DATASHEET - FAZ-B63/3



Miniature circuit breaker (MCB), 63A, 3p, B-Char, AC

Powering Business Worldwide*

Part no. FAZ-B63/3
Catalog No. 278853
Eaton Catalog No. FAZ-B63/3
EL-Nummer 0001695129
(Norway)

Similar to illustration

Technical data Electrical

Rated operational voltage	Electrical			
V	Standards			
Rated voltage according to UL Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity according to UL Operational switching capacity Characteristic Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Iffespan Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Oberse of Protection Terminals top and bottom Terminal capacities Terminal capacities Thickness of busbar material Thickness of busbar material Thickness of busbar material Terminals to a continuation of the c	Rated operational voltage	U _e	V	
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Rated switching capacity acc. to IEC/EN 60947-2 Breaking capacity according to UL Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Iffespan Operations Liespan Operations Operations Operations Finction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal capacities Terminal capacities Timichness of busbar material Thickness of busbar material			V DC	60 (per pole)
Breaking capacity according to UL Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Idfespan Lifespan Operations 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 capacities Terminal capacities Thickness of busbar material Thickness of busbar material KA 5 (UL1077) 5 (UL107) 5 (UL1077) 6 (UL107) 6 (UL10C) 6 (U	Rated voltage according to UL	U_{n}	V AC	480Y/277
Operational switching capacity kA 7.5 Characteristic B, C, D, K, S, Z Max, back-up fuse A gL/gG 125 Selectivity Class Iffespan > 10000 Lifespan Operations > 10000 Direction of incoming supply sa required Mechanical Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 12.5 Mounting 12.5 12.5 Mounting 12.0 12.0 Degree of Protection 12.0 12.0 Terminals top and bottom 12.0 12.0 Terminal protection 12.0 12.0 Terminal reprotection 12.0 12.0 Terminal protection 12.0 12.0 Terminal capacities mm² 1 x 25 mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0 8 2	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Characteristic Max. back-up fuse Selectivity Class lifespan Lifespan Operations Operations Operations Tireminal copacities Terminal capacities Thickness of busbar material Max. back-up fuse Selectivity Class 125 3 125 125 120000 120000 120000 120000 120000 120000 120000 120000 1200000 1200000 12000000 1200000000	Breaking capacity according to UL		kA	5 (UL1077)
Max. back-up fuse Selectivity Class 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 capacities Terminal capacities Thickness of busbar material A gl/g6 25 3 10000 as required 45 mm 80 17.5 18.0	Operational switching capacity		kA	7.5
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 capacities Terminal capacities Thickness of busbar material A part of the standard standard standard material Degree of busbar material A part of the standard standa	Characteristic			B, C, D, K, S, Z
If tespan Lifespan Operations Operations > 100000 as required Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal capacities mm Thickness of busbar material Degree of busbar material	Max. back-up fuse		A gL/gG	125
Lifespan Operations > 10000 Direction of incoming supply as required Mechanical Standard front dimension	Selectivity Class			3
Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminal protection Terminal capacities mm² Thickness of busbar material as required mm 45 mm 80 mm 17.5 mm 17.5 IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals Finger and back-of-hand proof to BGV A2 mm² 1 × 25 mm² 2 × 10 mm 0.8 2	lifespan			
Mechanical Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection IP20, IP40 (when fitted) Terminal protection Terminal protection Finger and back-of-hand proof to BGV A2 Terminal capacities mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Terminal protection IP20, IP40 (when fitted) Terminal protection IP30, IP40 (when fitted) Terminal capacities mm² IP30, IP40 (when fitted) IP40, IP40 (when	Direction of incoming supply			as required
Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection Interminals top and bottom Terminal protection Interminal capacities mm² Thickness of busbar material Interminal Interm	Mechanical			
Mounting width per pole mm 17.5 Mounting 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 mm² 1 x 25 mm² 1 x 25 mm² 0.8 2	Standard front dimension		mm	45
Mounting Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Terminal protection Terminal capacities Terminal capacities Terminal capacities Terminal capacities Terminal capacities Thickness of busbar material Thickness of busbar material Terminal capacities Terminal capacities Thickness of busbar material Terminal capacities Terminal capacities Twin-purpose terminals	Enclosure height		mm	80
Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Terminal protection Terminal capacities Terminal capaci	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal protection Terminal capacities Terminal capacities Terminal capacities Terminal capacities Thickness of busbar material Terminal capacities Thickness of busbar material Terminal capacities Thickness of busbar material Thickness of busbar material Terminal capacities Thickness of busbar material Thick	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Terminal capacities mm² mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities mm ² 1 x 25 mm ² 2 x 10 Thickness of busbar material mm 0.8 2	Terminals top and bottom			Twin-purpose terminals
mm ² 1 x 25 mm ² 2 x 10 Thickness of busbar material mm 0.8 2	Terminal protection			Finger and back-of-hand proof to BGV A2
mm ² 2 x 10 Thickness of busbar material mm 0.8 2	Terminal capacities		mm^2	
Thickness of busbar material mm 0.8 2			mm ²	1 x 25
			mm^2	2 x 10
Mounting position As required	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	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	17.2
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	75
			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

