V AC	
Rated operating voltage	U <sub>e</sub>	V AC	230/400
Rated frequency	f	Hz	50
Sensitivity			AC current sensitive
Rated short-circuit strength	I <sub>cn</sub>	kA	6
Max. admissible back-up fuse			
Short-circuit	gG/gL	Α	63
Overload	gG/gL	Α	25
Max. back-up fuse		A gL/gG	25
Maximum max. as short-circuit protective device		A gL	
Back-up fuse		A gL	63
Mechanical			
Device height		mm	80
Built-in width		mm	70 (4TE)
Thickness of busbar material		mm	0.8 - 2
Admissible ambient temperature range		°C	-25 - +60

### Design verification as per IEC/EN 61439

In	Α	40
$P_{\text{vid}}$	W	0
$P_{vid}$	W	13.1
	°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.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
	P <sub>vid</sub>	P <sub>vid</sub> W P <sub>vid</sub> W °C

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 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**

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Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RC	CCB) (EC000003)		
Electric engineering, automation, process control engineering / Electrical in (ecl@ss10.0.1-27-14-22-01 [AAB906014])	nstallation, device / Re	sidual cur	rrent protection system / Residual current circuit breaker (RCCB)
Number of poles			4
Rated voltage		V	230
Rated current		Α	40
Rated fault current		Α	0.03
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			4
Built-in depth		mm	45
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