DATASHEET - FAZ-D25/1

Miniature circuit breaker (MCB), 25 A, 1p, characteristic: D



Part no. FAZ-D25/1 Catalog No. 278586 Alternate Catalog FAZ-D25/1 No. EL-Nummer 1695218 (Norway)



Similar to illustration

Delivery program

Dontor, program			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	25
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Product range			FAZ

Technical data

Electrical			
Standards			IEC/EN 60947-2 IEC/EN 60898
Rated operational voltage	U _e	V	
	U _e	V AC	240/415
		V DC	60 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Operational switching capacity		kA	7.5
Characteristic			B, C, D, K, S, Z
Max. back-up fuse		A gL/gG	125
Selectivity Class			3
lifespan			
Lifespan	Operations		> 10000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	80
Mounting width per pole		mm	17.5
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
Terminal capacities		mm ²	
		mm ²	1 × 25
		mm ²	2 x 10
Thickness of busbar material		mm	0.8 2
Mounting position			As required

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	25
Heat dissipation per pole, current-dependent	P _{vid}	W	0

Equipment heat dissipation, current-dependent	P _{vid}	W	2.5
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	w	0
Operating ambient temperature min.	· uiss	°C	-40
Operating ambient temperature max.		°C	75
		U	/s 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])

Number of protected poles Image: Protected poles Rated current A S Rated voltage V 30 Rated voltage Ui V 40 Rated insulation voltage Uimp K 40 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 10 Voltage type KA 5 Voltage type KA 5 Frequercy KA 10 Current limiting class So 60 10 Stable for flush-mounted installation So 60 10	(eci@ss10.0.1-27-14-19-01 [AAB905014])		
Number of protected poles Image:	Release characteristic		D
Rated current A B <	Number of poles (total)		1
Rade voltage V 30 Rade disulation voltage Ui V 40 Rade disulation voltage Uimp KV 40 Rade dispulse withstand voltage Uimp KV 40 Rade dispulse withstand voltage Uimp KV 40 Rated short-circuit breaking capacity Icn EN 60898 at 200 V KA 10 Rated short-circuit breaking capacity Icn EN 60897 at 230 V KA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 10 Voltage type KA 10 10 Voltage type KA 10 10 Voltage type KA 10 10 Frequency KA 10 10 Current limiting class KI 10 10 Suitable for flush-mounted installation KI 10 10 Currently switching N-neutral KI 10 10	Number of protected poles		1
Rated insulation voltage Ui 440 Rated inpulse withstand voltage Uinp KV 40 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 Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EN 60897-2 at 230 V KA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 10 Voltage type KA 10 10 Frequency KA 10 10 Current limiting class KA 10 10 Sutable for flush-mounted installation KA 10 10	Rated current	А	25
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 Icn EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 5 Voltage type KA 5 Frequency KA 5 Current limiting class Frequency So Sutable for flush-mounted installation E So Sutable for flush-mounted installation E Mo Sutable for flush-mounted installation E Mo	Rated voltage	V	230
Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 10 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 KA 10 Frequency KA 10 Current limiting class KA 10 Sutable for flush-mounted installation KA 10 Kate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 10 Kate Short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 10 Voltage type KA 10 10 Frequency KA 10 10 Current limiting class KA 10 10 Sutable for flush-mounted installation KA 10 10 Ka KA 10 10 10 10 <td>Rated insulation voltage Ui</td> <td>V</td> <td>440</td>	Rated insulation voltage Ui	V	440
Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 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 KA 10 Frequency KA 15 Current limiting class So 60 16 Suitable for flush-mounted installation Management 3 Korrently switching N-neutral Management No	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 5 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 5 Voltage type KA 5 Frequency T 50-60 Current limiting class So 6 Suitable for flush-mounted installation Image: Solution of the solution	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 5 Voltage type AC Frequency Hz 50-60 Current limiting class Solitable for flush-mounted installation Main and the second seco	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Voltage type AC Frequency Hz 50-60 Current limiting class Solon 3 Suitable for flush-mounted installation Image: Solon No Concurrently switching N-neutral Image: Solon No	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Frequency Hz 50-60 Current limiting class Suitable for flush-mounted installation Main Concurrently switching N-neutral Main No	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Current limiting class Market Biological Concurrently switching N-neutral Market Biological Concurrently switching N-neutral Market Biological Concurrently switching N-neutral	Voltage type		AC
Suitable for flush-mounted installation Mo Concurrently switching N-neutral Mo	Frequency	Hz	50 - 60
Concurrently switching N-neutral No	Current limiting class		3
	Suitable for flush-mounted installation		No
Over voltage category 3	Concurrently switching N-neutral		No
	Over voltage category		3

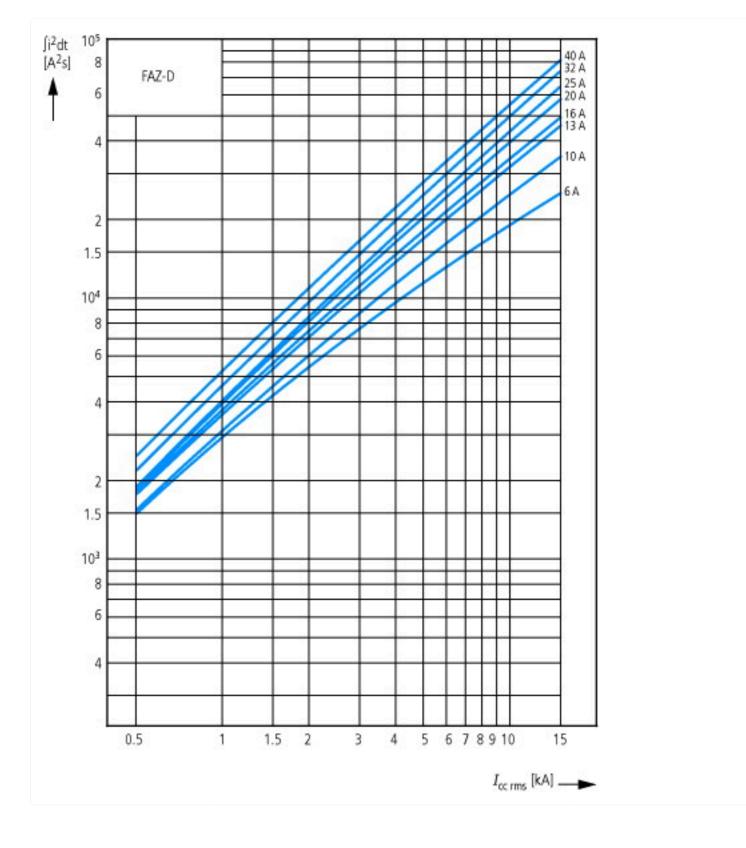
Pollution degree			2
Additional equipment possible			Yes
Width in number of modular spacings			1
Built-in depth	1	mm	70.5
Degree of protection (IP)			IP20
Ambient temperature during operating		°C	-25 - 75
Connectable conductor cross section multi-wired	1	mm²	1 - 25
Connectable conductor cross section solid-core	1	mm²	1 - 25

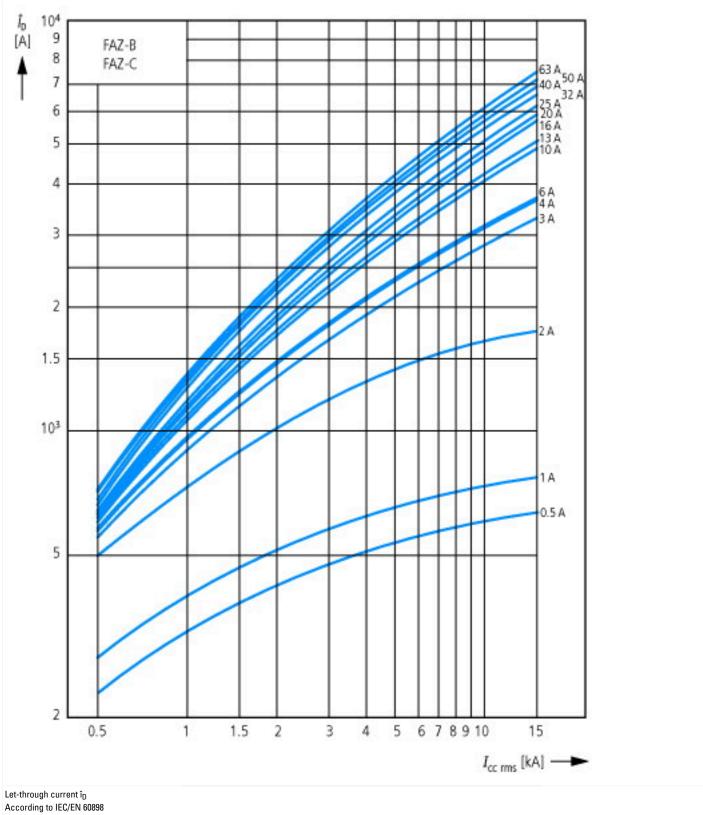
Approvals

Product Standards	IEC/EN 60947-2; IEC/EN 60898; EN 45545-2; IEC 61373; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	277 VAC; 48 VDC
Degree of Protection	IEC: IP20; UL/CSA Type: -

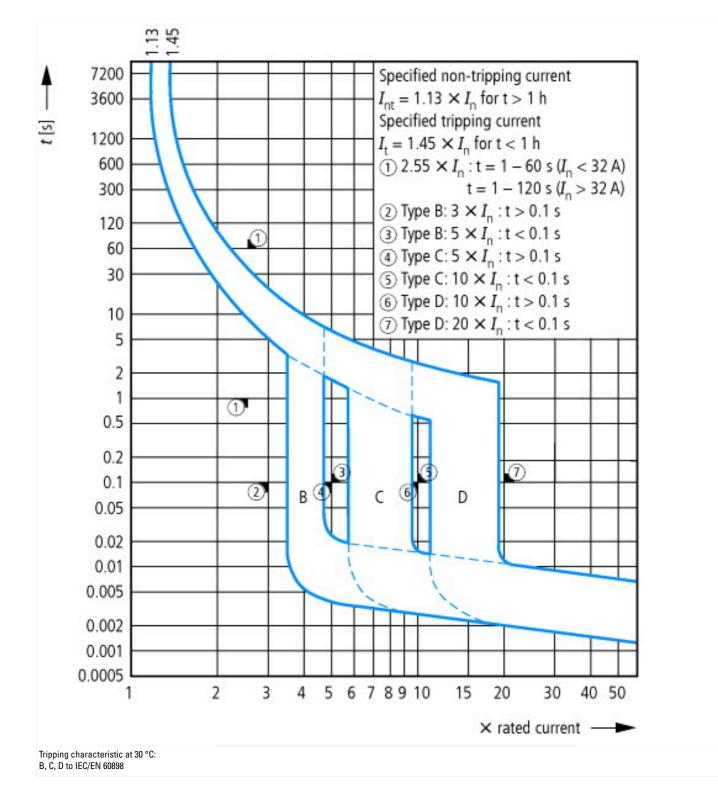
Characteristics



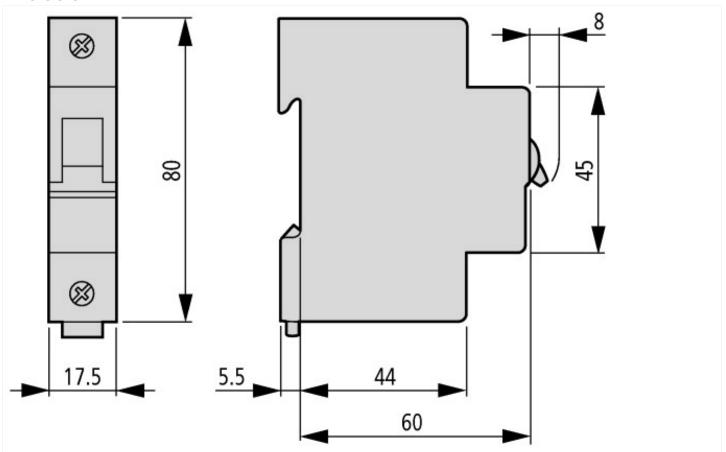








Dimensions



Additional product information (links)

Temperature dependency, derating

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