DATASHEET - FAZ-Z40/2

Miniature circuit breaker (MCB), 40 A, 2p, characteristic: Z





Part no.FAZ-Z40/2Catalog No.278829Alternate CatalogFAZ-Z40/2No.EL-NummerO001695274(Norway)

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			2 pole
Tripping characteristic			Z
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	40
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Product range			FAZ

Technical data

And operational workspace Note Field Note Reservation Note Note Note Note Note	Electrical			
No. No. No. No. No. Aud switching capacity act. to Ed/EN 60947-2 Raman Aud Scheman Aug Garan Aud Scheman Aug Garan Aug Gara	Standards			
Number of the sector of the	Rated operational voltage	U _e	V	
Ated switching capacity co. to IEC/EN 60947-2 Fu KA 5 Operational switching capacity KA 5 5 Characteristic KA 6, 0, N, S, Z 5 Sale detivity Class Fu A glyG 5 Sale detivity Class Operational switching capacity Fu 6 Sale detivity Class Operational switching capacity Fu 6 Sale detivity Class Operational switching capacity Fu 6 Sale detivity Class Operational switching capacity Fu 6 6 Sale detivity Class Operational switching capacity Fu 6		Ue	V AC	240/415
Appretional switching capacity Ka S Deractoristic S, D, K, S, Z Aka. back-up fuse AgU g S Selectivity Class AgU g S Ifespan Overations S S Direction of incoming supply Overations S S Acchanical S S S Standard ford dimension Image: S Max S Aduuting with per pole Max S S Aduuting Image: S Max S Aduuting component commons with per pole Max S S Aduuting component commons with per pole Max S S Aduuting component commons with per pole Max S S Aduuting component commons with per pole Max S S S Aduuting component commons with per pole Max S S S S S S S S S S S S S S S S <t< td=""><td></td><td></td><td>V DC</td><td>60 (per pole)</td></t<>			V DC	60 (per pole)
Anarcteristic Image: Selectivity Class Image: Selectivity Class </td <td>Rated switching capacity acc. to IEC/EN 60947-2</td> <td>I_{cu}</td> <td>kA</td> <td>10</td>	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	10
As back-up fuse A gL/g0 125 Selectivity Class A gL/g0 3 Ifespan Oreations > Lifespan Oreations > Direction of incoming supply Image: Selectivity Class > Added front dimension Image: Selectivity Class > Added front dimension Image: Selectivity Class > Addunting width per pole Image: Selectivity Class > Addunting width per pole Image: Selectivity Class > Addunting for the class Image: Selectivity Class > Terminals top and bottom Image: Selectivity Class > Terminal capacities Image: Selectivity Class > Image: Selectivity Class Image:	Operational switching capacity		kA	7.5
Selectivity Class 3 ifespan Operations 10000 Lifespan operations sequired Direction of incoming supply operations sequired Acchanical mm 45 Acchanical mm 1000 Acchanical mm 1000 Adducting width per pole mm 1000 Adounting mm 1000 Acchanical mm 1000 Acchanical mm 1000 Adounting width per pole mm 1000 Adounting mm 1000 Accenting mm 1000 Adounting mm 1000 <td>Characteristic</td> <td></td> <td></td> <td>B, C, D, K, S, Z</td>	Characteristic			B, C, D, K, S, Z
Ifespan Operations > 0000 Lifespan > 0000 as required Direction of incoming supply as required as required Acchanical	Max. back-up fuse		A gL/gG	125
Lifespan Operations > 0000 Direction of incoming supply as required Acchanical sequired Acchanical mm Standard front dimension mm Accounting width per pole mm Mounting Mm Accounting Mm Accounting width per pole mm Accounting width per pole Mm Accounting Freminals top and bottom Ferminal protection Mm Ferminal capacities mm ² Ferminal capacities mm ²	Selectivity Class			3
Direction of incoming supply is required Acchanical required Standard front dimension mm 45 inclosure height mm 80 Mounting width per pole mm 15 Adounting Ferminal stop and bottom Ferminal protection Ferminal protection Ferminal capacities Filler Ferminal capacities Ferminal capacities Ferminal capacities	lifespan			
Acchanical mm 45 Standard front dimension mm 80 inclosure height mm 80 Mounting width per pole mm 15.5 Mounting Ferminals top and bottom Ferminal protection Ferminal capacities mm Immediate Mounting Mm Finger and back-of-hand proof to BGV A2 Immediate mm 1x25	Lifespan	Operations		> 10000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting Ferminals top and bottom Ferminal protection Ferminal capacities mm 100 Mounting Mm 100 Ferminal capacities Mm 100 Mounting Mm 100 Ferminal capacities Mm 100 Mounting Mm 100 Ferminal capacities Mm 100 Ferminal capacities Mm 100	Direction of incoming supply			as required
Inclosure height mm Bol Adunting width per pole mm 1.5 Adunting IEC/EN 60715 top-hat rail Degree of Protection P20, IP40 (when fitted) Terminal protection File Terminal protection mm ² Terminal capacities mm ² Imm 1×25	Mechanical			
Mounting width per pole mm 1.5 Mounting FC/EN 60715 top-hat rail Degree of Protection FC/EN 60715 top-hat rail Ferminals top and bottom FC/EN 60715 top-hat rail Ferminal protection FC/EN 60715 top-hat rail Ferminal capacities FC/EN 60715 top-hat rail Ferminal capacities FC/EN 60715 top-hat rail For mm ² From purpose terminals From Participation FC/EN 60715 top-hat rail From Participation FC/EN 60715 top-hat rail </td <td>Standard front dimension</td> <td></td> <td>mm</td> <td>45</td>	Standard front dimension		mm	45
Mounting Image: Book of the sector of the	Enclosure height		mm	80
Degree of Protection Image: Constraint of the sector of	Mounting width per pole		mm	17.5
Ferminals top and bottom Image: Constraint of the sector	Mounting			IEC/EN 60715 top-hat rail
Ferminal protection Image: Marcel State St	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities mm ² mm ² 1 x 25	Terminals top and bottom			Twin-purpose terminals
mm ² 1 x 25	Terminal protection			Finger and back-of-hand proof to BGV A2
	Terminal capacities		mm ²	
mm ² 2 x 10			mm ²	1 x 25
			mm ²	2 x 10
	Thickness of busbar material		mm	0.8 2
Mounting position As required	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	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	8.9