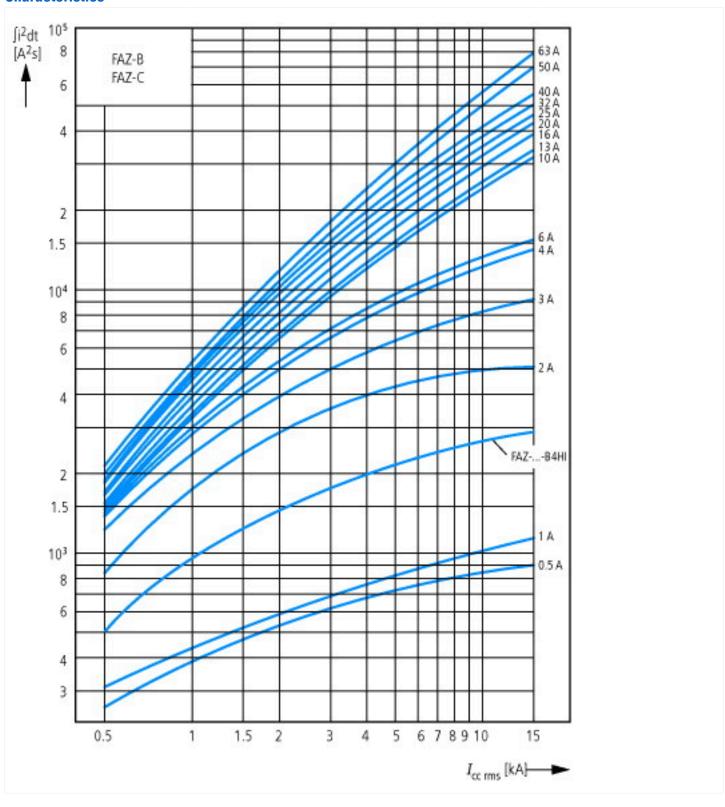
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

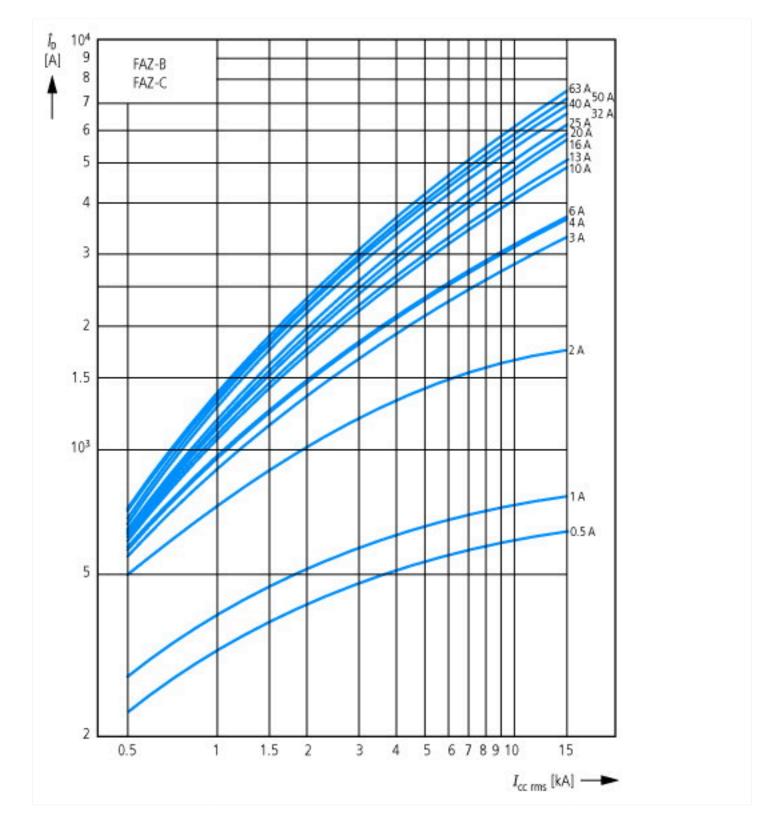
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Release characteristic		В
Number of poles (total)		3
Number of protected poles		3
Rated current	Α	63
Rated voltage	V	400
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	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		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	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

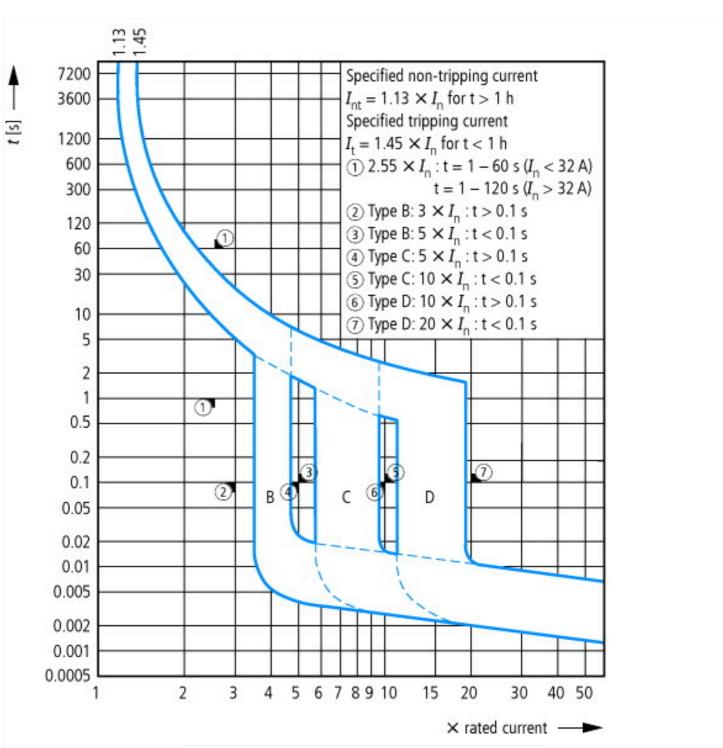
Approvals	
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480Y/277 VAC
Degree of Protection	IEC: IP20; UL/CSA Type: -

Characteristics









Dimensions

