DATASHEET - FAZ-C63/3

Miniature circuit breaker (MCB), 63 A, 3p, characteristic: C





Part no. FAZ-C63/3 Catalog No. 278879 Alternate Catalog FAZ-C63/3 No. EL-Nummer 1695188 (Norway)

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	63
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
Product range			FAZ

Technical data

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Red operational worksome Vert ECEN MODERSE Red operational worksome Vert Vert Vert Red operational worksome Vert Vert Vert Vert Red operational worksome Vert Vert<	Electrical			
Image: space of the state of	Standards			IEC/EN 60898
Image: second	Rated operational voltage	U _e	V	
Rade values according to ULVnVAC80/277Rede switching capacity acc. to IE/EN 60947-2Ka1Derational switching capacity according to ULKa1/1077Operational switching capacityKa5CharacteristicKa8/200Max. back-up fuseKa8/200Selectivity ClassForemone100IrespanVerture1000Direction of incoming supplyVerture1000Direction of incoming supplyForemone1000Backard fut diremsionForemone1000Bounding with propleForemone1000Direction of incoming supplyForemone1000Direction of incoming supplyForem		Ue	V AC	240/415
Red switching capacity acc utile KP60894-2RuRuRiBeaking capacity acc utile KP60894-2KKKDerational switching capacityKKKDaracteristicKKKKMax back-up fuseKKKKSelectivity ClassKKKKIdegainKKKKIdegainKKKKDirection floction functioningKKKKRechardialKKKKSudderf ford functioningKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKKNothingKKKKK<			V DC	60 (per pole)
Beaking capacity according to UL KI KU1077 Operational switching capacity KI Subscription Characteristic KI Subscription Max. back-up fuse KI Subscription Subscription KI Subscription Iteratoristic KI Subscription Subscription KI Subscription Iteratoristic Subscription Subscription Iteratoristic Subscription Subscription Subscription Subscretoninals Subscription <td>Rated voltage according to UL</td> <td>Un</td> <td>V AC</td> <td>480Y/277</td>	Rated voltage according to UL	Un	V AC	480Y/277
Appendional synchronizationA mathematicationA mathematication<	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	15
CharacteristicKeyKeyKeyKeyMax back-up fuseKeySelectivity ClassSelectivity Cla	Breaking capacity according to UL		kA	5 (UL1077)
As back-up fuse Ag Jog Is an and the second	Operational switching capacity		kA	7.5
Selectivity Class March Jame Jame <td>Characteristic</td> <td></td> <td></td> <td>B, C, D, K, S, Z</td>	Characteristic			B, C, D, K, S, Z
Ideam Instance Instance Instance Instance Direction of incoming supply Operations is required Mechanical Instance is required Standard front dimension Instance Instance Buoting with perple Instance Instance Mounting Instance Instance Digree of Protection Instance Instance Terminal stop and bottom Instance Instance Terminal capacities Instance Instance Instance Instance<	Max. back-up fuse		A gL/gG	125
Lifespan Operations Image: Section of incoming supply Sectin of incoming Sectin of incoming supply	Selectivity Class			3
Direction of incoming supply incoming supply arequired Mechanical Standard front dimension Mm \$ Standard front dimension mm \$ \$ Dicosure height mm \$ \$ \$ Mounting width per pole mm \$	lifespan			
Mechanical mm 5 Standar front dimension mm 6 mm 6 Enclosure height mm 0 15 15 Mounting width per pole Mm 15 16/to Ko715 top-hat rail 16/to Ko715 top-hat rail Degree of Protection Ferni all protection Ferni all protection 16/to Ko715 top-hat rail 16/to Ko715 top-hat rail Terminal protection Ferni all pro	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 15.5 Mounting EC/EN 60715 top-hat rail 100 Degree of Protection FM 120,1P40 (when fitted) Terminal stop and bottom FM 120,1P40 (when fitted) Terminal capacities mm 125 Terminal capacities mm 120,10000000000000000000000000000000000	Direction of incoming supply			as required
Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting IEC/EN 60715 top-hat rail IEC/EN 60715 top-hat rail Degree of Protection FMM 1.62 Terminals top and bottom FMM FMM Terminal capacities FMM FMM Terminal capacities FMM FMM Terminal capacities FMM 1.42 Terminal capacities	Mechanical			
Mounting width per pole Mounting 1.5 Mounting IC/EN 60715 top-hat rail Degree of Protection F00, IP40 (when fitted) Terminal stop and bottom F00, IP40 (when fitted) Terminal capacities man ² Function man ² Interminal capacities man ²	Standard front dimension		mm	45
Mounting Image: Ima	Enclosure height		mm	80
Degree of Protection Image: Base of the sector of the se	Mounting width per pole		mm	17.5
Terminals top and bottom Image: Base of the sector of th	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Image: market of the sector of the s	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities ma ² Imma ²	Terminals top and bottom			Twin-purpose terminals
Image: marge state stat	Terminal protection			Finger and back-of-hand proof to BGV A2
Imm ² 2 × 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
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А

63

I_n

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

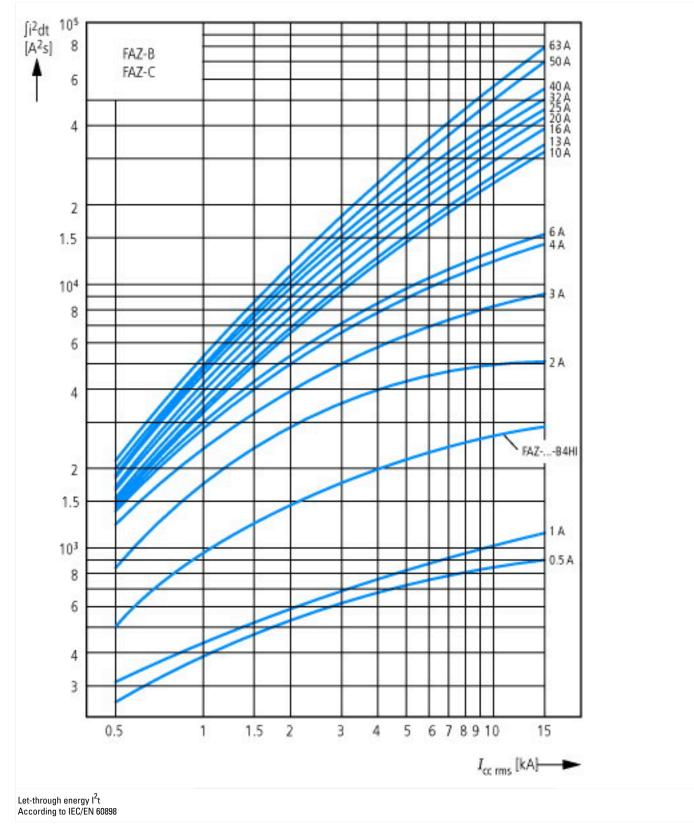
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

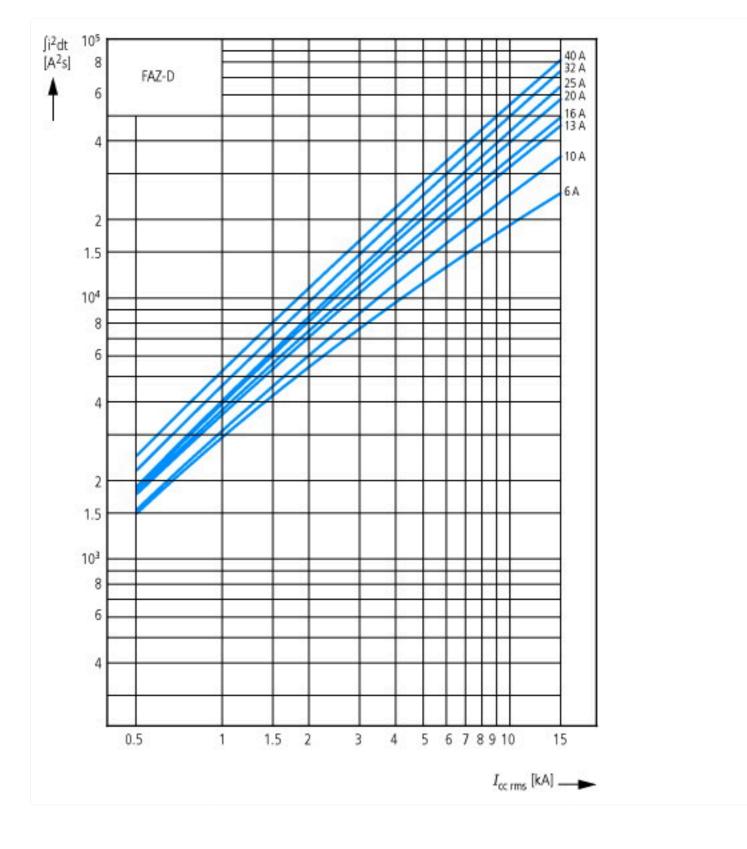
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic		С
Number of poles (total)		3
Number of protected poles		3
Rated current	А	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	mm ²	1 - 25
Connectable conductor cross section solid-core	mm ²	1 - 25

Characteristics



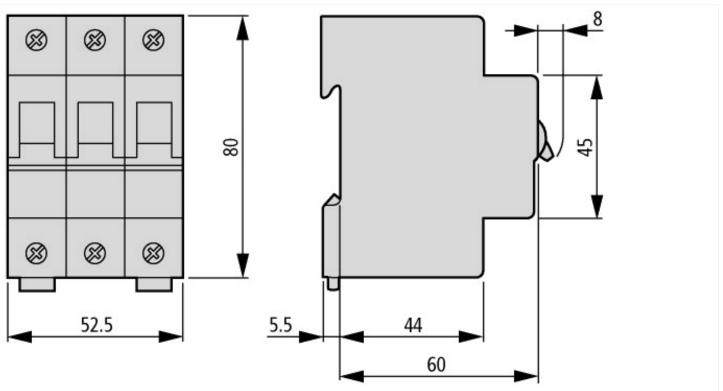








Dimensions



Additional product information (links)

Temperature dependency, derating

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