# DATASHEET - FAZ-S25/2

Miniature circuit breaker (MCB), 25A, 2p, S-Char, AC





Part no.FAZ-S25/2Catalog No.278813Alternate CatalogFAZ-S25/2No.EL-Nummer(Norway)0001695382

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	25
Rated switching capacity acc. to IEC/EN 60947-2	l <sub>cu</sub>	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 <sub>e</sub>	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 ford dimension     Image: S     Max     S       Aduuting with per pole     Max     S     S       Aduuting     Image: S     Max     S       Aduuting     Image: S     S     S       Aduuting     Image: S			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<sub>cu</sub></td> <td>kA</td> <td>10</td>	Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	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: Selectivity Class   >     Image: Selectivity Class   Image: Selectivity Class   >     Image: Selectivity Class   Image: Selectivity Class   >   > <td>Operational switching capacity</td> <td></td> <td>kA</td> <td>7.5</td>	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     Adounting top and bottom   mm   1000     Ferminal protection   mm   1000     Ferminal capacities   mm   1000     Ferminal capacities   mm   1000     Ferminal capaci	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 <sup>2</sup> Ferminal capacities mm <sup>2</sup>	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 <sup>2</sup> Terminal capacities   mm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> mm <sup>2</sup> 1 x 25	Terminals top and bottom			Twin-purpose terminals
mm <sup>2</sup> 1 x 25	Terminal protection			Finger and back-of-hand proof to BGV A2
	Terminal capacities		mm <sup>2</sup>	
mm <sup>2</sup> 2 x 10			mm <sup>2</sup>	1 x 25
			mm <sup>2</sup>	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 <sub>n</sub>	А	25
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	5.3

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])

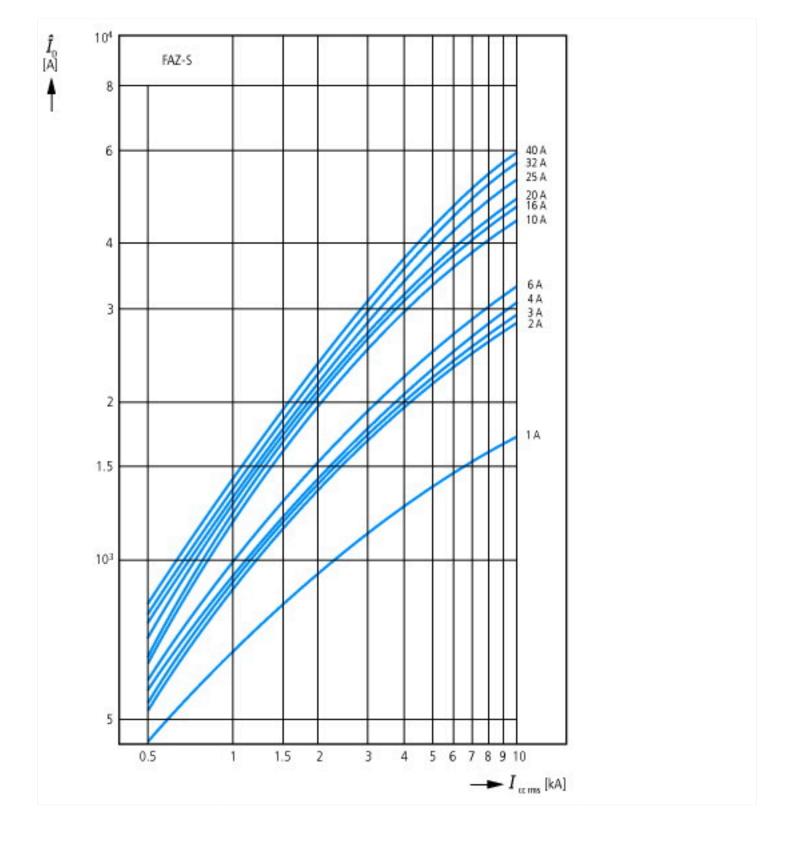
Release characteristic		Other
Number of poles (total)		2
Number of protected poles		2
Rated current	А	25
Rated voltage	v	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity 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

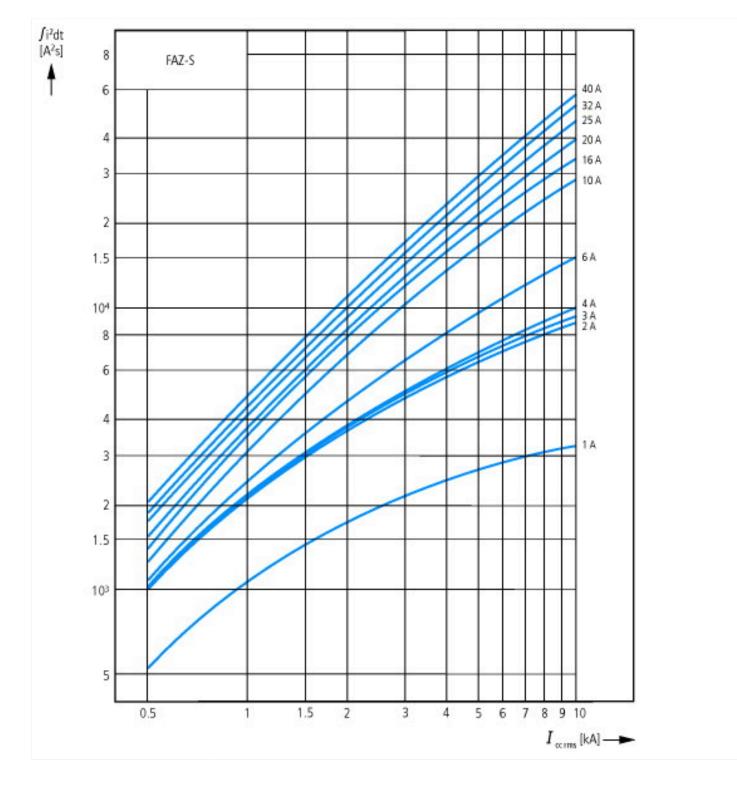
Additional equipment possible		Yes
Width in number of modular spacings		2
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

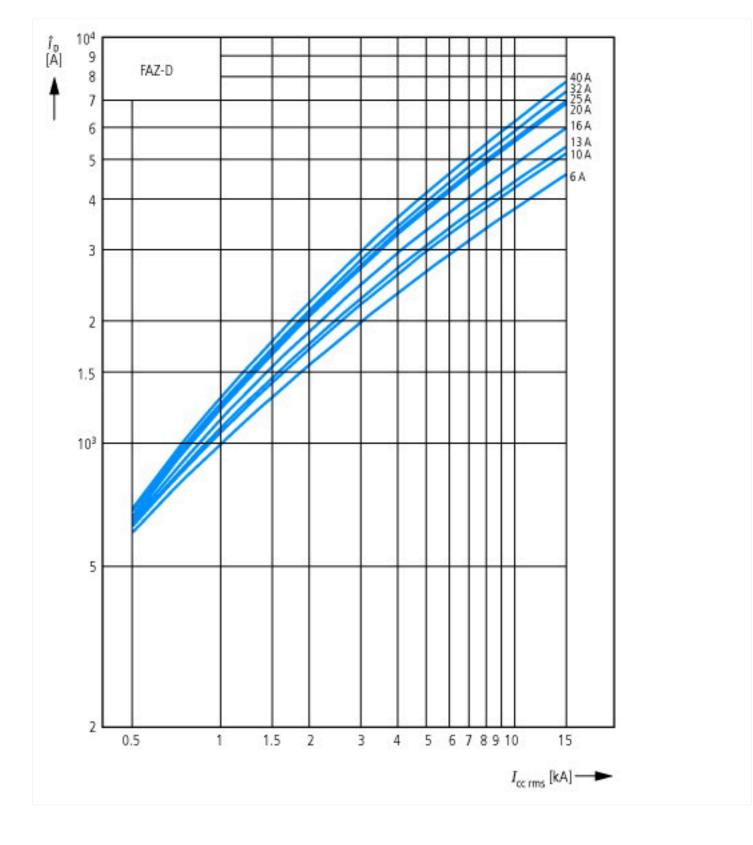
#### **Approvals** Product Standards IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking UL File No. E177451 QVNU2, QVNU8 UL Category Control No. 204453 CSA File No. CSA Class No. 3215-30 North America Certification UL recognized, CSA certified Conditions of Acceptability Supplementary 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: -

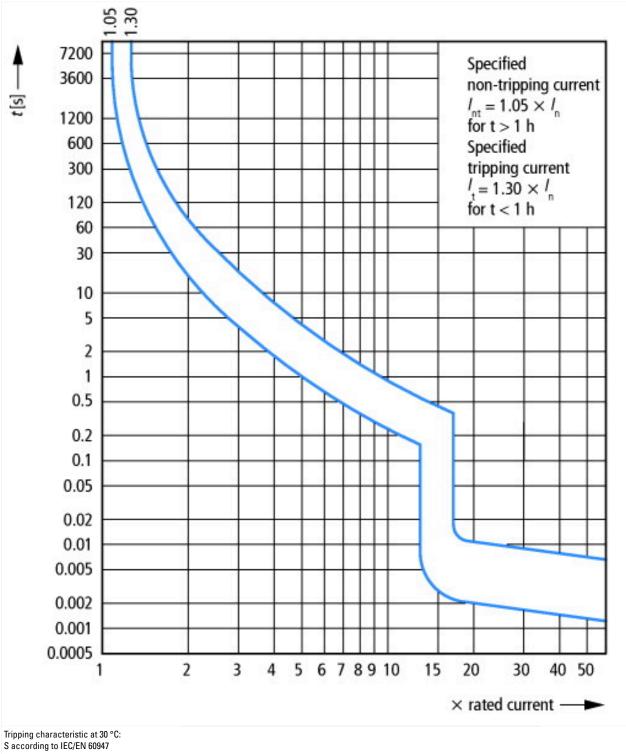
# **Characteristics**



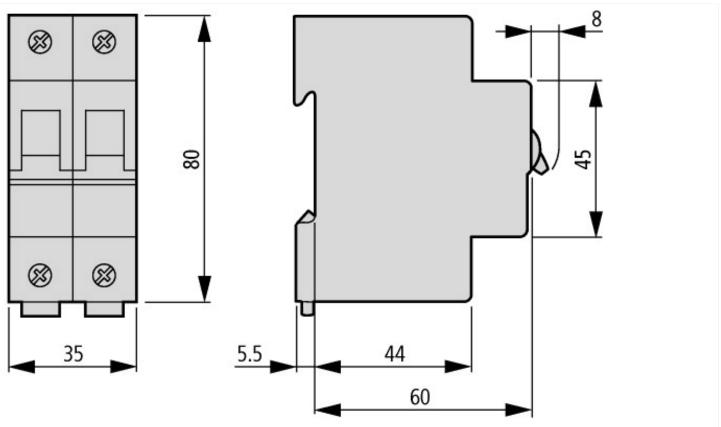








# **Dimensions**



# Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker Temperature dependency, derating ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/17550701.pdf

, derating https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf