DATASHEET - FAZ-Z8/4



Miniature circuit breaker (MCB), 8A, 4p, Z-Char, AC



FAZ-Z8/4
279113
FAZ-Z8/4
0001695300

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			4 pole
Tripping characteristic			Z
Application			Switchgear for industrial and advanced commercial applications
Rated current	I _n	А	8
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Product range			FAZ

Technical data

ShardarSee and performed and peri	Electrical			
Image: state of the state of	Standards			
Image: Probability of the section o	Rated operational voltage	Ue	V	
Red switching capacity acc. to IEC/EN 60947-2IIIOperational switching capacityI55CharacteristicI555Max. back-up fuseII55Selectivity ClassIII1IfespanOperationII11Direction fincoming supplyOperationII11Becksore flagIII111Recharded MitteringIIIIIIIBrader fort dimensionIII <td></td> <td>Ue</td> <td>V AC</td> <td>240/415</td>		Ue	V AC	240/415
Operational switching capacity Ka 5 Characteristic 6,0,K,S,Z Max. back-up fuse AgU/03 5 Selectivity Class AgU/03 5 Itespan Perations 5 Detectional supply Fee 3 Machard functioning supply Perations sequired Machard functioning supply Fee 3 Machard functioning supply Perations sequired Machard functioning supply Fee 3 Machard functioning supply Perations Sequired Machard functioning supply Fee Sequired Sequired Mathard functioning supply Fee Sequired Sequired Sequired Mathard functioning supply Fee Sequired Sequired Sequired Sequired Sequired Sequired Sequired Sequired Sequired			V DC	60 (per pole)
CharacteristicRefRefRefRefMax back-up fuseMax back-up fuseSecondSecondSecondSecond Second Secon	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Max. back-up fuse AglyG AglyG Jack and methods Selectivity Class AglyG Jack and methods Jack and methods Lifespan Operation Jointo Jack and methods Jack and methods Direction of incoming supply Operation Jack and methods Jack and methods Jack and methods Selectivity Class Direction of incoming supply Jack and methods Jack and methods Jack and methods Max. back-up better be	Operational switching capacity		kA	7.5
Selectivip Class Selectivip Class<	Characteristic			B, C, D, K, S, Z
Ideam Image: Market State	Max. back-up fuse		A gL/gG	125
Lifespan Operations Image: Section of incoming supply > 1000 Mechanical se quired Standard front dimension Image: Section of incoming supply Section of incoming supply Mounting width per pole Image: Section of incoming supply Section of incoming supply Mounting Image: Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming width per pole Image: Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming supply Image: Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming supply Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming supply Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming supply Section of incoming supply Image: Section of incoming supply Section of incoming supply Section of incoming supply Section of incoming supply Image: Section of inc	Selectivity Class			3
Direction of incoming supply Image: Provide a sequired Mechanical sequired Standard front dimension Image: Provide a sequired Enclosure height mm \$ Mounting width per pole mm \$ Mounting Image: Provide a sequired Image: Provide a sequired Degree of Protection Image: Provide a sequired Image: Provide a sequired Terminals top and bottom Image: Provide a sequired Image: Provide a sequired Terminal capacities Image: Provide a sequired Image: Provide a sequired Image: Provide a sequired a	lifespan			
Mechanical mm 45 Standar front dimension mm 6 mm 6 Inclosure height mm 0 15 15 Mounting width per pole Mm 15 16/to 15/to 1-hat rail 16/to 15/to 1-hat rail Degree of Protection Imm 160/to 15/to 1-hat rail 16/to 15/to 1-hat rail 16/to 15/to 1-hat rail Terminals top and bottom Imm Imm 160/to 15/to 1-hat rail 16/to 15/to 1-hat rail Terminal protection Imm	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting EC/EN 60715 top-hat rail EC/EN 60715 top-hat rail Degree of Protection EC Forminals top and bottom Forminal stop and bottom stop and bottom Forminal stop and bottom stop and bottom Forminal stop and bottom stop and bottom stop and bottom Forminal stop and bottom				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 F00, IP40 (when fitted) IEC/EN 60715 top-hat rail Terminals top and bottom F00, IP40 (when fitted) IEC/EN 60715 top-hat rail Terminal protection F00, IP40 (when fitted) IEC/EN 60715 top-hat rail Terminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 Interminal capacities F00, IP40 (when fitted) IEC/EN 60715 top-hat prof to BGV A2 <tr< td=""><td>Mechanical</td><td></td><td></td><td></td></tr<>	Mechanical			
Mounting width per pole Mounting 1.5 Mounting IC/EN 60715 top-hat rail Degree of Protection F02, IP40 (when fitted) Terminals top and bottom Mounting Terminal capacities Mounting Interminal capacities Mounting <			mm	45
Mounting Image: Book of the second of th	Enclosure height		mm	80
Degree of Protection P20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal protection Twin-purpose terminals Terminal capacities mm ² Income mm ² Terminal capacities mm ² Income mm ² Terminal capacities mm ² Income mm ²	Mounting width per pole		mm	17.5
Terminals top and bottomTeiminal protectionTeiminal protectionTeiminal protectionTeiminal protection BGV A2Terminal capacitiesImma	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 mm ² Imm ² 1x 25 Imm ² 1x 25 Imm ² 2x 10 Imm ² Imm ² Imm ² Imm ² Imm ² Imm ²	Terminals top and bottom			Twin-purpose terminals
Image: Second	Terminal protection			Finger and back-of-hand proof to BGV A2
Image: Section of the section of t	Terminal capacities		mm ²	
Thickness of busbar material mm 0.8 2			mm ²	1 × 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	А	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

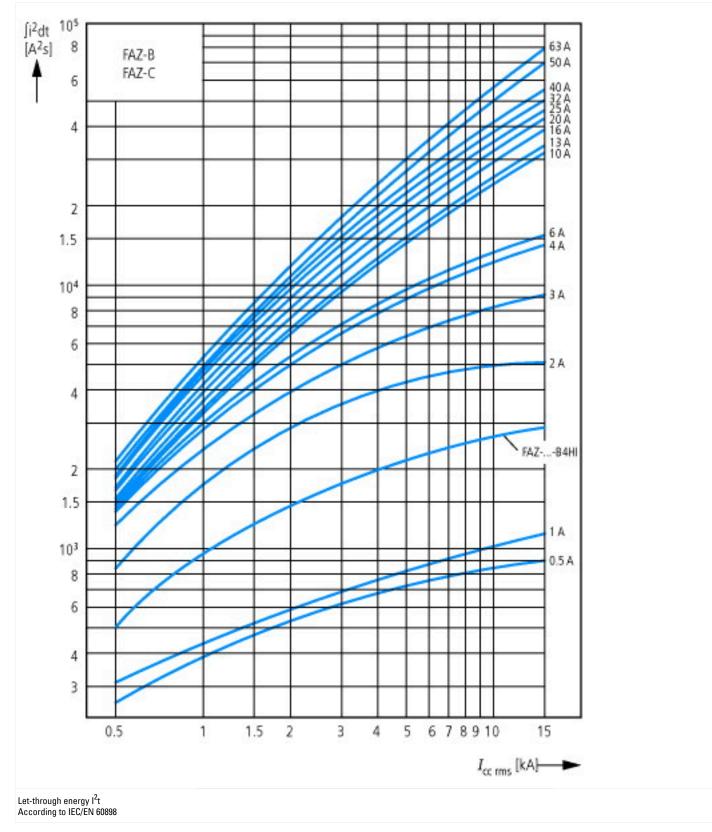
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

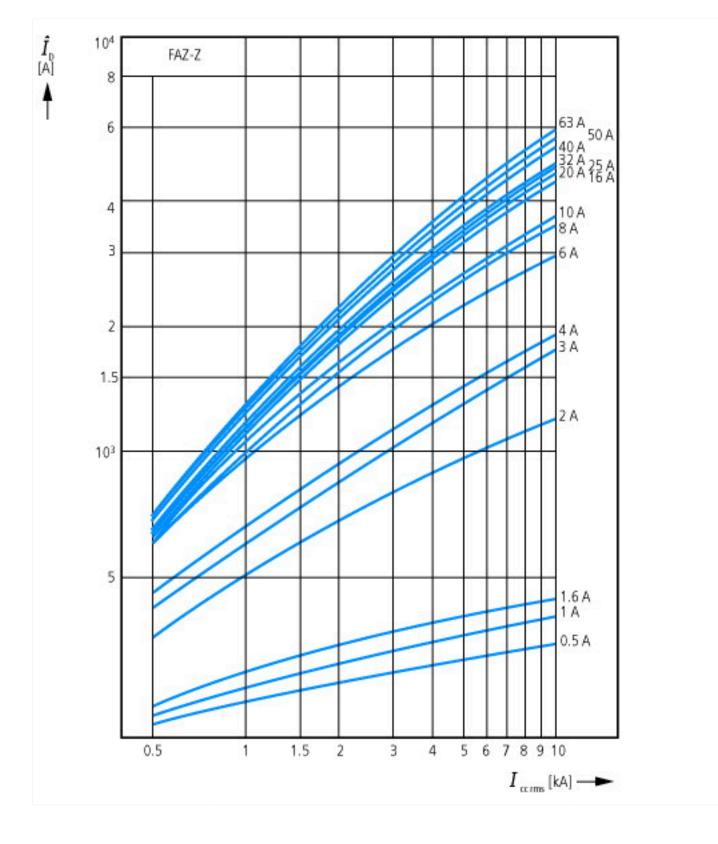
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])
Release characteristic Z

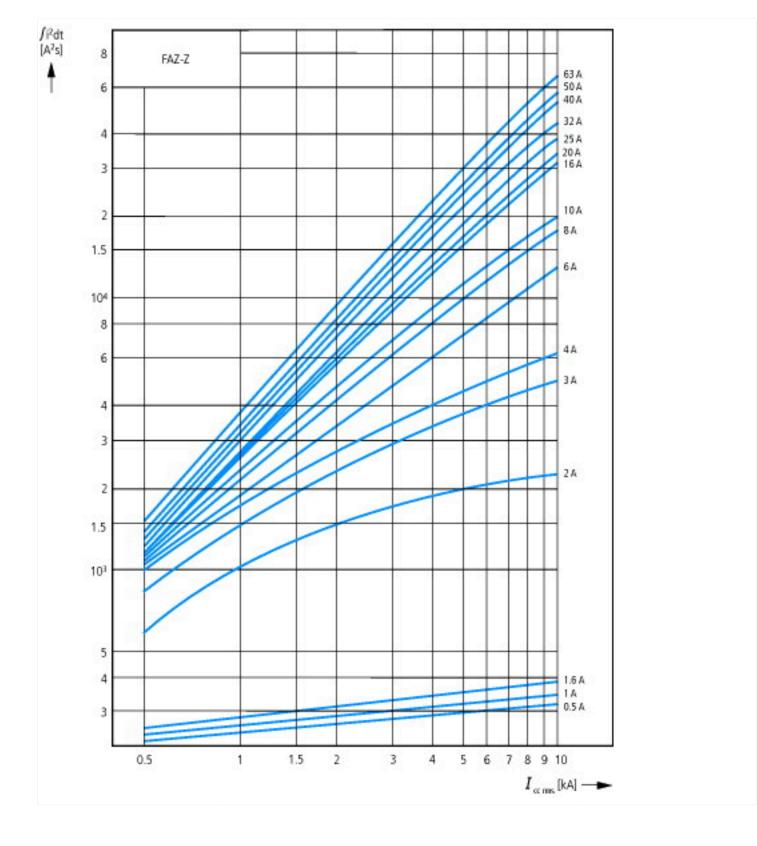
Release characteristic			Z
Number of poles (total)			4
Number of protected poles			4
Rated current	Ļ	A	8
Rated voltage	١	V	400
Rated insulation voltage Ui	١	V	440
Rated impulse withstand voltage Uimp	k	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	k	kA	0
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	k	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	k	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	k	kA	10
Voltage type			AC
Frequency	H	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

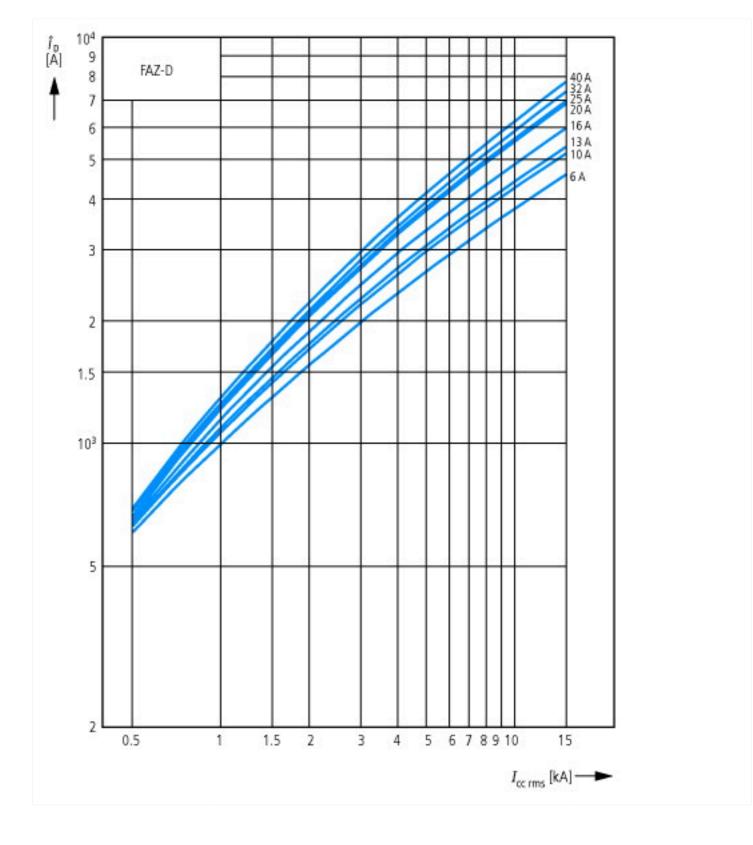
Additional equipment possible		Yes
Width in number of modular spacings		4
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

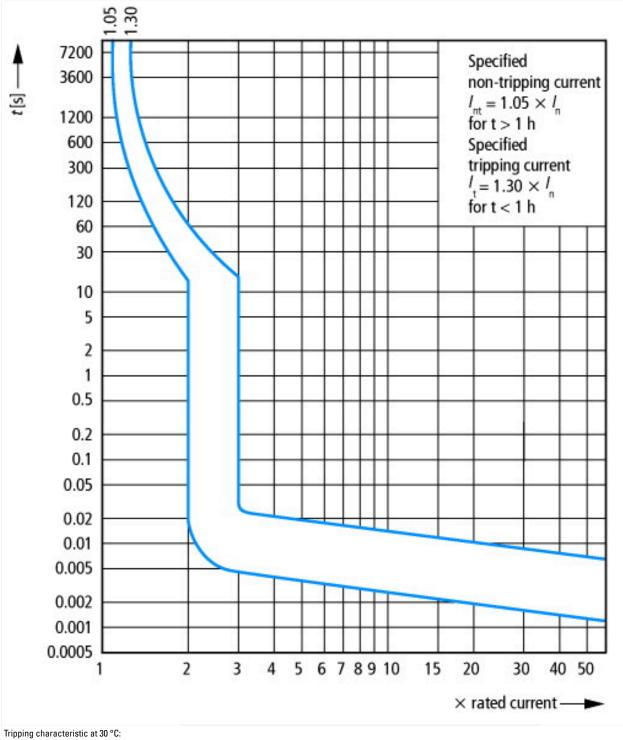
Characteristics





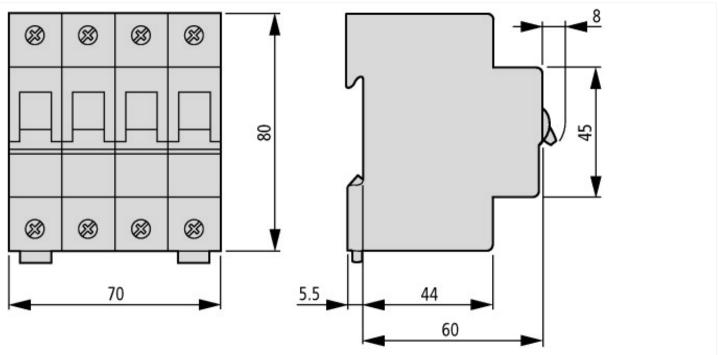






04/10/2020

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