DATASHEET - FAZ-C16/2-NA

Part no. Catalog No.

No.



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

FAZ-C16/2-NA

102170

Alternate Catalog FAZ-C16/2-NA



Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			C
Application			Switchgear for export to North America (UL-listed)
Rated current	In	А	16
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Product range			FAZ-NA

Technical data

Animal of the second	Electrical			
Image: space of the space of	Standards			
Image: series of the series	Rated operational voltage	U _e	V	
Rated voltage according to IEC/EN 60947-2VaVAC40Rated voltage according to ULVa80/277Breaking capacity acc. to IEC/EN 60947-2VaKa10Breaking capacity according to ULVaKa10CharacteristicKa101010Solectivity ClassFa707010Solectivity ClassFa707070IfespanFa7007070Dectoro fincoming supplyFa20007070Solectivity ClassFa707070Mounting width per poleFa707070Mounting width per poleFa707070Solectivity ClassFa707070MountingFaFC707070Terminal protectionFa707070Terminal protectionFa707070Tightening torgue of fixing screwsFa7070SolectionFa707070SolectionFa707070SolectionFa707070SolectionFa707070SolectionFa707070SolectionFa707070SolectionFa707070SolectionFa707070SolectionFa707070So		U _e	V AC	277/480 Y
Aread working capacity acc. to IEC/EN 60947-2 Vacult 809/277 Braking capacity acc. to IEC/EN 60947-2 Fea 4000000000000000000000000000000000000			V DC	60
Rate witching capacity acc. to IEC/EN 60947-2 Icu KA 5 Breaking capacity acc. to IEC/EN 60947-2 Icu KA 14 (UL489) Breaking capacity acc. to IEC/EN 60947-2 B C 3 Characteristic B C, D C S Selectivity Class B C, D C S Lifespan Operations S 20000 S S Direction of incoming supply So required S	Rated voltage according to IEC/EN 60947-2	Un	V AC	440
Breaking capacity according to UL Ka I4 (UL489) Characteristic B, C, D Selectivity Class B, C, D Selectivity Class B, C, D Lifespan Operation B Direction of incoming supply A Selectivity Class Selectivity Class Operation Selectivity Class Standard front dimension M Selectivity Class Selectivity Class M Selectivity Class Mounting width per pole M Selectivity Class Direction of Incoming supply FC/R 60715 top-hat raiil Income terminals Degree of Protection Figer and back-of-hand proof to BGV A2 Figer and back-of-hand proof to BGV A2 Terminal protection Figer and back-of-hand proof to BGV A2 Selectivity Selectity Selectivity Selectivity Selectivity Selectivity Selecti	Rated voltage according to UL	Un	V AC	480Y/277
Characteristic B, C, D Characteristic B, C, D Selectivity Class S Selectivity Class S Lifespan Operations Lifespan Operations Direction of incoming supply Poperations Mechanical srequired Mechanical mm Standard front dimension mm Follosure height mm Mounting width per pole mm Mounting Mm Degree of Protection mm Terminal protection Follow and battom Terminal protection Follow and battom Tightening torque of fixing screws KVm Standard fixing screws KVm	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Selectivity Class Image: Selectivity Cla	Breaking capacity according to UL		kA	14 (UL489)
Ifespan Perations Perations >0000 Direction of incoming supply se quired Mechanical se quired Standard front dimension mm \$1 Enclosure height mm \$1 Mounting width per pole mm \$1 Mounting Ferderational 10 Degree of Protection mm \$1 Terminal top and bottom Mm \$1 Terminal protection Mm \$1 Terminal protection Mm \$1 Tightening torque of fixing screws Mm \$1	Characteristic			B, C, D
Lifespan Operations >20000 Direction of incoming supply as required Mechanical mm 5 Standard front dimension mm 10 Enclosure height mm 10 Mounting width per pole mm 17.7 Mounting FC/R 10715 top-hat rail 10 Degree of Protection FC/R 10715 top-hat rail 10 Terminal stop and bottom FC Finer and back-of-hand proof to BGV A2 Tightening torque of fixing screws N/m Singar and back-of-hand proof to BGV A2	Selectivity Class			3
