## Miniature circuit breaker (MCB), 32A, 3p, C-Char



Part no. AZ-3-C32 Catalog No. 211781 Alternate Catalog AZ-3-C32

No.

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			С
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	32
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25
Product range			AZ

## Technical data Electrical

Mounting width per pole

Degree of Protection

Terminal protection
Terminal capacities

Terminals top and bottom

Mounting

Standards			EN 45545-2; IEC 61373
Rated operational voltage	U <sub>e</sub>	V	
	U <sub>e</sub>	V AC	230/400
		V DC	60 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25
Operational switching capacity		kA	20
Characteristic			Similar: D, C
Max. back-up fuse		A gL/gG	200
Selectivity Class			Compliant with Class 3
lifespan			
Lifespan	Operations		> 10000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	90

mm

mm<sup>2</sup>

 $mm^2$ 

27

2.5 ... 50

IEC/EN 60715 top-hat rail

IP20, IP40 (when fitted)
Lift terminals

Finger and back-of-hand proof to BGV A2

## Design verification as per IEC/EN 61439

In	Α	32
P <sub>vid</sub>	W	0
$P_{\text{vid}}$	W	11.4
$P_{vs}$	W	0
P <sub>diss</sub>	W	0
	°C	-25
	°C	55
		linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
	P <sub>vid</sub>	P <sub>vid</sub> W P <sub>vid</sub> W P <sub>vs</sub> W P <sub>diss</sub> W

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 8.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ect@ss10.0.1-27-14-19-01 [AAB905014])

(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Built-in depth	mm	75
Release characteristic		С
Number of poles (total)		3
Number of protected poles		3
Rated current	Α	32
Rated voltage	V	400
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V $$	kA	0
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V $$	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$	kA	25
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	kA	25
Frequency	Hz	50 - 60
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm²	2.5 - 50

Connectable conductor cross section solid-core	mm²	2.5 - 50
Explosion-proof		No