DATASHEET - FAZ-B63/3N



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



Part no. FAZ-B63/3N Catalog No. 278955 Eaton Catalog No. FAZ-B63/3N EL-Nummer 0001691061 (Norway)

Similar to illustration

Technical data

Lifespan Operations > 10000 Direction of incoming supply as required Mechanical mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5	Electrical			
	Standards			
No content No	Rated operational voltage	U _e	V	
Rated voltage according to UL Un V AC 4807/277 Rated switching capacity according to UL Icu KA 15 Operational switching capacity KA 5 (UL1077) Characteristic KA 5, C, D, K, S, Z Max. back-up fuse B, C, D, K, S, Z Selectivity Class B, C, D, K, S, Z Lifespan V V Lifespan V V Direction of incoming supply V V Mechanical V V Standard front dimension M 45 Enclosure height M M 45 Mounting width per pole M M 17.5 Mounting width per pole M M 17.5 Mounting width per pole M M 17.5 Degree of Protection F P P P Terminals top and bottom F P P P P Terminal capacities M M X 2 P		U _e	V AC	240/415
Reted switching capacity acc to IEC/EN 60947-2 Breaking capacity according to UL Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Iffespan Lifespan Operations Operations Operations Operations Frection of incoming supply Mechanical Enclosure height Mounting width per pole Mounting Operations Operations Operations Frection of Protection Terminals top and bottom Terminals cop and bottom 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 Iffespan Operations Immo Operations Operations Operations Operations Operations Immo Operations Operations Operations Operations Immo Operations Operations Operations Immo Operations Operations Immo Operations Immo Operations Immo Operations Immo Operations Immo Incoming supply Operations Immo Operations Incoming supply Incomin	Rated voltage according to UL	Un	V AC	480Y/277
Operational switching capacity kA 7.5 Characteristic B.C.D.K.S.Z Max. back-up fuse A gL/g6 125 Selectivity Class Idespan 10000 Lifespan Operations > 10000 Direction of incoming supply s required Mechanical Mechanical Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting EC/EN 60715 top-hat rail Degree of Protection P20, IP40 (when fitted) Terminals top and bottom Finger and back-of-hand proof to BGV A2 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 Direction of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminal protection Terminal protection Terminal capacities Terminal capacities Thickness of busbar material Mina a B, C, D, K, S, Z 125 125 125 12000 100000 100000 100000 100000 100000 100000 100000 100000 1000000	Breaking capacity according to UL		kA	5 (UL1077)
Max. back-up fuse Selectivity Class Selectivity Class Lifespan Lifespan Operations Tiection of incoming supply Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminal stop and bottom Terminal protection Terminal capacities Thickness of busbar material	Operational switching capacity		kA	7.5
Selectivity Class Iffespan Lifespan 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 Sale Operations Operations Operations Operations Operations Approach	Characteristic			B, C, D, K, S, Z
Lifespan Operations > 10000 Lifespan Operations > 100000 Direction of incoming supply as required Mechanical Standard front dimension	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 Standard front dimension Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal capacities mm² Inickness of busbar material mm² Standard front dimension mm 45 mm 80 mm 17.5 IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Tiwin-purpose terminals Finger and back-of-hand proof to BGV A2 mm² I x 25 mm² I x 2	lifespan			
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 mm² mm² 1 x 25 mm² 2 x 10 Thickness of busbar material mm 0.8 2	Lifespan	Operations		> 10000
Standard front dimension mm 85 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection International	Direction of incoming supply			as required
Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal capacities mm² Inickness of busbar material mm 80 mm 17.5 IEC/EN 60715 top-hat rail IEC/EN	Mechanical			
Mounting width per pole mm 17.5 Mounting lEC/EN 60715 top-hat rail lEC/EN 60715 top-hat rail lP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal protection Finger and back-of-hand proof to BGV A2 Terminal capacities mm² 1x 25 mm² 1x 25 mm² 2x 10 Thickness of busbar material mm 0.8 2	Standard front dimension		mm	45
Mounting Degree of Protection Iteminals top and bottom Terminal protection Terminal capacities Imm² Inickness of busbar material IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) IP40	Enclosure height		mm	80
Degree of Protection Terminals top and bottom Terminal protection Terminal capacities mm² Tix 25 Thickness of busbar material Terminal condition Thickness of busbar material Terminal condition Terminal capacities Tivin-purpose terminals Finger and back-of-hand proof to BGV A2 Tivin-purpose terminals Tivin-	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 Towin-purpose terminals Finger and back-of-hand proof to BGV A2 Terminal capacities Thickness of busbar material Twin-purpose terminals Thickness of busbar material Twin-purpose terminals Towin-purpose terminals Towi	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Terminal capacities Terminal capacities Terminal capacities Terminal capacities Terminal capacities Terminal capacities Thickness of busbar material	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
mm² 1 x 25 mm² 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	17.7
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.

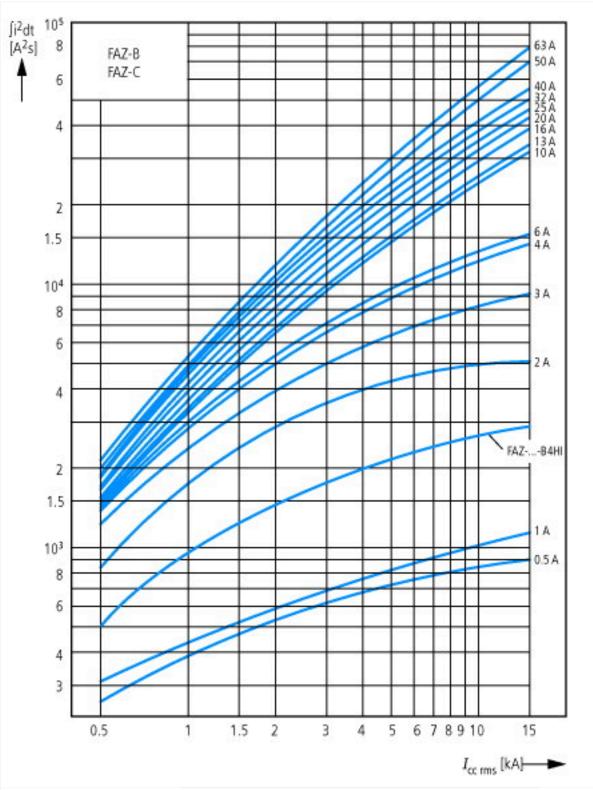
Technical data ETIM 7.0

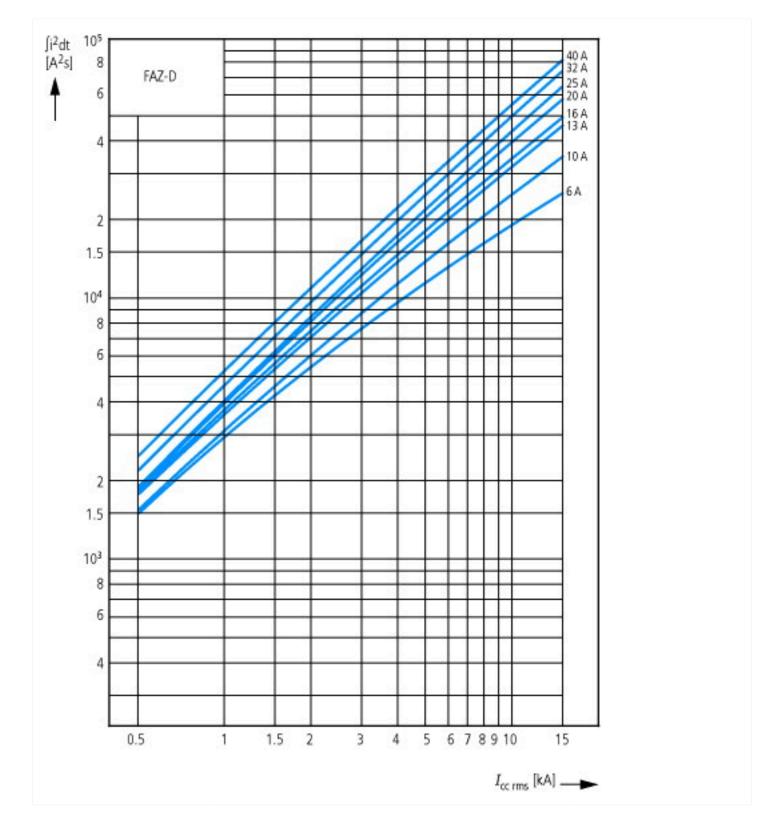
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

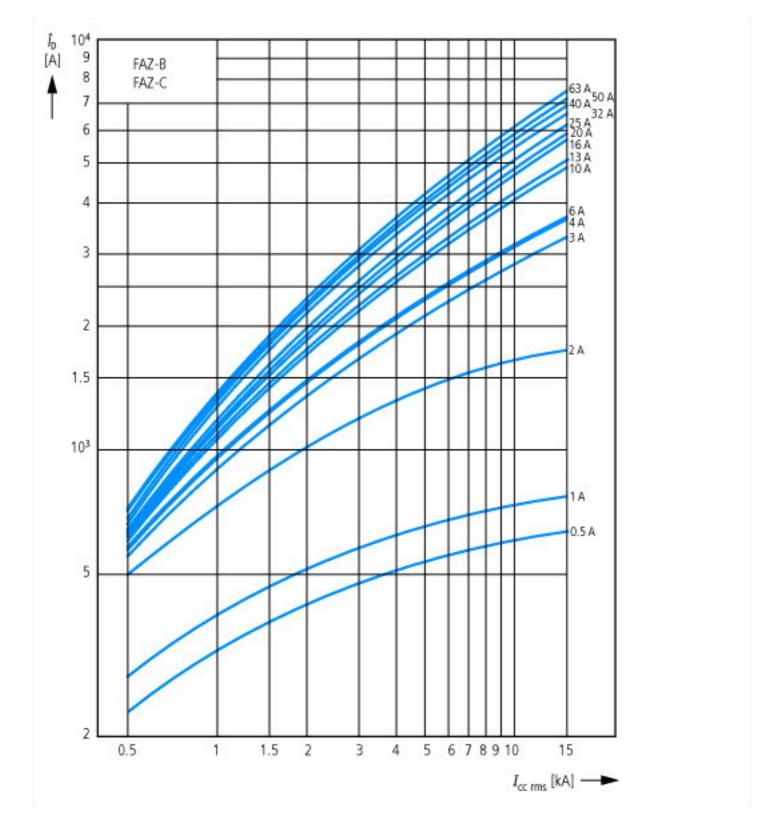
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Release characteristic		В
Number of poles (total)		4
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		Yes
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4
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

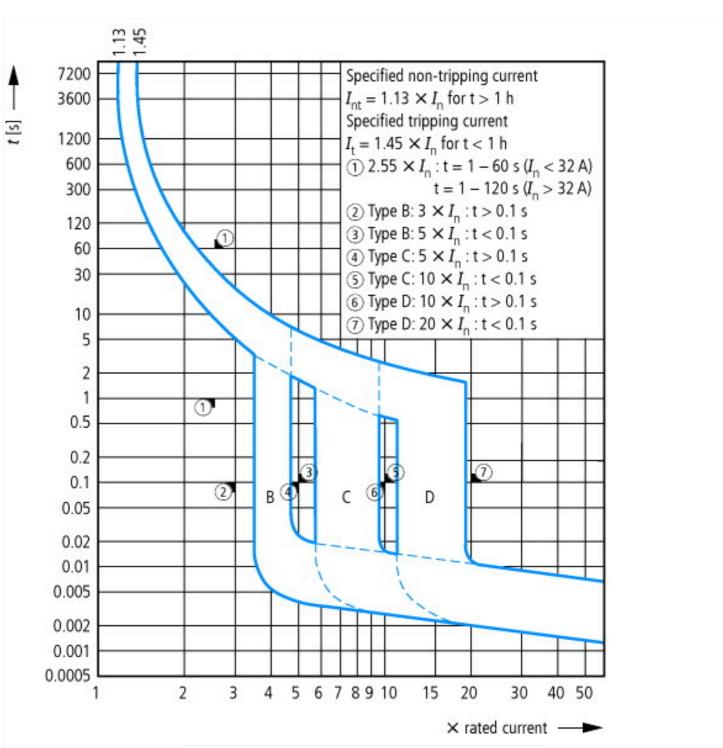
Characteristics











Dimensions

