DATASHEET - FAZ-C20/3-NA



Miniature circuit breaker (MCB), 20 A, 3p, characteristic: C

Powering Business Worldwide*

Part no. FAZ-C20/3-NA Catalog No. 102251
Alternate Catalog FAZ-C20/3-NA

No

EL-Nummer 0001690995

(Norway)

Similar to illustration

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110	IIVATV	nrnnram
		program

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			С
Application			Switchgear for export to North America (UL-listed)
Rated current	In	Α	20
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ-NA

Technical data

Electrical

Rated operational voltage	Electrical			
Vac VAC 271/80 Y	Standards			
Rated voltage according to IEC/EN 60947-2 Rated voltage according to UL Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity acc. to IEC/EN 6094-2 Rated switching capacity acc. to IEC/EN	Rated operational voltage	U _e	V	
Rated voltage according to IEC/EN 60947-2 Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Breaking capacity according to UL Characteristic Selectivity Class Iifespan Cliespan Operations Prection of incoming supply Mechanical Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminal protection Terminal protection Terminal protection Tightening torque of fixing screws When the standard from the standard stop and bottom Terminal protection Tightening torque of fixing screws When the standard from the standard stop and bottom Terminal protection Tightening torque of fixing screws When the standard from the standard stop and bottom Tightening torque of fixing screws Tightening torque of fixing screws When the standard from the standard stop and bottom Tightening torque of fixing screws Tightening torque of fixing screws Tightening torque of fixing screws Tight and the standard stop and bottom To the standard screws and the standard stop and bottom Tarminal Protection Tight and the standard screws and the standard stop and bottom Tight and the standard stop and screws and the standard screws and t		U _e	V AC	277/480 Y
Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity according to UL Rated switching switch per pole Rated switching capacity according to UL Rated switching switch per pole Rated sw			V DC	60
Rated switching capacity acc. to IEC/EN 60947-2 Breaking capacity according to UL Characteristic Characteristic Selectivity Class Lifespan Lifespan Operations Operations Tolitection of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal protection Tightening torque of fixing screws Minimum (25 lb-in) #6 AWG: 24 Nm (25 lb-in) #6 AWG: 24 Nm (25 lb-in) #6 AWG: 44 Nm (25 lb-in) #6 AWG: 44 Nm (25 lb-in) #6 AWG: 44 Nm (25 lb-in)	Rated voltage according to IEC/EN 60947-2	Un	V AC	440
Breaking capacity according to UL Characteristic Selectivity Class Ilfespan Lifespan Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal protection Tightening torque of fixing screws KA I 4 (UL489) B, C, D B, C, D A (UL689) B, C, D A (UL690) B, C (UL689) B, C, D A (UL690) B, C (UL689) B, C (UL689) B, C (UL690) B, C (UL69	Rated voltage according to UL	Un	V AC	480Y/277
Characteristic Selectivity Class Iffespan Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws B, C, D 3 Augusta Augusta Augusta B, C, D Augusta Augusta Augusta Augusta Augusta B, C, D Augusta Augusta Augusta Augusta B, C, D Augusta Augusta Augusta Augusta Augusta B, C, D B, C, D B, Cal Manugta B, C, D B,	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Selectivity Class lifespan Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws N/m Max. 2.4 Lifespan Operations A 20000 as required A 5 F 6 Mm M 5 Enclosure height Mm M 105 IEC/EN 60715 top-hat rail IEC/EN 6071	Breaking capacity according to UL		kA	14 (UL489)
Lifespan Operations > 20000 Direction of incoming supply as required Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting EC/EN 60715 top-hat rail 1P20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal protection Twin-purpose terminals Terminal protection N/m max. 2.4 UL: ### ### ### ### ### ### ### ### ### ##	Characteristic			B, C, D
Lifespan Operations > 20000 Direction of incoming supply as required Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Company of Protection Ferminals top and bottom Terminals top and bottom Terminal protection Tightening torque of fixing screws N/m max. 2.4 UL: #18-12 AWG: 2.4 Nm (25 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #16 AWG: 4 Nm (36 lb-in)	Selectivity Class			3
Direction of incoming supply Mechanical Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Item Item Item Item Item Item Item Item	lifespan			
Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Irrinals top and bottom Terminal protection Irrinal Protection Irr	Lifespan	Operations		> 20000
Standard front dimension mm 45 Enclosure height mm 105 Mounting width per pole mm 17.7 Mounting Degree of Protection Internation International Internati	Direction of incoming supply			as required
Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws Tightening torque of fixing screws Tightening torque of fixing screws Terminal protection Tightening torque of fixing screws Tightening torque of	Mechanical			
Mounting width per pole mm 17.7 Mounting Degree of Protection Icrminals top and bottom Icrminal protection Icrminal protection Icrminal torque of fixing screws Icrminals torque of fixing screws Icrminals top and bottom Icrminal torque of fixing screws Icrminals top and bottom Icrminal torque of fixing screws Icrminals Icrminal protection Icrminal protection Icrminal protection Icrminal torque of fixing screws Icrminals Icrminal torque of fixing screws Icrminals Icrminal protection	Standard front dimension		mm	45
Mounting Degree of Protection Terminals top and bottom Terminal protection Tightening torque of fixing screws Mounting IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals Finger and back-of-hand proof to BGV A2 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)	Enclosure height		mm	105
Degree of Protection Terminals top and bottom Terminal protection Terminal protection Tightening torque of fixing screws Tightening t	Mounting width per pole		mm	17.7
Terminals top and bottom Terminal protection 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			IEC/EN 60715 top-hat rail
Terminal protection Finger and back-of-hand proof to BGV A2 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)	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

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	8.7
Static heat dissipation, non-current-dependent	P_{vs}	W	0

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Technical data ETIM 7.0

Width in number of modular spacings

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]) С Release characteristic 3 Number of poles (total) Number of protected poles 3 Rated current 20 Rated voltage 415 Rated insulation voltage Ui 440 Rated impulse withstand voltage Uimp kV 4 kA 0 Rated short-circuit breaking capacity Icn EN 60898 at 230 $\rm V$ Rated short-circuit breaking capacity Icn EN 60898 at 400 $\rm V$ kA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 $\rm V$ kΑ 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 $\rm V$ kΑ 15 Voltage type AC Frequency Hz 50 - 60 **Current limiting class** 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral Over voltage category 3 Pollution degree 2 Additional equipment possible Yes

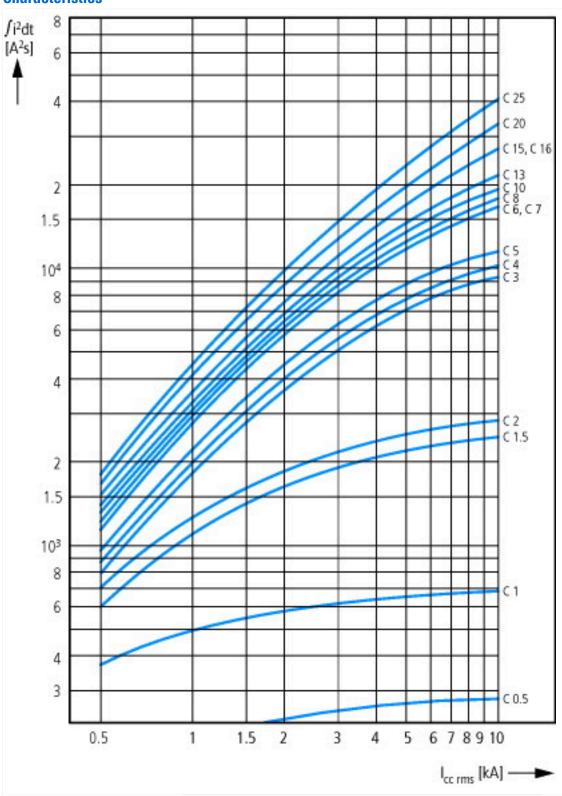
3

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

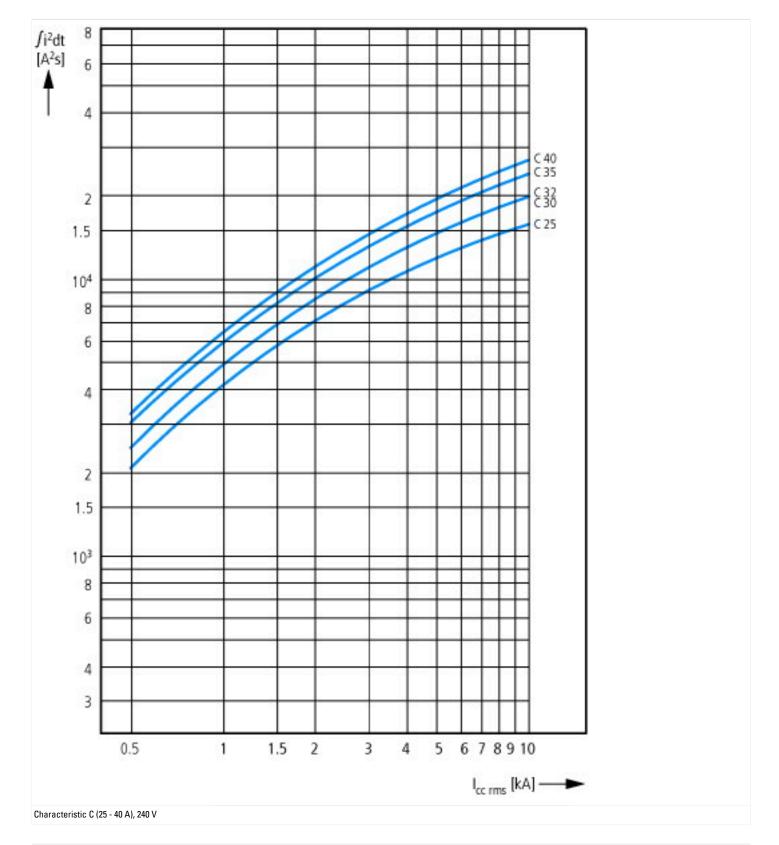
Approvals

Product Standards	IEC/EN 60947-2; 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: -

Characteristics



Let-through energy I²t Characteristic C (0.5 - 20 A), 277 V



Additional product information (links)

Temperature dependency, derating

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