DATASHEET - FAZ-Z8/3

Miniature circuit breaker (MCB), 8 A, 3p, characteristic: Z



FAZ-Z8/3
278925
FAZ-Z8/3
0001695284

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			Z
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	8
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Product range			FAZ

Technical data

Rada operational voltageUnitUnitUnitUnitRada operational voltageUnitVolt40405Rada operational voltage can be for the for th	Electrical			
Image: state s	Standards			
VDC0 0<	Rated operational voltage	U _e	V	
Rated switching capacity act. to EC/EN 60947-2Fund <th< td=""><td></td><td>U_e</td><td>V AC</td><td>240/415</td></th<>		U _e	V AC	240/415
Operational switching capacity KA 5 Characteristic 6,0,K,S,Z Max. back-up fuse 484/09 Selectivity Class AgU/09 Lifespan Operational Direction of incoming supply Fee Maxdard front dimension Fee Belosure height Image: Selectivity Classical and Selectivity Classical			V DC	60 (per pole)
Characteristic B	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Max.back-up fuse Agl/g6 25 Selectivity Class Perform 25 Lifespan Operations 7 Lifespan serquired serquired Max.back-up fuse serquired serquired Mechanical mm 5 Standard fond dimension mm 5 Standard fond dimension mm 5 Mounting width per pole mm 15 Mounting mm 15 Digree of Protection mm 15 Terminal stop and bottom mm 15 Terminal capacities mm 12 Terminal capacities mm 12 <t< td=""><td>Operational switching capacity</td><td></td><td>kA</td><td>7.5</td></t<>	Operational switching capacity		kA	7.5
Selectivity Class Parations Parations Parations 10000 Iréspan Operations se required Direction of incoming supply se required Mechanical main 8 Enclosure height main 8 Nounting width per pole main 1000 Direction of incoming supply parations 1000 Montring width per pole main 8 Degree of Protection main 125 Terminal sop and bottom main 126/LPM (when fitted) Terminal capacities main 1x25 Terminal capacities main 1x26 Terminal capacities main 1x26 Thickness of busbar material main 1x26	Characteristic			B, C, D, K, S, Z
Idespan Perations Idespan > 10000 Direction of incoming supply se required se required Mechanical Idespan Idespan Idespan Standard front dimension Idespan Idespan Idespan Bounting width per pole Idespan Idespan Idespan Mounting width per pole Idespan Idespan Idespan Digree of Protection Idespan Idespan Idespan Terminal stop and bottom Idespan Idespan Idespan Terminal capacities Idespan Idespan Idespan Idespan Idespan Id	Max. back-up fuse		A gL/gG	125
Lifespan Operations > 1000 Direction of incoming supply a required Mechanical Model Standard front dimension Model Brochsung width per pole Model Mounting width per pole Model Degree of Protection Model Terminal stop and bottom Model Terminal capacities Model Terminal capacities March Terminal capacities March <	Selectivity Class			3
Direction of incoming supply Image Image <th< td=""><td>lifespan</td><td></td><td></td><td></td></th<>	lifespan			
Mechanical mm 45 Standar front dimension mm 6 mm 0 Mounting width per pole mm 7.5 EC/EN 60715 top-hat rail EC/EN 60715 top-hat rail Dogree of Protection FM	Lifespan	Operations		> 10000
Standard front dimensionmm45Enclosure heightmm80Mounting width per polemm155MountingEC/K N60715 top-hat railDegree of ProtectionFMF0, IP40 (when fitted)Terminals top and bottomFMF0, IP40 (when fitted)Terminal protectionFMF0, IP40 (when fitted)Terminal capacitiesMm1 × 25InternationMm1 × 25InternationMm1 × 25Terminal capacitiesMm1 × 25InternationMm1 × 25InternationMmMmInternationMm </td <td>Direction of incoming supply</td> <td></td> <td></td> <td>as required</td>	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 Ferrinals top and bottom Ferrinals IEC/EN 60715 top-hat rail Terminal protection Ferrinal capacities Ferrinal capacities Ferrinal capacities Ferrinal capacities Terminal capacities Ferrinal mm ² 1x25 Terminal capacities Ferrinal 1x25 Terminal capacities Ferrinal 1x25 Terminal capacities Ferrinal 1x25 Terminal capacities Ferrinal 1x25 Terminal capacities Ferrinal capacities Ferrinal capacities Terminal capacities Ferrinal capacities				
Mounting width per pole mm 1.5 Mounting IEC/EN 60715 top-hat rail Degree of Protection IEO, IP40 (when fitted) Terminals top and bottom Imm Twin-purpose terminals Terminal capacities Imm Finger and back-of-hand proof to BGV A2 Terminal capacities Imm Imm			mm	
Mounting EXC/RN 60715 top-hat rail Degree of Protection F00, IP40 (when fitted) Terminals top and bottom F00, IP40 (when fitted) Terminal protection F00, IP40 (when fitted) Terminal capacities F00, IP40 (when fitted) Imman F00, IP40 (when fitted)			mm	
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 mm² Imme 1×25 Imme 1×25 Imme Imme	Mounting width per pole		mm	17.5
Terminals top and bottom Image: Sector S	Mounting			-
Terminal protection Image: market of hand proof to BGV A2 Terminal capacities mm² Image: market of hand proof to BGV A2 mm² Image: market o	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities mm ² Imm ² 1×25 Imm ² 2×10 Imm ² 1	Terminals top and bottom			Twin-purpose terminals
Image: market in the second	Terminal protection			Finger and back-of-hand proof to BGV A2
Imm 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	I _n	A	8
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	10

