DATASHEET - FAZ-C63/1N

Part no. Catalog No.

EL-Nummer

(Norway)

No.

Alternate Catalog



Miniature circuit breaker (MCB), 63 A, 1p+N, characteristic: C

FAZ-C63/1N

FAZ-C63/1N

278680

1666763



Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			1 pole+N
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

Read operational voltage U EXCENT RESERPTION Read operational voltage U V Read voltage according to UL U V Store protection Read voltage according to UL U V V Read voltage according to UL U V Store protection Read voltage according to UL U V V Read voltage according to UL U V Store protection Read voltage according to UL U V V Store protection Read voltage according to UL U V V Store protection Read voltage according to UL U V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V V Store protection Read voltage according to UL V Store protection <th>Electrical</th> <th></th> <th></th> <th></th>	Electrical			
Image: set of the	Standards			
Image: second	Rated operational voltage	U _e	V	
Rad voltage according to ULVnVACVACProduct of the State o		Ue	V AC	240/415
Red switching capacity accurding to ULFundFundSelectionOperational switching capacityKKSint ConstraintsOperational switching capacityKKSint ConstraintsMax. back-up fuseKKSint ConstraintsSelectivity ClassKKSint ConstraintsInfespanKKSint ConstraintsDirection of incoming supplyKSint ConstraintsSelectivity ClassKKSint ConstraintsSelectivity ClassKKSint ConstraintsInfespanKKSint ConstraintsSelection of incoming supplyKSint ConstraintsSelectivity ClassKKSint ConstraintsSelectivity ClassKKSint ConstraintsSelection of incoming supplyKKSint ConstraintsSelection of incoming supplyKK </td <td></td> <td></td> <td>V DC</td> <td>60 (per pole)</td>			V DC	60 (per pole)
Parking capacity according to UL I IU1077 Operational switching capacity I IC Characteristic I IC IC Max. back-up fuse I IC IC Selectivity Class I IC IC Ifespan IC IC IC IC Direction fincoming supply IC IC IC IC Selectivity Class IC	Rated voltage according to UL	Un	V AC	277
Qperational switching capacityKaKaSCharacteristic6, D, K, S, ZMax. back-up fuse4 gU/g5Selectivity Class93Lifespan0a requiredDrection of incoming supply0a requiredMacharical13Marcharical13Selectivity Class13Bardard front dimension13Bandard front dimension13Mounting width per pole13Mounting width per pole11Bardinal protection11Terminal protection11Terminal protection11Terminal capacities11Immain and bottom11Ferninal capacities11Terminal capacities11Term	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Characteristic 6, 0, K, S, Z Max. back-up fuse 6, 0, K, S, Z Max. back-up fuse 5 Selectivity Class 7 Lifespan Operations Direction of incoming supply 7 Machard from dimension man Selectivity Class man Mounting width per pole man Mounting man Operation man Terminal stop and bottom man Terminal protection man Terminal protection man Terminal conduction man Terminal conducti	Breaking capacity according to UL		kA	5 (UL1077)
Max back-up fuse Max fuse <	Operational switching capacity		kA	7.5
Selectivity ClassImage: Selectivity Class	Characteristic			B, C, D, K, S, Z
Idespan Mark Idespan Mark Mark Lifespan Operations > 1000 as required Machanical Mark as required as required Stadard front dimension Mark Mark Mark Mounting width perpole Mark Mark Mark Mounting Mark Mark Mark Terminals top and bottom Mark Mark Mark Terminal capacities Mark Mark Mark Interminal capacities	Max. back-up fuse		A gL/gG	125
LifespanOperations> > > > > > > > > > > > > > > > > > >	Selectivity Class			3
Direction of incoming supply Image Image <th< td=""><td>lifespan</td><td></td><td></td><td></td></th<>	lifespan			
Mechanical mm 5 Standard front dimension mm 6 mm 6 Enclosure height mm 10 10 10 Mounting width per pole mm 15 10 </td <td>Lifespan</td> <td>Operations</td> <td></td> <td>> 10000</td>	Lifespan	Operations		> 10000
Standard front dimension Imm \$4 Enclosure height Imm 80 Mounting width per pole Imm 7.5 Mounting Imm IEC/EN 60715 top-hat rail Degree of Protection Imm Imm Terminals top and bottom Imm Imme Terminal capacities Imme Imme Terminal capacities	Direction of incoming supply			as required
Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting EC/EN 60715 top-hat rail EC/EN 60715 top-hat rail Degree of Protection FM 120/LP40 (when fitted) Terminal stop and bottom FM 120/LP40 (when fitted) Terminal capacities FM 120/LP40 (when fitted) Terminal capacities FM 120/LP40 (when fitted) Interminal capacities FM FM 120/LP40 (when fitted) Interminal capacities FM FM FM Interminal capacities	Mechanical			
Mounting width per pole mm 1.5 Mounting FL FL FL Degree of Protection FL FL FL Terminals top and bottom FL FL FL FL Terminal protection FL	Standard front dimension		mm	45
Mounting EC/EN 60715 top-hat rail Degree of Protection F20, IP40 (when fitted) Terminals top and bottom File Terminal protection File Terminal capacities File Immediate File Immediate </td <td>Enclosure height</td> <td></td> <td>mm</td> <td>80</td>	Enclosure height		mm	80
Degree of Protection P20, 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 Interminal capacities 1x 25 Terminal capacities mm ² Terminal capacities 1x 25 Terminal capacities mm ² Terminal capacities mm ²	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal protection Terminal protection Terminal protection Finger and back-of-hand proof to BGV A2 Terminal capacities ma ² Ima ² Im	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Image: I	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities mm ² Imm ² 1×25 Imm ² 2×10 Imm ² 1×25 Imm ² 1×25 Imm ² 1×25 Imm ² 1×10 Imm ² 1×10 Imm ² 1×10	Terminals top and bottom			Twin-purpose terminals
Image: marge state stat State state stat	Terminal protection			Finger and back-of-hand proof to BGV A2
Imm <td>Terminal capacities</td> <td></td> <td>mm²</td> <td></td>	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	А	63

Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	6.3
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

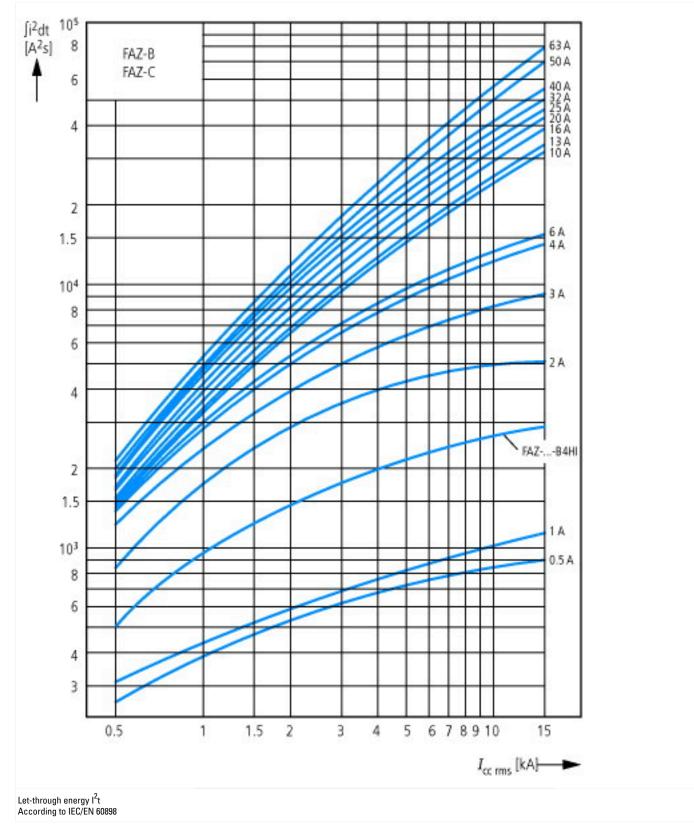
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

