DATASHEET - FAZ-B63/1

Miniature circuit breaker (MCB), 63A, 1p, B-Char, AC





Part no.FAZ-B63/1Catalog No.278541Alternate CatalogFAZ-B63/1No.EL-Nummer(Norway)0001695109

Similar to illustration

Delivery program

		Miniature circuit-breakers
		1 pole
		В
		Switchgear for industrial and advanced commercial applications
l _n	А	63
l _{cu}	kA	15
		FAZ

Technical data

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Image: second	Standards			
Image: second	Rated operational voltage	U _e	V	
Red voltage according to UL Vac VAC 74 Red solutiching capacity acc to IEC/EN 60947-2 Icon 50 5000000000000000000000000000000000000		U _e	V AC	240/415
Red switching capacity acc ording to UPuPuPuPuDeckading capacity according to UKMKIU1077Operational switching capacityKMSCharactaristicKMSMax back-up fuseKMSSelectivity ClassKMSIfespanVerterVerterDechanceVerterVerterBrachant continueVerterVerterSelectivity ClassVerterVerterIndepandementVerterVerterDechanceVerterVerterSelectivity ClassVerterVerterIndepandementVerterVerterSelectivity ClassVerterVerterIndepandementVerterVerterSelectivity ClassVerterVerterIndepandementVerterVerterSelectivity ClassVerterVerterIndepandementVerterVerterSelectivity ClassMmSSelectivity ClassVerterVerterSelectivity ClassMmSSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerterSelectivity ClassVerterVerter <tr< td=""><td></td><td></td><td>V DC</td><td>60 (per pole)</td></tr<>			V DC	60 (per pole)
Reaking capacity according to UL I IU1077 Operational switching capacity I ID107 Characteristic ID ID ID Max. back-up fuse ID ID ID Selectivity Class ID ID ID Idespan ID ID ID Date characteristic ID ID ID Idespan ID ID ID Breatonal functioning supply	Rated voltage according to UL	Un	V AC	277
AAACharateristicBBBCharateristicBBBMax backup fussBBBSelectivity ClassBBBIfespanDeretionsBBDeretion of incoming supplyDeretionsBBBradard front dimensionBFBRouting width per poleFBBMountingFMBBrenda of DeretionsFMBIntensionFMBBrenda for dimensionFMBMounting width per poleFMBMountingFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMBIntension CalconFMMIntension CalconFMBIntension CalconMMMIntension CalconMMMIntension CalconMMMIntension CalconMMMIntension CalconMMMIntension CalconMMM <td>Rated switching capacity acc. to IEC/EN 60947-2</td> <td>I_{cu}</td> <td>kA</td> <td>15</td>	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Characteristic 6,0, K, S, Z Max back-up fuse 5,0, K, S, Z Max back-up fuse 5,0, K, S, Z Selectivity Class 3 Ifespan 0 Interport - Interport - Markathan - Interport - Selectivity Class - Interport - Interport - Markathan - Selectivity Class - Interport - Selectivity Class - Interport - Selectivity Class - <td< td=""><td>Breaking capacity according to UL</td><td></td><td>kA</td><td>5 (UL1077)</td></td<>	Breaking capacity according to UL		kA	5 (UL1077)
Agled Agled <th< td=""><td>Operational switching capacity</td><td></td><td>kA</td><td>7.5</td></th<>	Operational switching capacity		kA	7.5
Selectivity ClassIIIIdespanOperations>>>IdespanOperations>>>>Direction of incoming supply>>>>Mechanical>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> <td>Characteristic</td> <td></td> <td></td> <td>B, C, D, K, S, Z</td>	Characteristic			B, C, D, K, S, Z
Idespan Mark	Max. back-up fuse		A gL/gG	125
LifespanOperations> 1000Direction of incoming supplyas requiredMechanicalXendraf front dimensionMm§Andurd front dimensionMm§Mounting width per poleMm0MountingMm1.5Degree of ProtectionMmIC/KN 60715 top-hat railTerminals top and bottomMmIC/KN 60715 top-hat railTerminal raprotectionMmIC/KN 60715 top-hat railTerminal capacitiesMmIC/KN 60715 top-hat railTerminal capac	Selectivity Class			3
Direction of incoming supply Image: Required Mechanical Standard front dimension mm \$ Enclosure height mm \$ Mounting width per pole mm 1.5 Mounting Form 1.6(N 60715 top-hat rail Degree of Protection Form 1.6(N 60715 top-hat rail Terminals top and bottom Form 1.6(N 60715 top-hat rail Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities Form 1.6(N 60715 top-hat pool for BGV A2 Terminal capacities	lifespan			
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Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 15.5 Mounting EC/EN 60715 top-hat rail EC/EN 60715 top-hat rail Degree of Protection Feed Feed Feed (when fitted) Terminal stop and bottom Feed Feed (when fitted) Feed (when fitted) Terminal capacities Feed Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted) Feed (when fitted) Interminal capacities Feed (when fitted) Feed (when fitted)<				as required
Enclosure heightmmØMounting width per polemm1.5.MountingIEC/EN 60715 top-hat railDegree of ProtectionFM120. [P0, IP40 (when fitted)]Terminals top and bottomFMTwin-purpose terminalsTerminal capacitiesmm²1.25.Terminal capacitiesmm²1				
Mounting width per pole man 1.5 Mounting IC/EN 60715 top-hat rail Degree of Protection F20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities man ² Interminal capacities man ² Terminal capacities man ²			mm	45
Mounting IC/EN 60715 top-hat rail Degree of Protection I20, IP40 (when fitted) Terminals top and bottom Image:	Enclosure height		mm	80
Degree of Protection P20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal protection Finder and back-of-hand proof to BGV A2 Terminal capacities mm² Income mm²	Mounting width per pole		mm	17.5
Terminals top and bottom Twin-purpose terminals Terminal protection Finger and back-of-hand proof to BGV A2 Terminal capacities ma ² Image: A state of the state of	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Finger and back-of-hand proof to BGV A2 Terminal capacities mm ² Imme 1×25 Imme 2×10 Imme Imme Imme Imme Imme 2×10 Imme Imme Imme Imme Imme Imme Imme Imme Imme Imme	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities nm ² Imm ² 1 × 25 Imm ² 2 × 10 Imm ² 1 mm ²	Terminals top and bottom			Twin-purpose terminals
Image: Section of the section of t	Terminal protection			Finger and back-of-hand proof to BGV A2
Imm Imm Imm Thickness of busbar material Imm 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	l _n	А	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	w	5.2
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
and a second			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
EC/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]) В Release characteristic Number of poles (total) 1 Number of protected poles 1 Rated current А 63 Rated voltage ٧ 230 ٧ 440 Rated insulation voltage Ui 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 AC Voltage type Frequency Hz 50 - 60

Current limiting class

Suitable for flush-mounted installation

3

No

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	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

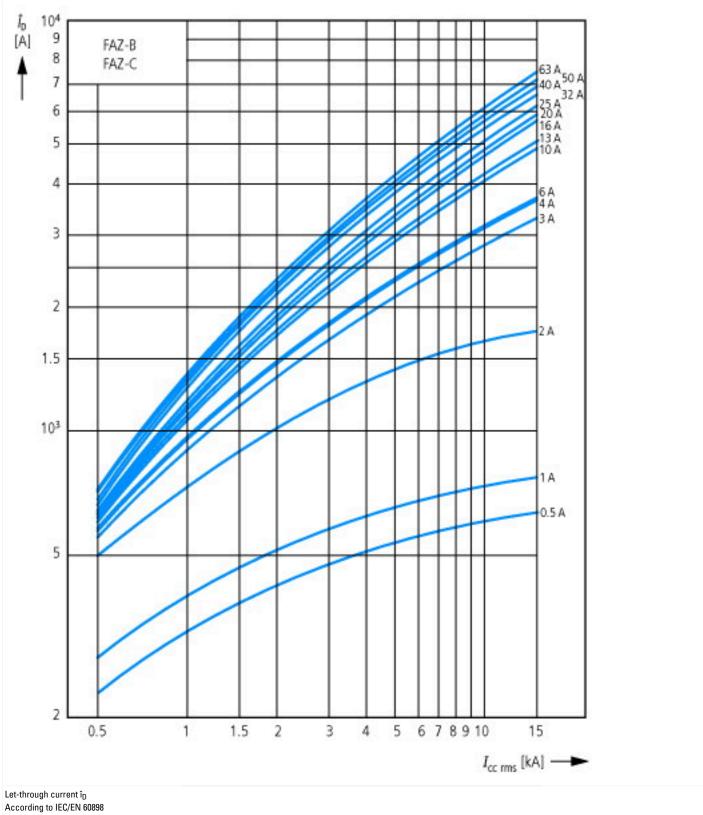
Approvals

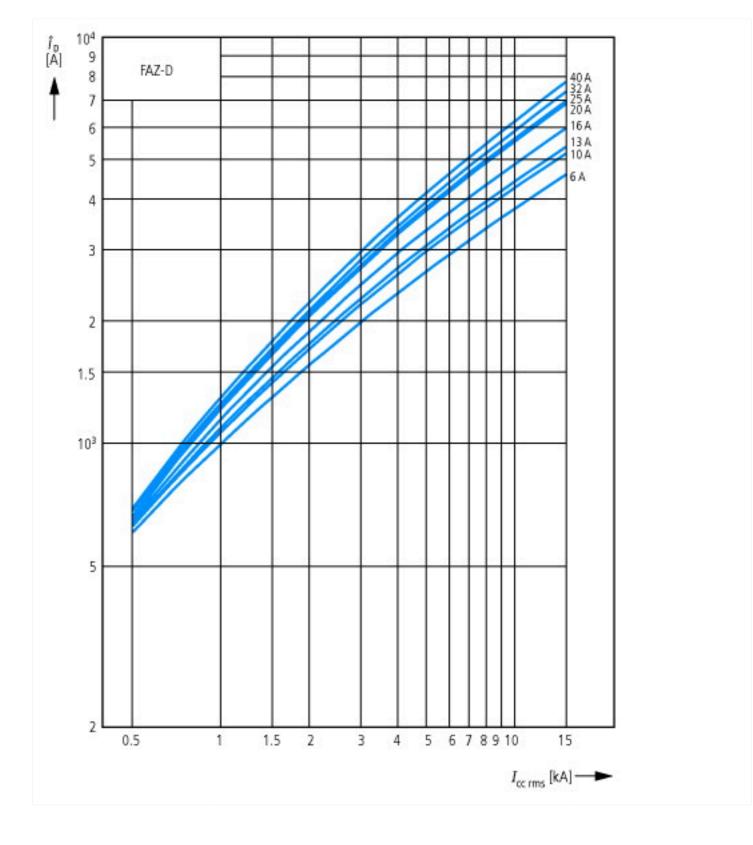
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Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions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

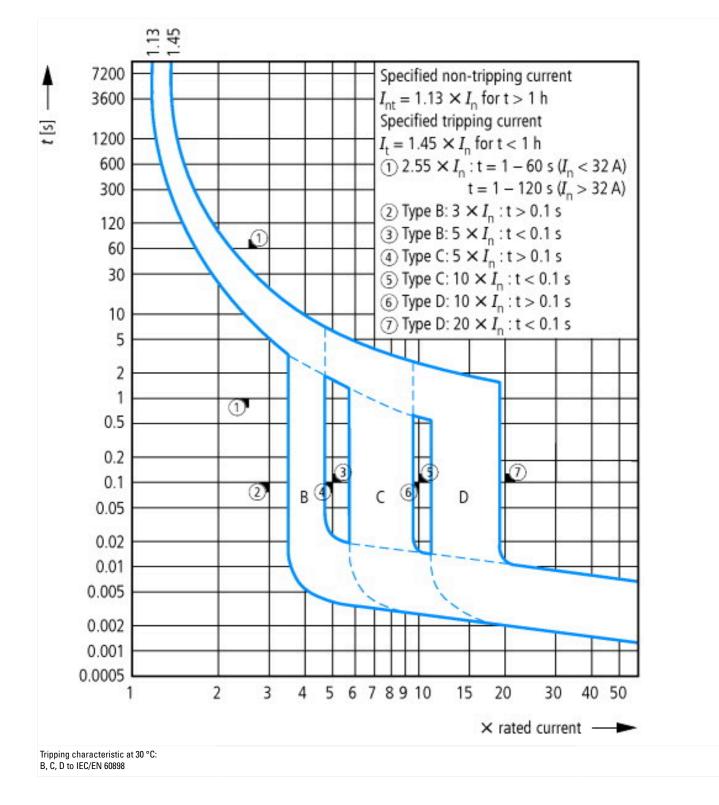
Characteristics



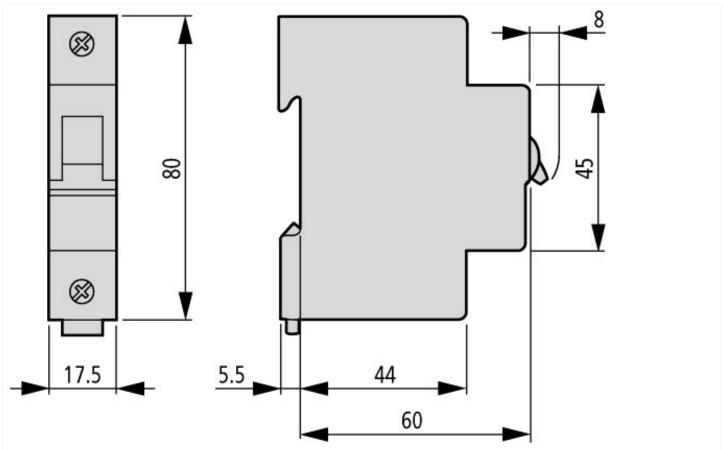








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf

Temperature dependency, derating

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