DATASHEET - FAZT-B16/1



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

Powering Business Worldwide

Part no. FAZT-B16/1 Catalog No. 240795 Alternate Catalog FAZT-B16/1

No.

EL-Nummer 1605560

(Norway)

Delivery program

- control programm			
Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			В
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	16
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
Product range			FAZ-T

Technical data

Electrical

Standards			IEC/EN 60947-2
Rated voltage according to IEC/EN 60947-2	Un	V AC	240
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
Rated service short-circuit breaking capacity according to IEC/EN 60947-2	I _{cs}		12,5 kA
Max operational voltage according to IEC/EN 60947-2		V AC	254
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		7,5 kA
Max operational voltage DC according to IEC/EN 60947-2		V DC	60/pole
Rated voltage according to IEC/EN 60898-1	Un	V AC	240
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA
Rated insulation voltage	Ui	V	440
Rated frequency	f	Hz	50/60
Characteristic			B, C, D
Direction of incoming supply			as required
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 10000
Mechanical			

Mechanical		
Standard front dimension	mm	45
Enclosure height	mm	80
Mounting width per pole	mm	17.5
Mounting		Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Degree of Protection		IP20
Terminals top and bottom		Twin-purpose terminals
Terminal protection		Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6
Terminal capacities	mm^2	1 - 25
Tightening torque of fixing screws	N/m	max. 2.4
Thickness of busbar material	mm	0.8 (exept N 0.5 SU)
Mounting position		As required

Design verification as per IEC/EN 61439

Technical data for design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance 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 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.3.0 Egree of protection of ASSEMBLIES 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.1 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise The panel builder's responsibility. 10.11 Short-circuit rating Neets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise The panel builder's responsibility. 10.9.1 Te				
Equipment heat dissipation, non-current-dependent Pro W 2.2 Static heat dissipation, non-current-dependent Pro W 0 Operating ambient temperature min. Operating ambient temperature max. For this stage design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance or insulating materials to normal heat and fire due to internal electric internal	Rated operational current for specified heat dissipation	In	Α	16
Static heat dissipation, non-current-dependent Process Heat dissipation capacity Poiss W 0 Operating ambient temperature min. Operating ambient temperature max. **C 40 Operating ambient temperature max. **C 75 EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Liverification of therail atability of enclosures 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2 Strength of materials and parts 10.2.5 Lithing 10.2.5 Mechanical impact 10.2.1 Strength of switching devices and components 10.3 Degree of protection of ASSEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.4 Resistance to ultra-violet (UV) radiation 10.5 Protection against electric devices 10.7 Internal electric al circuits and connections 10.8 Incorporation of switching devices and components 10.9 Internal electric al circuits and connections 10.3 Internal electric al circuits and connections 10.3 Internal electric al circuits and connections 10.4 Resistance of requested electric strength 10.5 Internal electric al circuits and connections 10.6 Incorporation of switching devices and components 10.7 Internal electric al circuits and connections 10.8 Degree requested electric strength 10.9 Internal electric al circuits and connections 10.9 Internal electric al circuits and connections 10.9 Internal electric al circuits and connections 10.1 Internal electric al circuits and connections 10.1 Internal electric al circuits and connections 10.2 Internal electric al circuits and connections 10.3 Internal electric al circuits and connections 10.4 Resisting of enclosures made of insulating material 10.5 Internal electric al circuits and connections 10.6 Interporation of switching devices and components 10.8 Repart builder's responsibility. 10.9 Internal electric al circuits and c	Heat dissipation per pole, current-dependent	P _{vid}	W	0
Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. 10 27 40 Immax, per +1 °C, results in a 0.5% reduction of current carrying capacity EE/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3 I Verification of thermal stability of enclosures 10.2.3 Verification of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Strength of a materials and parts 10.2.5 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Image 10.2.5 (UV) radiation 10.2.5 Image 10.2.5 (UV) radiation 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.2.9 Mechanical impact 10.2.8 Mechanical impact 10.2.9 Experiments 10.2.9 Experiments 10.2.9 Experiments 10.3 Design of responsibility 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Frotection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components 10.9 Insulation properties 10.1 Internal electrical circuits and connections 10.2 Internal electrical circuits and connections 10.3 Insulation properties 10.3.4 Testing of enclosures made of insulating material 10.1 Temperature rise 10.1 Experiments 10.1 Experiments 10.2 Internal electrical circuits series 10.3 Experiments 10.4 Experiments 10.5 Internal electrical circuits and connections 10.5 Internal electrical circuits and connections 10.6 Incorporation of switching devices and connections 10.7 Internal electrical circuits and connections 10.8 Internal electrical circuits and connections 10.9 Insulation properties 10.1 Experiments 10.1 Experiments	Equipment heat dissipation, current-dependent	P _{vid}	W	2.2
Operating ambient temperature min. Operating ambient temperature max. ***C*** To Stimear, per +1 **C, results in a 0.5% reduction of current carrying capacity EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 To corsoion resistance 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.4. Resistance to ultra-violat (UV) radiation 10.2.5 Litting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.7 Inscriptions 10.2.8 Inscriptions 10.2.9 General product standard's requirements. 10.2.1 Mests the product standard's requirements. 10.2.2 Inscriptions 10.2.3 Norification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.2.9 Inscriptions 10.2.9 General product standard's requirements. 10.2.9 Inscriptions 10.2.9 Experiments 10.2.9 Experiments 10.2.1 Resistance to ultra-violat (UV) radiation 10.2.5 Inscriptions 10.2.6 Inscriptions 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.2.9 Inscriptions 10.2.9 Experiments 10.2.1 Inscriptions 10.2.1 Inscriptions 10.2.2 Experiments 10.3 Inscriptions 10.4 Experiments 10.5 Inscriptions 10.5 Inscriptions 10.6 Inscriptions 10.7 Internal electrical circuits and connections 10.8 Insulation properties 10.9 Protection against electric shock 10.9 Insulation properties 10.9 Protection against electric strength 10.9 Insulation properties 10.9 Protection against electri	Static heat dissipation, non-current-dependent	P _{vs}	W	0
Color Figure Fi	Heat dissipation capacity	P _{diss}	W	0
Finear, per +1 °C, results in a 0.5% reduction of current carrying capacity EC/EN 61439 design verification	Operating ambient temperature min.		°C	-40
EC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.3 L'verification of thermal stability of enclosures 10.2.3.1 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultre-violet (UV) radiation 10.2.5 Lifting 10.2.6 Rechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Dees not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions 10.4 Clearances and creepage distances 10.5 Incorporation of switching devices and components 10.5 Incorporation of switching devices and components 10.5 Incorporation of switching devices and components 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.15 Mechanical function 10.16 Incorporation of switching devices and components 10.17 Internal electric strength 10.18 Lepanel builder's responsibility. 10.19 Insulation properties 10.19 Insulation properties 10.19 Insulation properties 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Means the product standard's requirements. 10.17 Mechanical function 10.18 Means the product standard's requirements. 10.19 Means the product standard's requirements. 10.19 Meets the product standard's requirements. 10.29 Does not apply, since the entire switchgear needs to be evaluated. 10.20 Does not apply, since the entire switchgear needs to be evaluated. 10.20 Does not apply, since the entire switchgear needs to be evaluated. 10.21 Temperatu	Operating ambient temperature max.		°C	75
10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Machanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Internal electrication of the switchgear must be observed. 10.16 Incorporation of switching devices and components 10.17 Internal electrical circuits and connections 10.18 Internal electrical circuits and connections 10.19 Internal electrical circuits and connections 10.19 Internal electrical circuits and connections 10.10 Internal electrical circuits and connections 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Internal electrical circuits and connections 10.14 Electromagnetic compatibility 10.15 Internal electrical circuits and connections 10.16 Internal electrical circuits and connections 10.17 Internal electrical circuits and connections 10.18 Internal electrical circuits and connecti				linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
10.2.2 Corresion resistance 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. In Internal electrical circuits and connections Is the panel builder's responsibility. In 198 Insulation properties In 1992 Power-frequency electric strength Is the panel builder's responsibility. In 1993 Impulse withstand voltage Is the panel builder's responsibility. In 1994 Testing of enclosures made of insulating material In 1994 Testing of enclosures made of insulating material In 1995 The panel builder's responsibility. In 1995 The panel buil	IEC/EN 61439 design verification			
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Mechanical impact 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.0 Egree of protection of ASSEMBLIES 10.3.0 Egree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Frotection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Insulation properties 10.9.1 Expansibility. 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9 Insulation properties 10.9 Ins	10.2 Strength of materials and parts			
10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9 Insulation properties 10.9.1 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. It panel builder's responsibility. The panel builder's responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction of the switchgear must be observed.	10.2.2 Corrosion resistance			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 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact 10.2.6 Mechanical impact 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 10.10 Temperature rise 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
and fire due to internal electric effects 10.24 Resistance to ultra-violet (UV) radiation 10.25 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.26 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.27 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. 10.10 Temperature rise The panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility The device meets the requirements, provided the information in the instruction	10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. In the panel builder's responsibility. It is the panel builder's responsibility. It is the panel builder's responsibility. The specifications for the switchgear must be observed. Does not apply, since the entire switchgear must be observed. Does not apply, since the entire switchgear feeds to be evaluated. In the panel builder's responsibility. The specifications for the s				Meets the product standard's requirements.
10.2.6 Mechanical impact 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. 10.9 Insulation properties In the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material In the panel builder's responsibility. 10.10 Temperature rise In the panel builder's responsibility. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility In the device meets the requirements, provided the information in the instruction	10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.7 Inscriptions 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. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
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 is responsibility. 10.10 Temperature rise The panel builder is 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	10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
Meets the product standard's requirements. 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. In provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction	10.2.7 Inscriptions			Meets the product standard's requirements.
10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. The panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The panel builder is responsibility. Is the panel builder is responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsibility. The specifications for the switchgear must be observed. In the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 1 Is the panel builder's responsibility. The panel builder is responsibility. The panel builder is responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility The device meets the requirements, provided the information in the instruction	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Is the panel builder's responsibility. Is the panel builder is responsibility. The panel builder is responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. The panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction	10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function Is the panel builder's responsibility. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 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	10.9 Insulation properties			
10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Testing of enclosures made of insulating material Is the panel builder's responsibility. The temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction	10.9.2 Power-frequency electric strength			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	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
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	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
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	10.10 Temperature rise			
observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	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			

Technical data ETIM 7.0

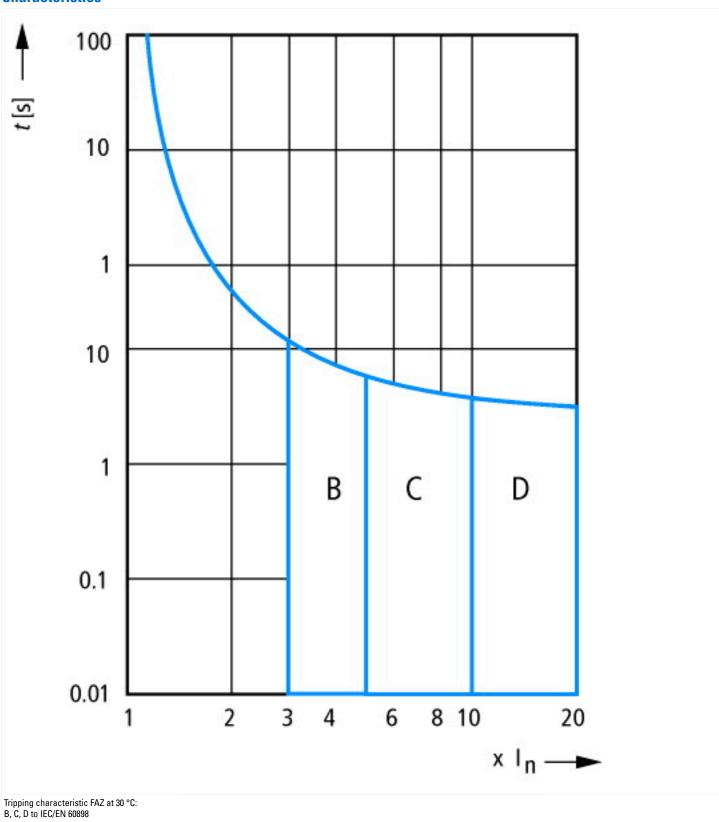
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

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])

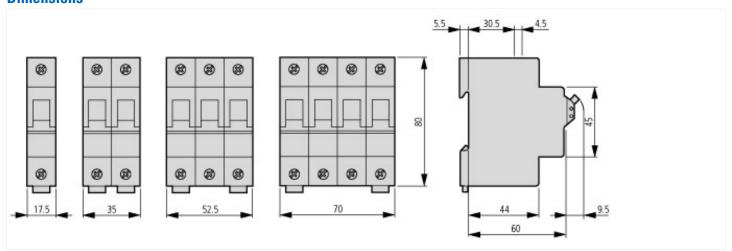
Number of poles (total) Number of protected poles Rated current Rated voltage Rated insulation voltage Ui Rated inpulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400	(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Number of protected poles Rated current A 16 Rated voltage V 240 Rated insulation voltage Ui Rated insulation voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RATED STATES S	Release characteristic		В
Rated current Rated current Rated voltage V 240 Rated insulation voltage Ui Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RATED SATES S	Number of poles (total)		1
Rated voltage Rated insulation voltage Ui Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RATED SALED	Number of protected poles		1
Rated insulation voltage Ui Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 Voltage type AC Frequency Hz 50 - 60 Current limiting class	Rated current	Α	16
Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 15 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC Frequency Current limiting class A 3	Rated voltage	V	240
Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 15 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC Frequency Hz 50 - 60 Current limiting class 3	Rated insulation voltage Ui	V	440
Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC Frequency Hz 50 - 60 Current limiting class 3	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC Frequency Hz 50 - 60 Current limiting class 3	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type AC Frequency Hz 50 - 60 Current limiting class 3	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15
Voltage type AC Frequency Hz 50 - 60 Current limiting class 3	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	25
Frequency Hz 50 - 60 Current limiting class 3	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	25
Current limiting class 3	Voltage type		AC
	Frequency	Hz	50 - 60
Suitable for flush-mounted installation No	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		1
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



Dimensions



Additional product information (links)

Temperature dependency, derating

 $https://www.eaton.com/content/dam/eaton/technical documentation/technical-data-tables/Derating\ table\ FAZ_T.pdf$