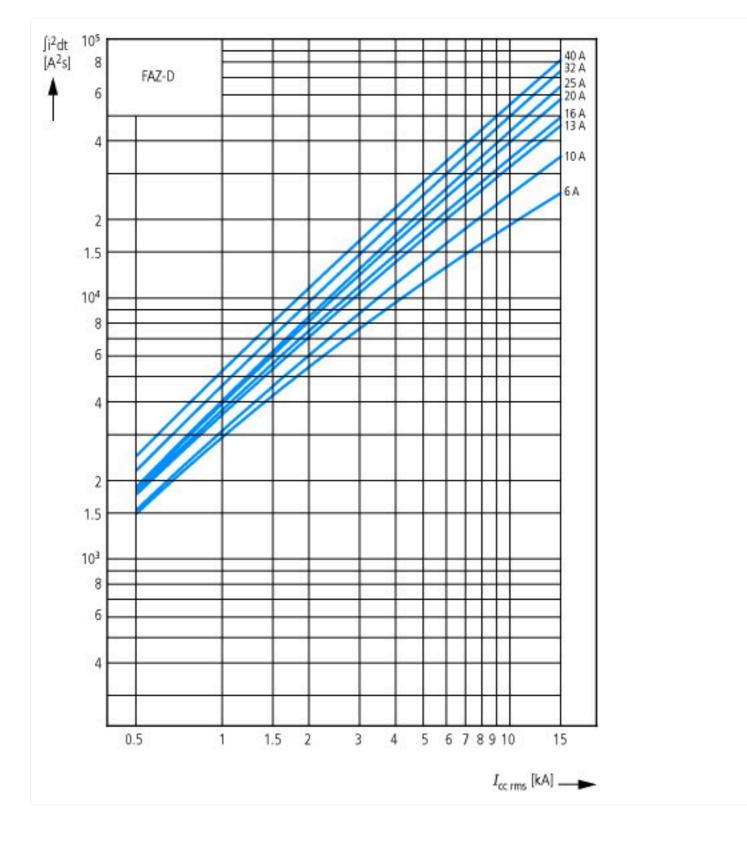
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic		С
Number of poles (total)		2
Number of protected poles		1
Rated current	А	A 63
Rated voltage	V	/ 230
Rated insulation voltage Ui	V	/ 440
Rated impulse withstand voltage Uimp	kV	<v 4<="" td=""></v>
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	KA 10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	KA 10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	KA 15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	KA 15
Voltage type		AC
Frequency	Hz	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		2
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



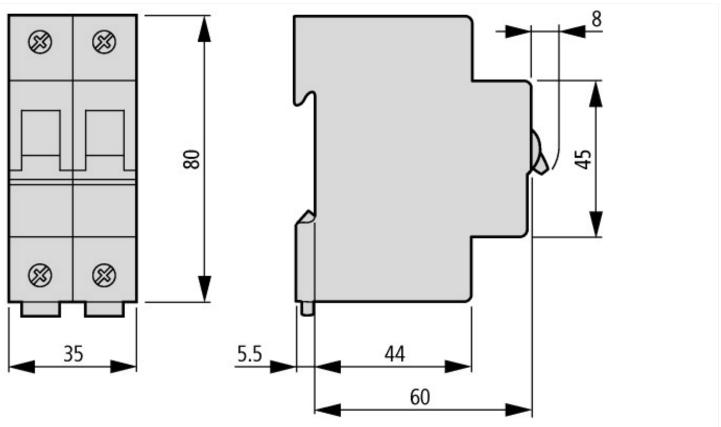








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker Temperature dependency, derating https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf

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