DATASHEET - FAZ-Z16/1

Miniature circuit breaker (MCB), 16 A, 1p, characteristic: Z



Part no.	FAZ-Z16/1
Catalog No.	278626
Alternate Catalog	FAZ-Z16/1
No.	
EL-Nummer	1695254
(Norway)	

Similar to illustration

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			Z
Application			Switchgear for industrial and advanced commercial applications
Rated current	I _n	А	16
Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Product range			FAZ

Technical data Electrical

And operational worksigned Note Field Note Lade operational worksigned Vector	Electrical			
Image: section of the section of th	Standards			
kindVDCBige poleAdd switching capacity acc. to EC/EN 60947-20FagKA10Deretational switching capacityKA55.0.K.S.ZAds. back-up fuseFagAgd/G10Ads. back-up fuseFagS3.0.C.S.S.ZAds. back-up fuseFagFag3.000InfersoralForertoressequired1000Adsard functioning supplyForertoressequired1000Adsard functioning functioning functioning supplyForertoresS1000Advanting width per poleForertoresForertores1000Advanting width per poleForertoresForertoresSAdvanting width per poleForertoresForertores1000Advanting width per poleForertoresForertoresForertoresAdvanting width per poleForertoresForertoresForertoresAdvanting functioning forertoring for pole forectionForertoresForertoresAdvanting fore forectioning for pole forectioningForertoresForertoresAdvanting fore forectioning for pole forectioningForertoresAdvanting for pole for po	Rated operational voltage	U _e	V	
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pperaional switching capacity pheraional switching capacity pherai			V DC	60 (per pole)
Aracteristic Image: Selectivity Class Image: Selectivity Class <td>Rated switching capacity acc. to IEC/EN 60947-2</td> <td>l_{cu}</td> <td>kA</td> <td>10</td>	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
As back-up fuse A gL/g 125 Belectivity Class 3 3 fespan Operations 10000 Lifespan Operations 3 sequired Direction of incoming supply Image: Sequired 3 sequired Acchanical Image: Sequired Sequired Sequired Acchanical Sequired Sequire	Operational switching capacity		kA	7.5
Selectivity Class Se	Characteristic			B, C, D, K, S, Z
fespan Poperations Poperations > 00000 Lifespan > 00000 as required Direction of incoming supply as required as required Acchanical mm 45 Accounting width per pole mm 50 Acounting mm 15 Acounting Fered Mathematication Fered Mathematication Pereore of Protection Fered Mathema	Max. back-up fuse		A gL/gG	125
Lifespan Operations > 0000 Direction of incoming supply as required Acchanical sequired Accentical mm Accounting width per pole mm Acounting mm Acounting FCE N60715 top-hat rail Degree of Protection FCE N60715 top-hat rail Perminal protection FCE N60715 top-hat rail reminal stop and bottom FCE N6071 top-hat rail reminal capacities FCE N6071 top-hat rail	Selectivity Class			3
Interced as required Acchanical Imm 45 Standard front dimension mm 60 Acchanical mm 80 Acchanical mm 80 Acchanical mm 80 Acchanical mm 80 Acchanical mm 15 Acchanical Mm 150 Acchanin the	lifespan			
Acchanical mm 45 Standard front dimension mm 45 inclosure height mm 80 Aounting width per pole mm 15.5 Aounting ECEN 60715 top-hat rail Degree of Protection FOR 0001 (Step Pole) Ferminal protection FOR 0001 (Step Pole) Ferminal rotection FOR 0001 (Step Pole) Ferminal capacities For 0001 (Step Pole) Ferminal capacities For 0001 (Step Pole)	Lifespan	Operations		> 10000
Standard front dimension mm 45 Standard front dimension mm 80 Standard front dimension mm 80 Standard front dimension mm 1.5 Aounting width per pole mm 1.5 Aounting EC/EN 60715 top-hat rail 120, IP40 (when fitted) Degree of Protection Mm File protection File protection Ferminal protection Mm File protection File protection Ferminal capacities Mm Mm ² File protection Ferminal capacities Mm 1x25 Standard protection	Direction of incoming supply			as required
inclosure height mm 80 Adunting width per pole Munting Constraints top and bottom for the formation of the f	Mechanical			
Mounting width per pole mm 1.5 Mounting IEC/EN 60715 top-hat rail Degree of Protection IEC/EN 60715 top-hat rail Degree of Protection IEC/EN 60715 top-hat rail Ferminals top and bottom IEC/EN 60715 top-hat rail Ferminal protection IEC/EN 60715 top-hat rail Ferminal capacities IEC/EN 60715 top-hat rail Imm ² Imm ² Imm ² Imm ²	Standard front dimension		mm	45
Mounting IEC/EN 60715 top-hat rail Degree of Protection IEC/EN 60715 top-hat rail reminals top and bottom IEC/EN 60715 top-hat rail reminal protection IEC/EN 60715 top-hat rail reminal capacities Imm ² Imm ² Ix 25	Enclosure height		mm	80
Degree of Protection IP20, IP40 (when fitted) reminals top and bottom Imm ² reminal capacities Imm ² Imm ² Imm ²	Mounting width per pole		mm	17.5
reminals top and bottom reminals top and bottom reminals reminal protection reminal capacities reminal capacities reminal capacities reminal capacities reminal capacities	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Imm ² Terminal capacities Imm ² Imm ² Imm ²	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
'hickness of busbar material mm 0.8 2	Thickness of busbar material		mm	0.8 2
Aounting 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	In	А	16
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	3.6

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 8.0

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])

Built-in depth	mm	n 70.5
Release characteristic		Z
Number of poles (total)		1
Number of protected poles		1
Rated current	А	16
Rated voltage	V	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	0
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	kA	10
Frequency	Hz	50 - 60
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		No
Over voltage category		3

Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		1
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
Explosion-proof		No