Direction of incoming supply as required Mechanical mm Standard front dimension mm Enclosure height mm Mounting width per pole mm Mounting mm Digree of Protection mm Terminals top and bottom Mounting Terminal protection Mounting Terminal protection Mounting Tightening torque of fixing screws Mounting Mounting width per pole Mounting Mounting Mounting Degree of Protection Mounting Terminals top and bottom Mounting Terminal protection Mounting Terminal protection Mounting Tightening torque of fixing screws Mounting Mounting wide per pole Mounting Tightening torque of fixing screws Mounting Mounting wide per pole Mounting Mounting wide per pole Mounting wide per pole Mounting wide per pole Mounting wide per pole Terminal protection Mounting wide per pole Mounting wide per pole Mounting wide per pole	lifespan			
Mechanical mm 45 Standard front dimension mm 105 Enclosure height mm 17.7 Mounting width per pole mm 17.7 Mounting Fore pole Fore pole Degree of Protection Fore pole Fore pole Terminals top and bottom Fore pole Fore pole terminals Terminal protection Fore pole Fine and back-of-hand proof to BGV A2 Tightening torque of fixing screws Nm Max. 2.4 With 10.2 AWG: 2.4 Nm (21 lb-in) #10.8 AWG: 2.4 Nm (36 lb-in)	Lifespan	Operations		> 20000
Standard front dimensionmm45Enclosure heightmm105Mounting width per polemm17.7MountingIC/EN 60715 top-hat railDegree of ProtectionICO IN INFORMATIONTerminals top and bottomICO INFORMATIONTerminal protectionICO INFORMATIONTightening torque of fixing screwsICO INFORMATIONNumber of fixing screwsICO INFORMATIONInterminal protectionINTORE Scale AND INFORMATIONInterminal protectionINTORE INFORMATION INFORMA	Direction of incoming supply			as required
Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting ECEN 60715 top-hat rail Degree of Protection Ferminals top and bottom Ferminals top and bottom Terminal protection Ferminal protection Ferminals top and bottom Tightening torque of fixing screws Ferminals Ferminal protection	Mechanical			
Mounting width per polemm17.7MountingIEC/EN 60715 top-hat railDegree of ProtectionIEC/EN 60715 top-hat railTerminals top and bottomIEC/EN 60715 top-hat railTerminal protectionTwin-purpose terminalsTerminal protectionIEC = Top and back-of-hand proof to BGV A2Tightening torque of fixing screwsN/mMining torque of fixing screwsImage: Strews and Strews	Standard front dimension		mm	45
Mounting IEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal protection Image: Amage: Ama	Enclosure height		mm	105
Degree of ProtectionP20, IP40 (when fitted)Terminals top and bottomTwin-purpose terminalsTerminal protectionFinger and back-of-hand proof to BGV A2Tightening torque of fixing screwsN/mMultiple and an and an antiple and an antiple and antiple anti	Mounting width per pole		mm	17.7
Terminals top and bottom Twin-purpose terminals Terminal protection Finger and back-of-hand proof to BGV A2 Tightening torque of fixing screws N/m max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #6 AWG: 4 Nm (36 lb-in)	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Finger and back-of-hand proof to BGV A2 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)	Degree of Protection			IP20, IP40 (when fitted)
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)	Terminals top and bottom			Twin-purpose terminals
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)	Terminal protection			Finger and back-of-hand proof to BGV A2
Mounting position As required	Tightening torque of fixing screws		N/m	UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in)
	Mounting position			As required

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	16
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	4.3

Static heat dissipation, non-current-dependent	$P_{\nu s}$	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
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 7.0

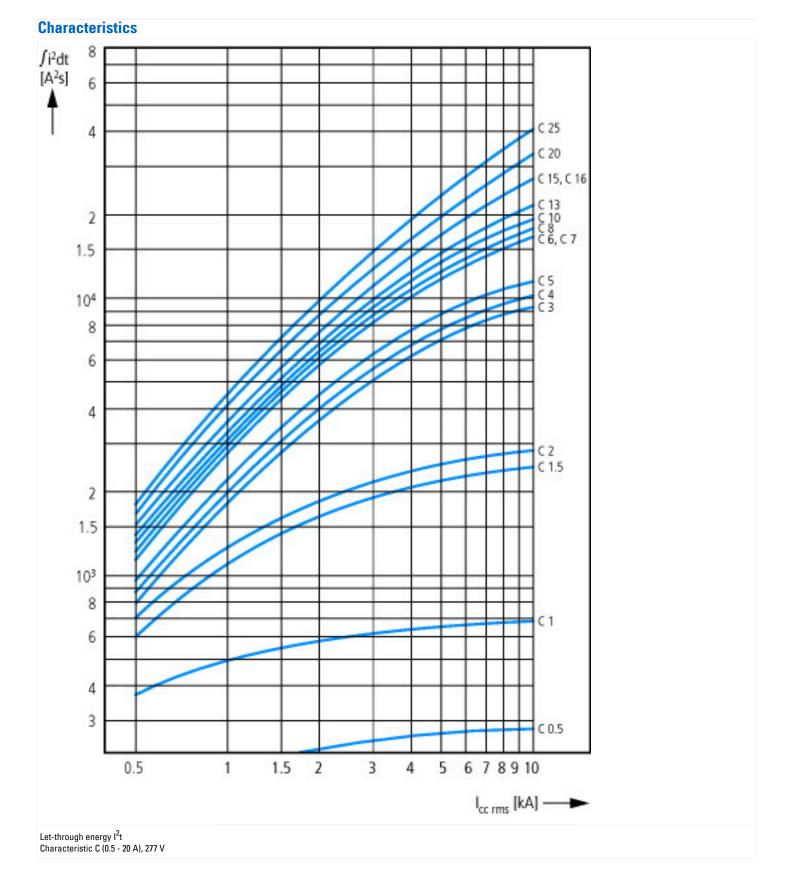
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

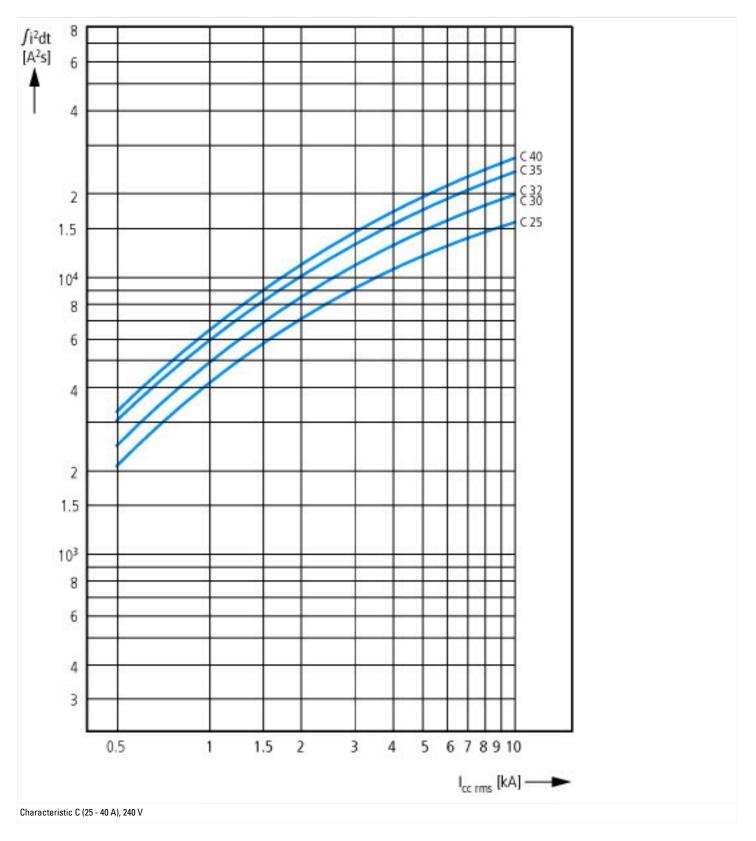
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

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 EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Voltage type		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2

Additional equipment possible		Yes
Width in number of modular spacings		2
Built-in depth	mm	70.5
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

Approvals	
Product Standards	IEC/EN 60947-2; EN 45545-2; IEC 61373; UL 489; CSA-C22.2 No. 5-09; CE marking
UL File No.	E235139
UL Category Control No.	DIVQ
CSA File No.	204453
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, suitable as BCPD
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit-Breaker	Yes
Max. Voltage Rating	≤ 32 A
Degree of Protection	IEC: IP20, UL/CSA Type: -





Additional product information (links)

Temperature dependency, derating

https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ-NA-RT.pdf