## **DATASHEET - FAZ-D16/3-NA**



Miniature circuit breaker (MCB), 16 A, 3p, characteristic: D

Powering Business Worldwide\*

Part no. FAZ-D16/3-NA Catalog No. 102270 Alternate Catalog FAZ-D16/3-NA

N<sub>o</sub>

**EL-Nummer** 1691675

(Norway)
Similar to illustration

**Delivery program** 

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	16
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Product range			FAZ-NA

# **Technical data**

	rical

Licotricui			
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	Un	V AC	415
Rated voltage according to UL	Un	V AC	480Y/277
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Characteristic			B, C, D
Selectivity Class			3
lifespan			
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			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/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)

## Design verification as per IEC/EN 61439

Mounting position

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	5.2
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0

As required

°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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	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 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@ss10.01-27-14-19-01 [AAB905014])

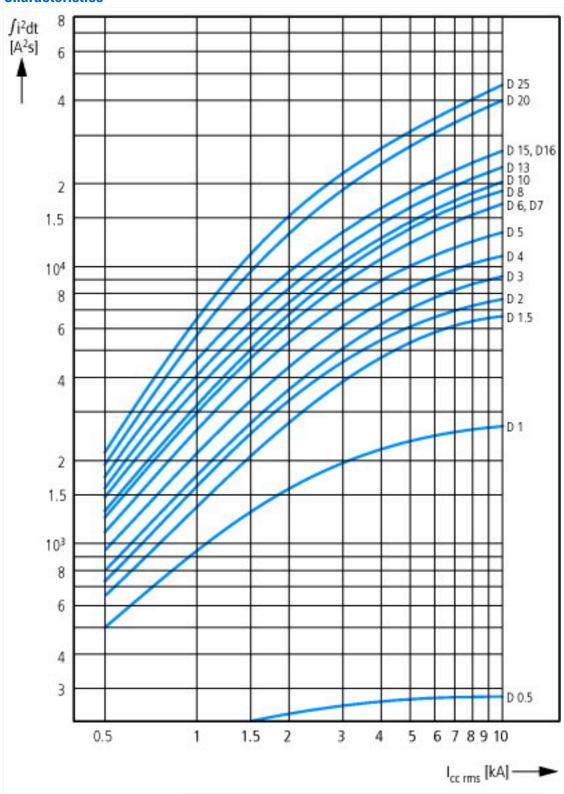
(ecl@ss10.0.1-27-14-19-01 [AAB905014])			
Built-in depth	n	nm	70.5
Release characteristic			D
Number of poles (total)			3
Number of protected poles			3
Rated current	Α	4	16
Rated voltage	V	/	415
Rated insulation voltage Ui	V	/	440
Rated impulse withstand voltage Uimp	k	:V	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	k	:A	0
Voltage type			AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V $$	k	:A	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	k	:A	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	k	:A	15
Frequency	Н	łz	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			3

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

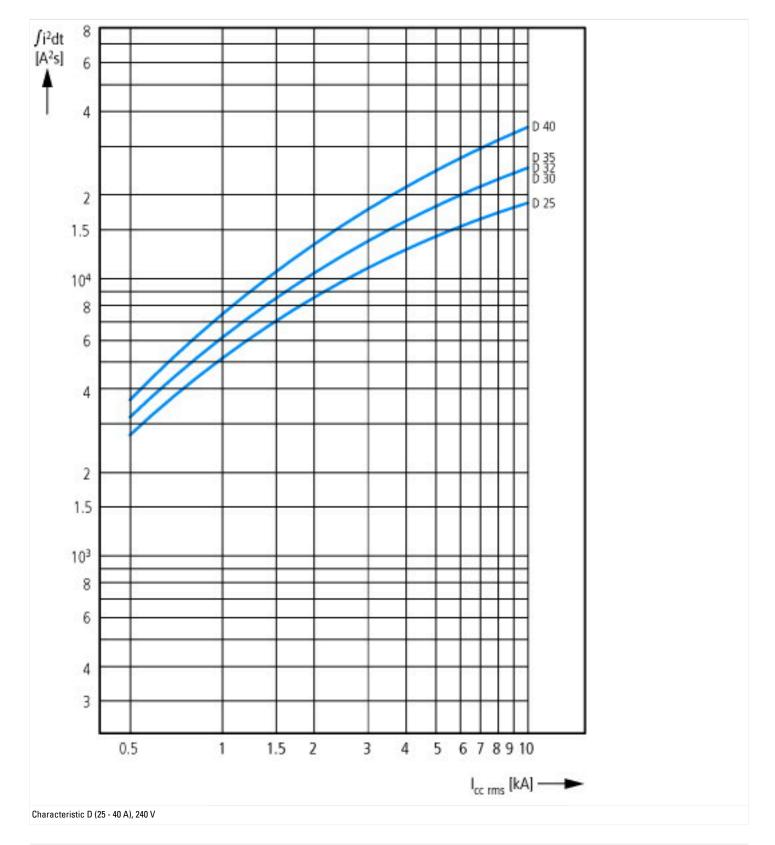
# Approvals

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  Suitable for  Suitable for  Current Limiting Circuit-Breaker  Max. Voltage Rating  E235139  DIVQ  204453  Value  1432-01  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  ≤ 32 A	• •	
DIVQ CSA File No. 204453 CSA Class No. 1432-01 Vorth America Certification Vegically designed for North America Suitable for Current Limiting Circuit-Breaker  Max. Voltage Rating  DIVQ DIVQ 204453  Lugary 1432-01 UL listed, CSA certified Yes, suitable as BCPD Feeder circuits, branch circuits Yes 432 A	Product Standards	IEC/EN 60947-2; EN 45545-2; IEC 61373; UL 489; CSA-C22.2 No. 5-09; CE marking
CSA File No.  204453  CSA Class No.  1432-01  North America Certification  UL listed, CSA certified  Yes, suitable as BCPD  Suitable for  Feeder circuits, branch circuits  Current Limiting Circuit-Breaker  Max. Voltage Rating  204453  1432-01  UL listed, CSA certified  Yes, suitable as BCPD  Feeder circuits, branch circuits  Yes  ≤ 32 A	UL File No.	E235139
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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	CSA Class No.	1432-01
Suitable for Feeder circuits, branch circuits  Current Limiting Circuit-Breaker Yes  Max. Voltage Rating ≤ 32 A	North America Certification	UL listed, CSA certified
Current Limiting Circuit-Breaker  Yes  Max. Voltage Rating  ≤ 32 A	Specially designed for North America	Yes, suitable as BCPD
Max. Voltage Rating ≤ 32 A	Suitable for	Feeder circuits, branch circuits
	Current Limiting Circuit-Breaker	Yes
Degree of Protection IEC: IP20, UL/CSA Type: -	Max. Voltage Rating	≤ 32 A
	Degree of Protection	IEC: IP20, UL/CSA Type: -

## **Characteristics**



Let-through energy I<sup>2</sup>t Characteristic D (0.5 - 20 A), 277 V



## **Additional product information (links)**

Temperature dependency, derating

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