Miniature circuit breaker (MCB), 16 A, 2p, characteristic: C



Part no. FAZ-C16/2-NA
Catalog No. 102170
Alternate Catalog FAZ-C16/2-NA
No.

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			С
Application			Switchgear for export to North America (UL-listed)
Rated current	In	Α	16
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Product range			FAZ-NA

## **Technical data**

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Electrical			
Standards			UL 489, CSA C22.2 No. 5 IEC 60947-2
Rated operational voltage	U <sub>e</sub>	V	
	U <sub>e</sub>	V AC	277 Y
		V DC	60
Rated voltage according to IEC/EN 60947-2	$U_n$	V AC	440
Rated voltage according to UL	Un	V AC	480Y/277
Rated insulation voltage	Ui	V	440
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Breaking capacity according to UL		kA	14 (UL489)
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I <sub>cu</sub>	kA	15
Operational switching capacity		kA	7.5
Characteristic			B, C, D
Max. back-up fuse		A gL/gG	125
Selectivity Class			3
lifespan			
Electrical	Operations		≧ 1500
electrical UL	Operations		≧ 6000
Mechanical	Operations		≧ 10000
Lifespan	Operations		> 20000
Direction of incoming supply			as required
References			
Auxiliary switch for subsequent installation			Z-IHK-NA 113895
Tripping signal contact for subsequent installation			Z-NHK 248434
Switching interlock			Z-IS/SPE-1TE 274418
Shunt trip release			FAZ-XAA-NA110-415V AC 102036 FAZ-XAA-NA12-110V AC 102037
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	105

Terminal capacities	$mm^2$	
	mm <sup>2</sup>	1 x 25
	mm <sup>2</sup>	2 x 10
Tightening torque of fixing screws	N/m	max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in)
Mounting position		As required
Contact position indicator		red / green
Operating ambient temperature min. (UL)	°C	-5
Operating ambient temperature max. (UL)	°C	+ 40

Design verification as per IEC/EN 61439

Design vernication as per IEG/EN 01439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	16
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.3
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.	4.00	°C	-40
Operating ambient temperature max.		°C	75
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
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) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Built-in depth	mm	70.5

Release characteristic		C
Number of poles (total)		2
Number of protected poles		2
Rated current	А	16
Rated voltage	V	415
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	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	15
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		2
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25
Explosion-proof		No