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])

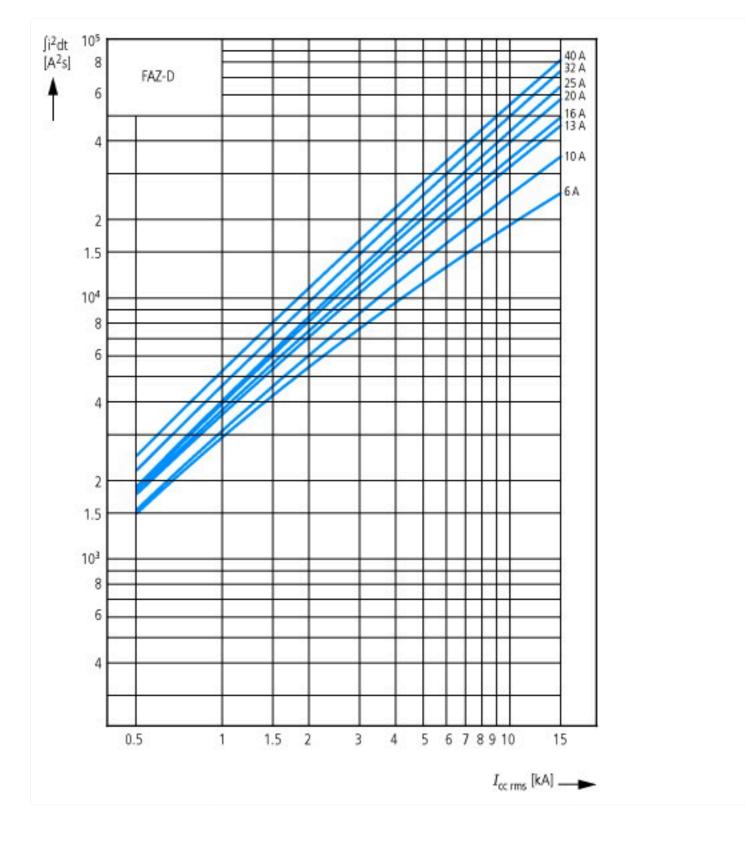
Release characteristic		Z
Number of poles (total)		2
Number of protected poles		2
Rated current	Α	40
Rated voltage	V	400
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity Icn 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

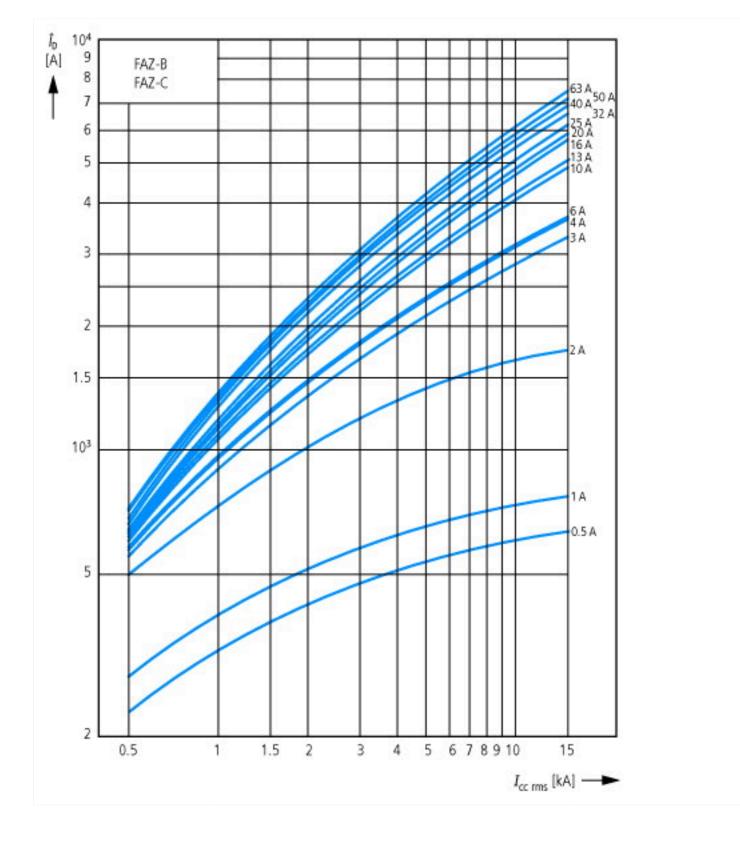
Additional equipment possible		Yes
Width in number of modular spacings		2
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

Approvals Product Standards IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking UL File No. E177451 QVNU2, QVNU8 UL Category Control No. 204453 CSA File No. 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; 96 VDC Degree of Protection IEC: IP20; UL/CSA Type: -

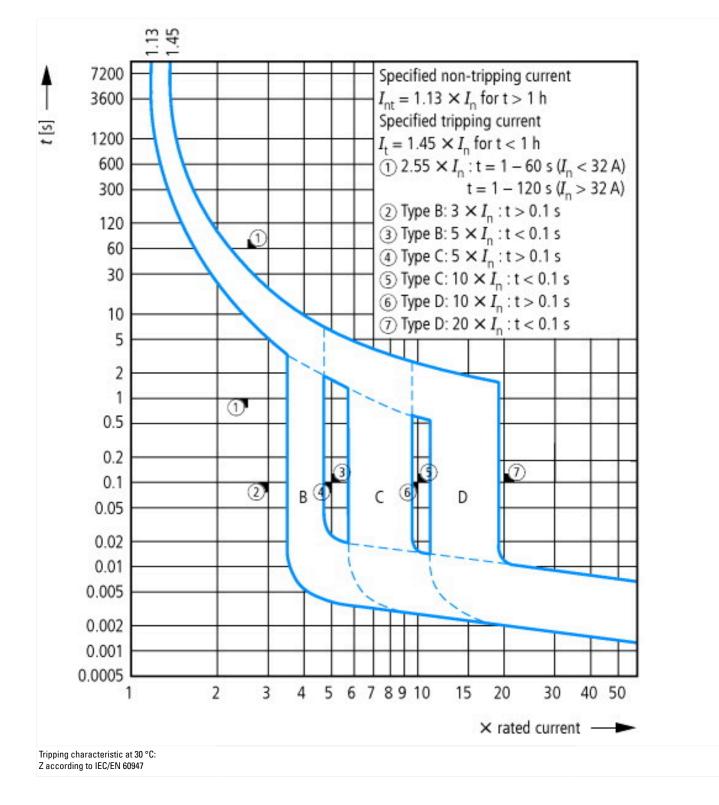
Characteristics



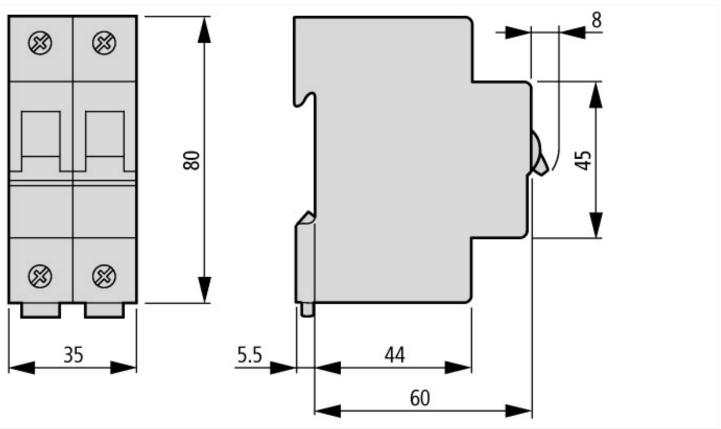








Dimensions



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