DATASHEET - FAZ-D20/3-NA



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

Powering Business Worldwide

FAZ-D20/3-NA Part no. Catalog No. 102271 Alternate Catalog FAZ-D20/3-NA

EL-Nummer 0001691676 (Norway)

Similar to illustration

Delivery program				
Basic function			Miniature circuit-breakers	
Number of poles			3 pole	
Tripping characteristic			D	
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

Ited operational voltage Ue V AC V DC O O O O O O O O O O O O O O O O O O O	Liectrical			
Ue V AC 277/480 Y V DC 60 Acted voltage according to IEC/EN 60947-2 Acted switching capacity acc. to IEC/EN 60947-2 Acted switching	Standards			
V DC lated voltage according to IEC/EN 60947-2 Lated voltage according to UL Lated voltage according to UL Lated switching capacity acc. to IEC/EN 60947-2 Lated switching cap	Rated operational voltage	U _e	V	
Lifespan Lifespan Lated voltage according to IEC/EN 60947-2 Un V AC 415 A15 A164 A15 A164 A17		U _e	V AC	277/480 Y
tated voltage according to UL I cu			V DC	60
lated switching capacity acc. to IEC/EN 60947-2 Independent of the content of th	Rated voltage according to IEC/EN 60947-2	Un	V AC	415
theracteristic electivity Class fespan Lifespan Operations Operations > 20000 as required	Rated voltage according to UL	Un	V AC	480Y/277
delectivity Class fespan Lifespan Operations > 20000 as required	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
fespan Coperations	Characteristic			B, C, D
Lifespan Operations > 20000 Direction of incoming supply as required	Selectivity Class			3
lirection of incoming supply as required	lifespan			
	Lifespan	Operations		> 20000
Techanical	Direction of incoming supply			as required
	Mechanical			

Standard front dimension	n	nm	45
Enclosure height	n	mm	105
Mounting width per pole	n	mm	17.7
Mounting			IEC/EN 60715 top-hat rail
Degree of Protection			IP20, IP40 (when fitted)
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Finger and back-of-hand proof to BGV A2
Tightening torque of fixing screws	N	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

Design verification as per IEC/EN 61439

echnical 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	5.5
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0

°C	75
	70
	linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
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	Is the panel builder's responsibility.
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	Is the panel builder's responsibility.
	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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	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])

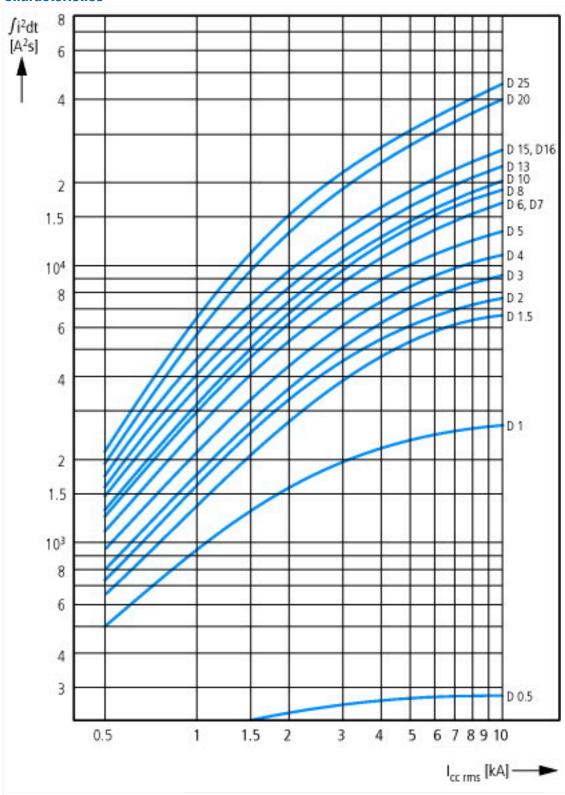
(ecl@ss10.0.1-27-14-19-01 [AAB905014])			
Release characteristic			D
Number of poles (total)			3
Number of protected poles			3
Rated current		Α	20
Rated voltage	,	V	415
Rated insulation voltage Ui	,	V	440
Rated impulse withstand voltage Uimp		kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 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			3
Built-in depth	1	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

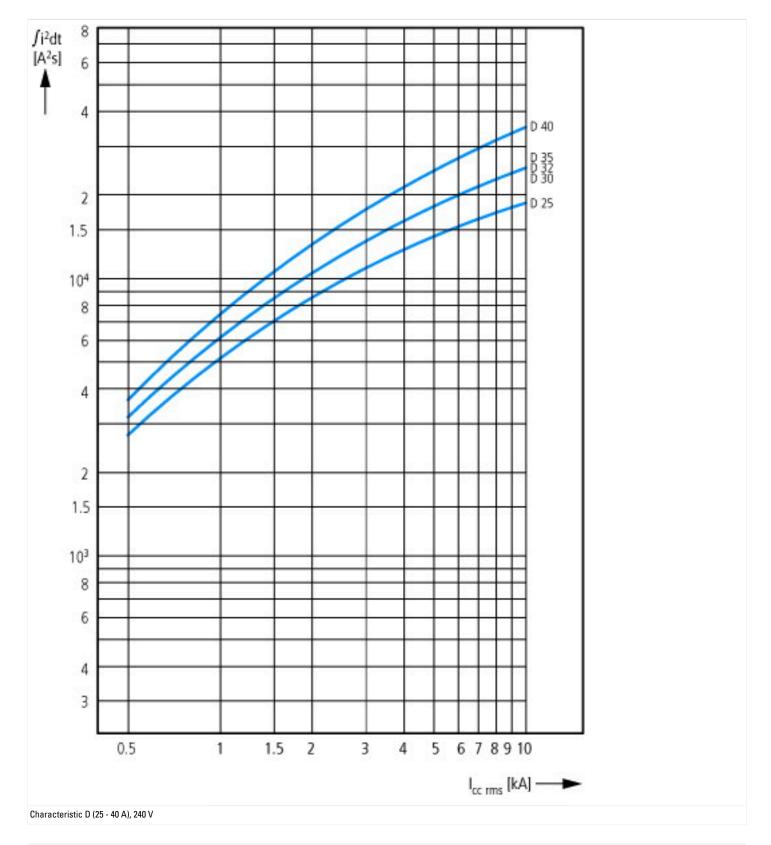
Approvals

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 D (0.5 - 20 A), 277 V



Additional product information (links)

Temperature dependency, derating

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