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])

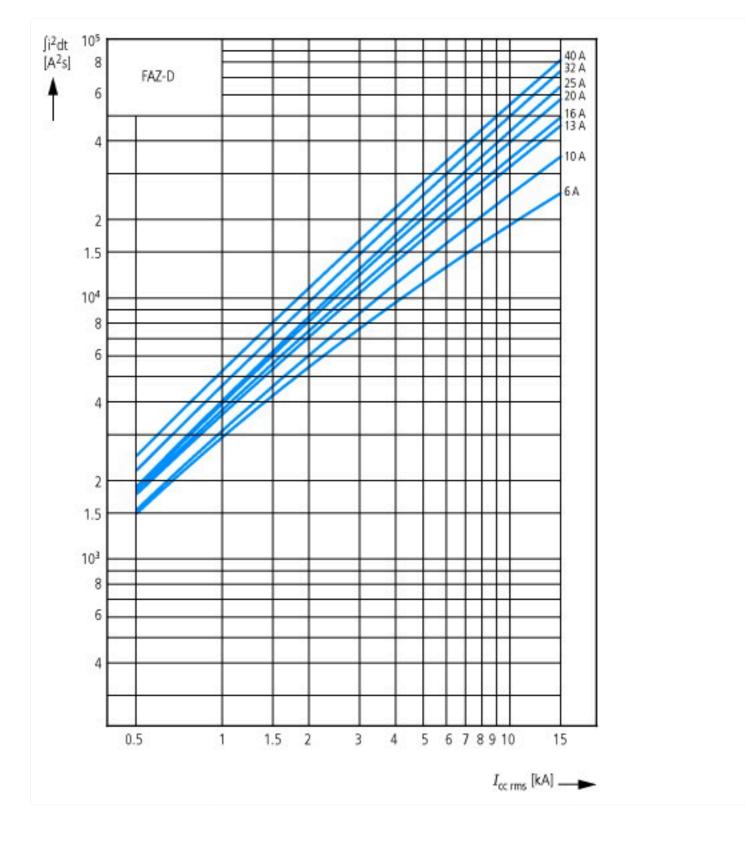
Release characteristic		Z
Number of poles (total)		3
Number of protected poles		3
Rated current	А	8
Rated voltage	V	400
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	10
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: -

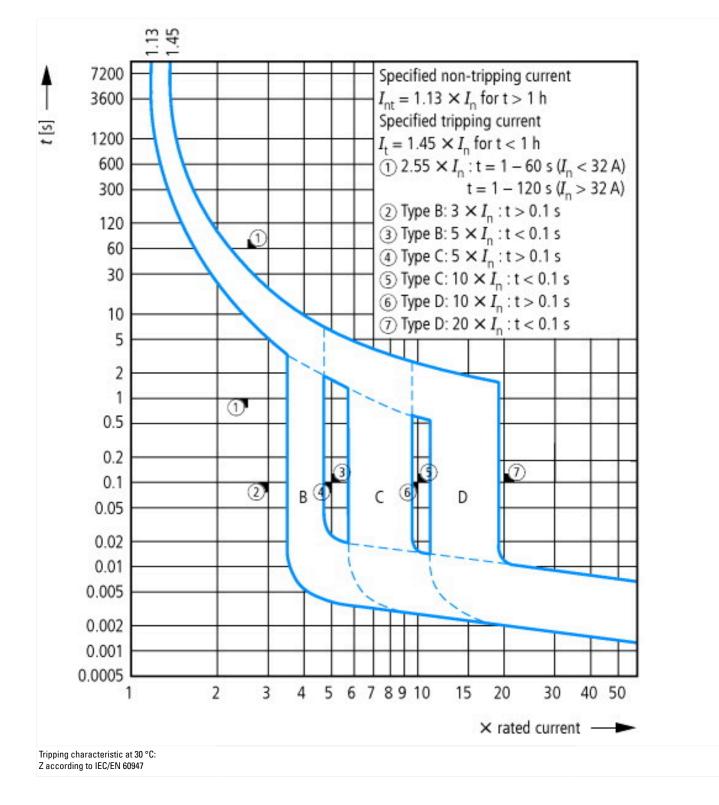
Characteristics



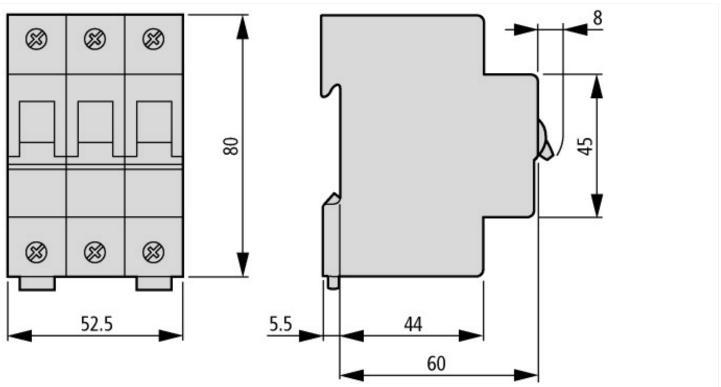








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker	
AWA1220-1755 Circiut-breaker	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf
Temperature dependency, derating	https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf