DATASHEET - FAZ-D16/3-RT



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

Powering Business Worldwide

FAZ-D16/3-RT Part no. Catalog No. 102310 Alternate Catalog FAZ-D16/3-RT

EL-Nummer 1691886

(Norway)

Similar to illustration

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	16
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ-RT

Technical data

Electrical

Standards			UL 489, CSA C22.2 No. 5 IEC 60947-2
Rated operational voltage	U _e	V	
	U _e	V AC	277/480 Y
		V DC	60
Rated voltage according to IEC/EN 60947-2	U_{n}	V AC	415
Rated voltage according to UL	U_{n}	V AC	480Y/277
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	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)
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	16
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	5.2
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0

°C	
	75
	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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	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.
	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.
	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	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])

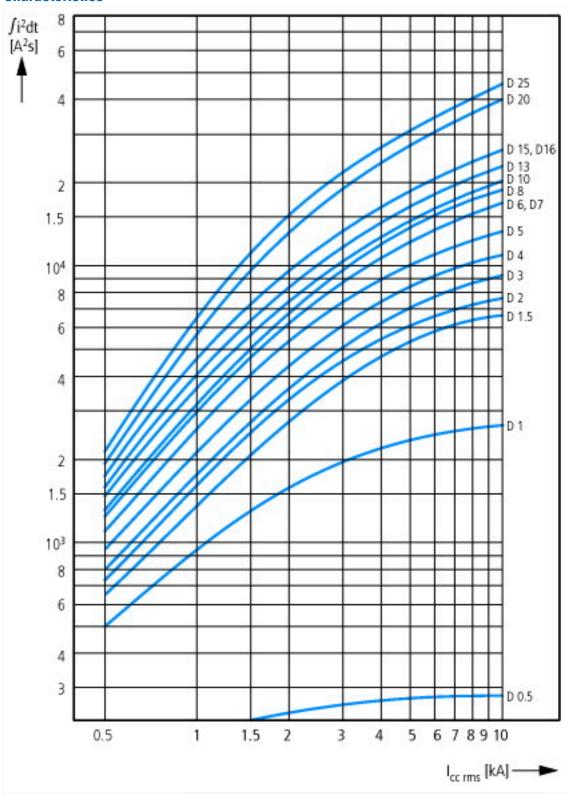
Release characteristic Number of poles (total) Number of protected poles Rated current Rated current Rated voltage Rated insulation voltage Uin Rated insulation voltage Uinp Rated insulation voltage Uinp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EC 60947-2 at 230 V Rated short-circuit breaking capacity Icn EC 60947-2 at 400 V Rated short-circuit breaking capacity Icn EC 60947-2 a	(ecl@ss10.0.1-27-14-19-01 [AAB905014])	,		
Number of protected poles Rated current Rated voltage V 415 Rated insulation voltage Ui Rated insulation voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 240 V Voltage type Requency R	Release characteristic		D)
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Rated short-circuit breaking capacity Icn EN 60898 at 230 V	Rated insulation voltage Ui	V	44	40
Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rate Short-circuit breaking capacity Ic	Rated impulse withstand voltage Uimp	kV	V 4	
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	k/A	Α 0	
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type AC Frequency Hz 50 - 60 Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	k.A	Α 0	
Voltage type AC Frequency Hz 50 - 60 Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings AC AC AC AC AC BY 50 - 60 No No No No Ves 3 4 5 6 7 7 8 7 8 8 8 8 8 8 8 8 8	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	k.A	A 1	5
Frequency Current limiting class 3 Suitable for flush-mounted installation No Concurrently switching N-neutral No Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Hz 50 - 60 No No No No No Suitable for flush-mounted installation No No 2 3 Width in number of modular spacings	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	k.A	A 1	5
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Suitable for flush-mounted installation Concurrently switching N-neutral No Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings No Yes 3 Yes	Frequency	Hz	z 50	0 - 60
Concurrently switching N-neutral Over voltage category 3 Pollution degree 2 Additional equipment possible Width in number of modular spacings No 2 X X X X X X X X X X X X	Current limiting class		3	
Over voltage category Pollution degree 2 Additional equipment possible Width in number of modular spacings 3 Yes Width in number of modular spacings	Suitable for flush-mounted installation		N	No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 3	Concurrently switching N-neutral		N	No
Additional equipment possible Yes Width in number of modular spacings 3	Over voltage category		3	
Width in number of modular spacings 3	Pollution degree		2	
	Additional equipment possible		Ye	'es
Built-in depth mm 70.5	Width in number of modular spacings		3	
	Built-in depth	mı	nm 70	0.5

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

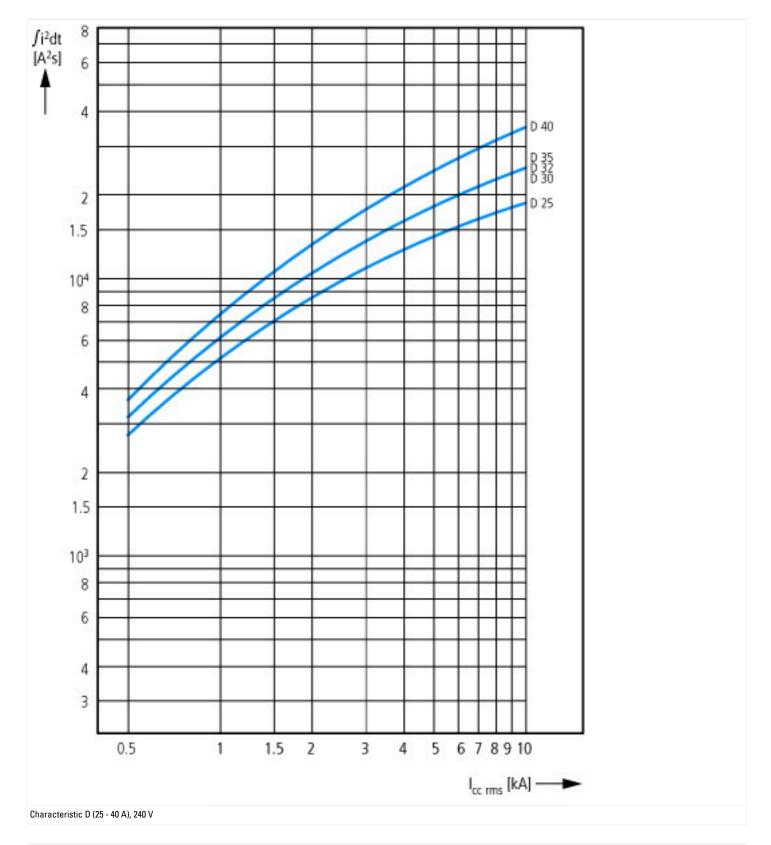
Approvals

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: -

Characteristics



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



Additional product information (links)

Temperature dependency, derating

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