DATASHEET - FAZ-S1/2

Miniature circuit breaker (MCB), 1 A, 2p, characteristic: S





Part no. FAZ-S1/2 Catalog No. 278805 Alternate Catalog FAZ-S1/2 No. EL-Nummer 1695374 (Norway)

Similar to illustration

Delivery program

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

Technical data

Red operational worksige No FUE Red operational worksige No Red operational worksige	Electrical			
Image: state of the state of	Standards			
VDBiopaperialRed switching capacity act. to EC/EN 60947-2FuKa1Operational switching capacityKa5.0 K.S.ZMax. back-up fuseSectorSectorSectorSelectivity ClassPersonVSectorItespanPersonVSectorDirection finctioning supplyPersonSectorSelectivity ClassPersonSectorSelectivity ClassPersonSectorItespanPersonSectorBrenchaftSectorSectorBrenchaftSectorSectorSelectivity ClassSectorSectorItespanPersonSectorBrenchaftSectorSectorBrenchaftSectorSectorBrenchaftSectorSectorSector SectorSectorSectorBrenchaftSectorSectorSector SectorSectorSectorBrenchaftSectorSectorSector SectorSectorSectorSector SectorSectorSectorSector SectorSectorSectorSector Sector	Rated operational voltage	Ue	V	
Red switching capacity acc. to EVC/EN 60947-2I I I I ContractaristicI I<		Ue	V AC	240/415
Operational switching capacity Ka FA 5 Characteristic 6,0,K,S,Z Max. back-up fuse 5 5 Selectivity Class 7 6 Lifespan Poerational 5 6 Direction of incoming supply Poerational 1 6 Machard ford timension Poerational 5 6 Suddard ford timension Max 6 6 6 Mounting width per pole Max 6 <t< td=""><td></td><td></td><td>V DC</td><td>60 (per pole)</td></t<>			V DC	60 (per pole)
Characteristic 6,0, K, S, Z Max. back-up fuse 6,0, K, S, Z Max. back-up fuse 5 Selectivity Class 3 Lifespan 0 Direction of incoming supply 0 Direction of incoming supply 0 Macharita 1 Selectivity Class 1 Superior 1 Direction of incoming supply 0 Macharita 1 Selectivity Class 1 Superior 1 Selectivity Class 1 Selecti	Rated switching capacity acc. to IEC/EN 60947-2	l _{cu}	kA	10
Max.back-up fuse A gl/g0 Jack Selectivity Class A gl/g0 Jack Lifespan Deretion Joo00 Direction of incoming supply as required Mother as required Selectivity Class mm Selectivity Class Mother mm Selectivity Class Selectivity Class Direction of incoming supply mm Selectivity Class Selectivity Class Selectivity Class mm Selectivity Class Selectivity Class Mother mm Selectivity Class Selectivity Class Selectivity Class mm Selectivity Class Selectivity Class	Operational switching capacity		kA	7.5
Selectivity Class Peratoms Peratoms Peratoms Portune Portune <td>Characteristic</td> <td></td> <td></td> <td>B, C, D, K, S, Z</td>	Characteristic			B, C, D, K, S, Z
Ifespan Image: Marking and	Max. back-up fuse		A gL/gG	125
Irispan Operations Potention Potention <th< td=""><td>Selectivity Class</td><td></td><td></td><td>3</td></th<>	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 Standard front dimension mm 6 mm 6 Declosure height mm 0 75 75 Mounting width per pole Mm 15/k 00715 top-hat rail 70/k 00/k 00/k 00/k 00/k 00/k 00/k 00/k	Lifespan	Operations		> 10000
Standard front dimension mm 4 Enclosure height mm 80 Mounting width per pole mm 15. Mounting EC/EN 60715 top-hat rail EC/EN 60715 top-hat rail Degree of Protection FM 120. IP40 (when fitted) Terminal stop and bottom FM FM Finger and back-of-hand proof to BGV A2 Terminal capacities mm ² 1 × 25 mm 1 × 25 Terminal capacities mm ² 2 × 10 mm 1 × 25 Thickness of busbar material mm mm 8 × 2 1 × 25	Direction of incoming supply			as required
Enclosure height mm 8 Mounting width per pole mm 1.5 Mounting IEC/EN 60715 top-hat rail IEC/EN 60715 top-hat rail Degree of Protection FV IEC/EN 60715 top-hat rail Terminals top and bottom FV IEC/EN 60715 top-hat rail Terminal protection FV Imm Imm Terminal capacities mm Imm Imm Imm Mm Mm Mm Imm Imm <td>Mechanical</td> <td></td> <td></td> <td></td>	Mechanical			
Mounting width per pole nm 1.5 Mounting IC/EN 60715 top-hat rail Degree of Protection F02, IP40 (when fitted) Terminal stop and bottom Mm Timipose terminals Terminal capacities nm² Timenar Inspect nm² 1x25 Terminal capacities mn² 1x2	Standard front dimension		mm	45
Mounting IC/EN 60715 top-hat rail Degree of Protection P20, IP40 (when fitted) Terminals top and bottom VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Enclosure height		mm	80
Degree of Protection P20, IP40 (when fitted) Terminals top and bottom File Terminal protection File Terminal capacities Imm ² Immer 1×25 Terminal capacities Imm ² Terminal capacities I	Mounting width per pole		mm	17.5
Terminals top and bottom Image: Sector S	Mounting			IEC/EN 60715 top-hat rail
Terminal protection Image: market of - hand proof to BGV A2 Terminal capacities mm ² Image: market of - hand proof to BGV A2 Image: market of - hand p	Degree of Protection			IP20, IP40 (when fitted)
Terminal capacities ma ² Imm ² 1×25 Imm ² 2×10 Imm ² 1<0	Terminals top and bottom			Twin-purpose terminals
Image: second	Terminal protection			Finger and back-of-hand proof to BGV A2
Image:	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	In	А	1
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	3.2

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
			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])

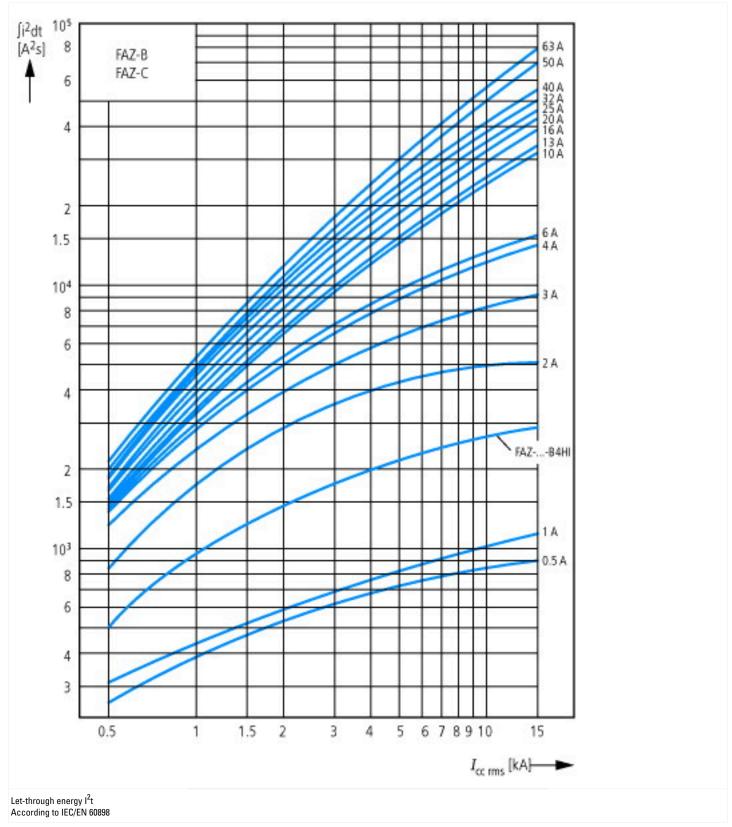
Release characteristic		Other
Number of poles (total)		2
Number of protected poles		2
Rated current	А	1
Rated voltage	V	230
Rated insulation voltage Ui	v	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity 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

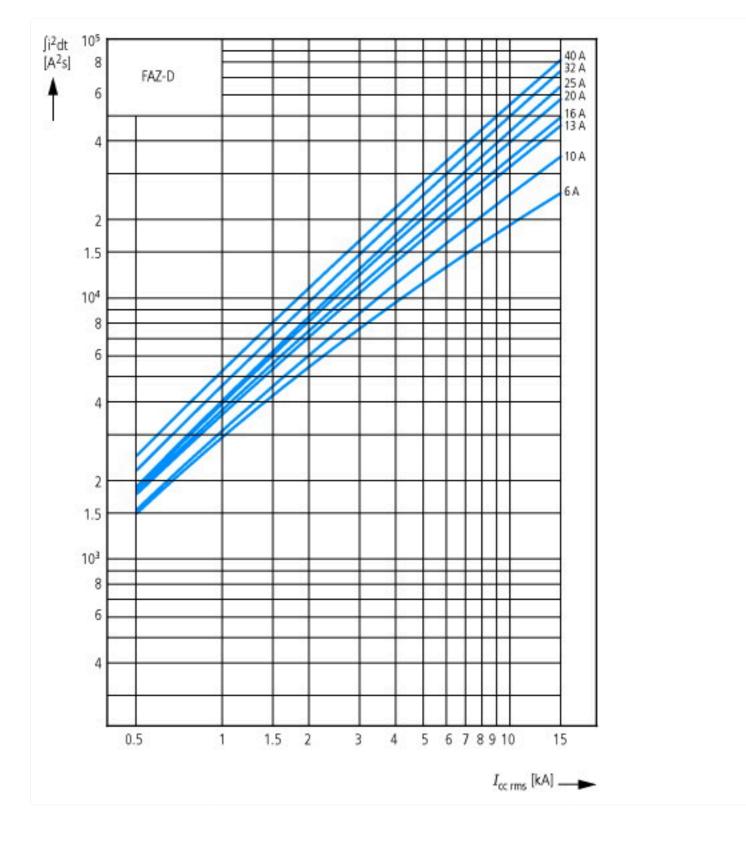
Additional equipment possible		Yes
Width in number of modular spacings		2
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

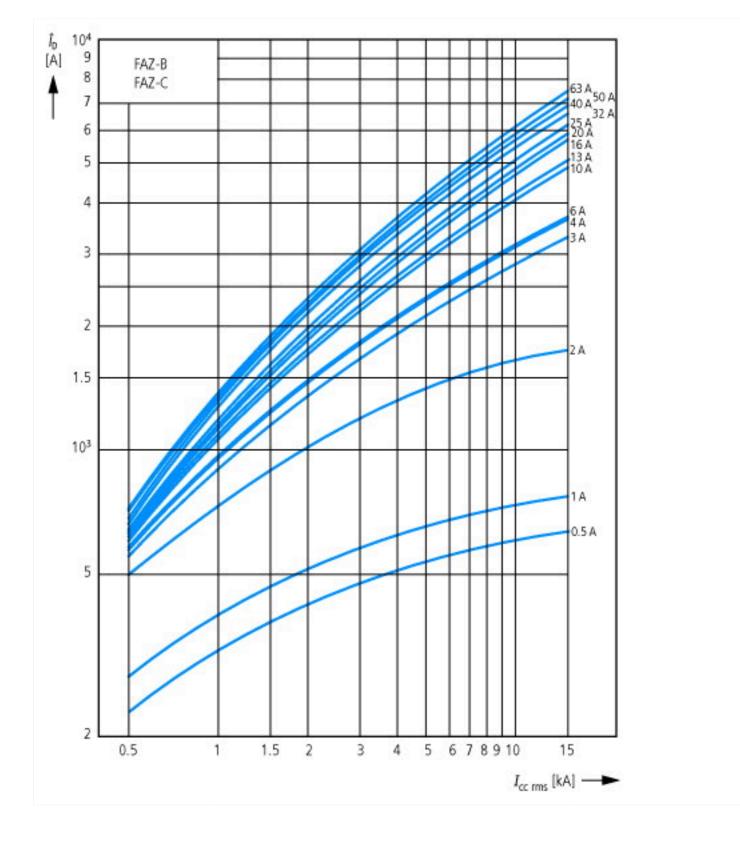
Approvals

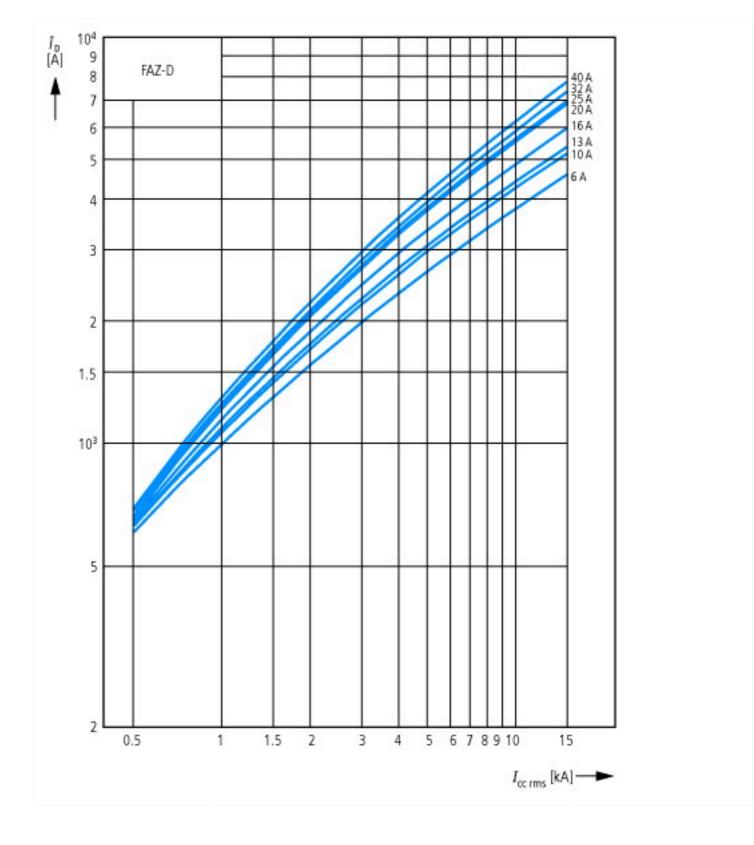
Product Standards	IEC/EN 60947-2; IEC/EN 60898; EN 45545-2; IEC 61373; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480Y/277 VAC; 96 VDC
Degree of Protection	IEC: IP20; UL/CSA Type: -

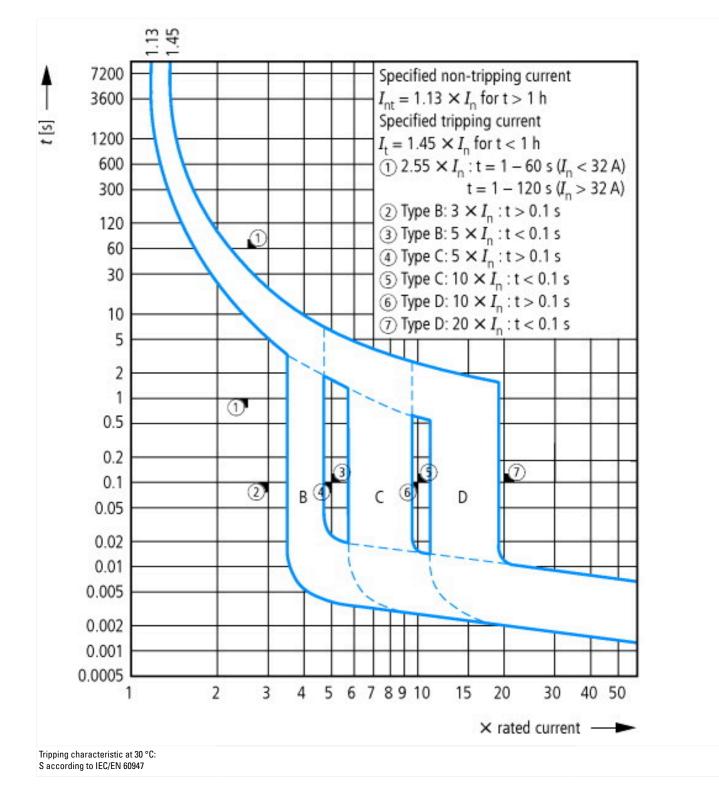
Characteristics



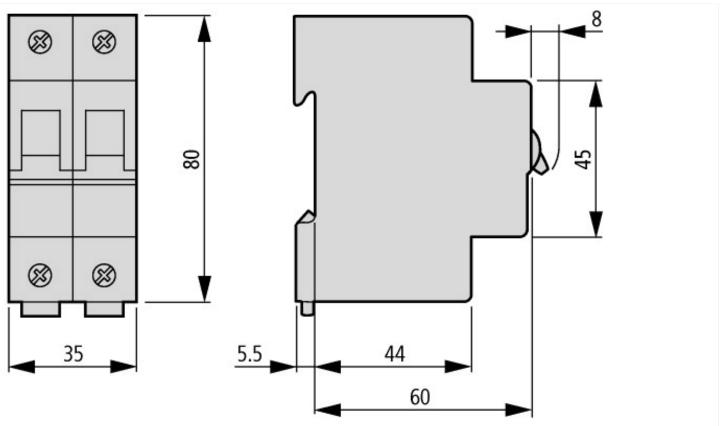








Dimensions



Additional product information (links)

Temperature dependency, derating

 $\label{eq:https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf$