DATASHEET - FAZ-Z3/3



Miniature circuit breaker (MCB), 3A, 3p, Z-Char, AC

Powering Business Worldwide*

Part no. FAZ-Z3/3 Catalog No. 278922 Alternate Catalog FAZ-Z3/3

No.

EL-Nummer 0001695281

(Norway)

Similar to illustration

Delivery program

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			Z
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	3
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	10
Product range			FAZ

Technical data

3

Standards Rated operational voltage Ue VAC 240/415 VDC 60 (per pole) Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity Rated switching capacity Characteristic Max. back-up fuse Selectivity Class Lifespan Lifespan IEC/EN 60947-2	
Ue V AC 240/415 V DC 60 (per pole) Rated switching capacity acc. to IEC/EN 60947-2 Icu kA 10 Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Iifespan	
Rated switching capacity acc. to IEC/EN 60947-2 I _{cu} kA 10 Operational switching capacity kA 7.5 Characteristic B, C, D, K, S, Z Max. back-up fuse Selectivity Class Iifespan O Der pole A 10 A 2L/GG 3 3	
Rated switching capacity acc. to IEC/EN 60947-2 Operational switching capacity Characteristic Max. back-up fuse Selectivity Class lifespan	
Operational switching capacity kA 7.5 Characteristic B, C, D, K, S, Z Max. back-up fuse A gL/gG 125 Selectivity Class 3 lifespan	
Characteristic B, C, D, K, S, Z Max. back-up fuse A gL/gG Selectivity Class lifespan	
Max. back-up fuse A gL/gG 125 Selectivity Class 3 lifespan	
Selectivity Class 3 lifespan	
lifespan	
Liference > 10000	
Lifespair	
Direction of incoming supply as required	
Mechanical	
Standard front dimension mm 45	
Enclosure height mm 80	
Mounting width per pole mm 17.5	
Mounting IEC/EN 60715 top-hat rail	
Degree of Protection IP20, IP40 (when fitted)	
Terminals top and bottom Twin-purpose terminals	
Terminal protection Finger and back-of-hand proof to BGV A2	
Terminal capacities mm ²	
mm ² 1 x 25	
mm ² 2 x 10	
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	l _n	Α	3
Heat dissipation per pole, current-dependent	" D	W	0
	P _{vid}		
Equipment heat dissipation, current-dependent	P _{vid}	W	7.2

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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Concurrently switching N-neutral

Over voltage category

Pollution degree

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) 3 3 Number of protected poles Rated current Α 3 ٧ 400 Rated voltage Rated insulation voltage Ui ٧ 440 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 kΑ 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 Hz 50 - 60 Frequency **Current limiting class** 3 Suitable for flush-mounted installation No

No

3

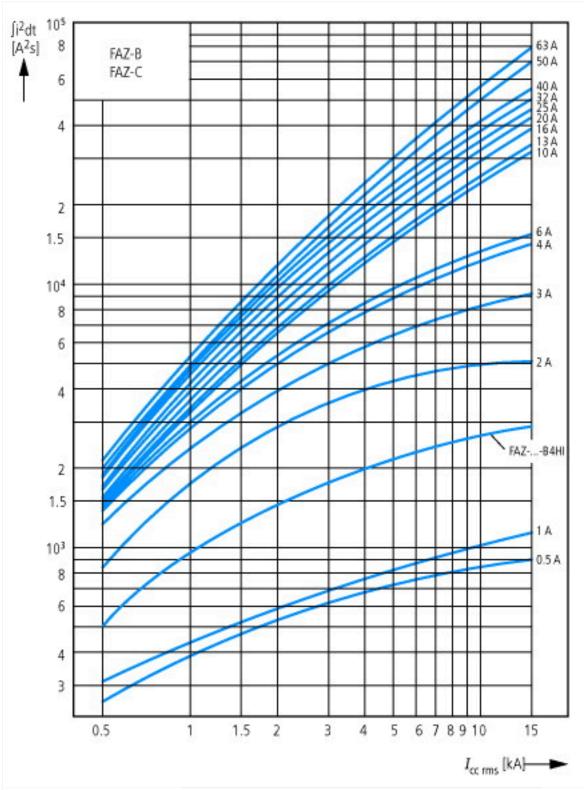
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Additional equipment possible		Yes
Width in number of modular spacings		3
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25

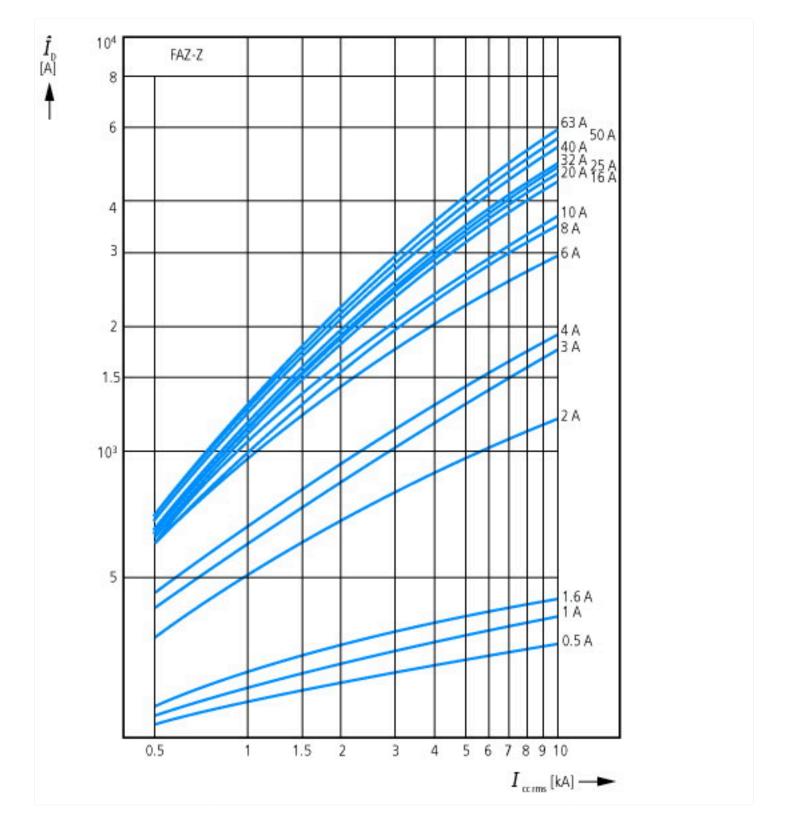
Approvals

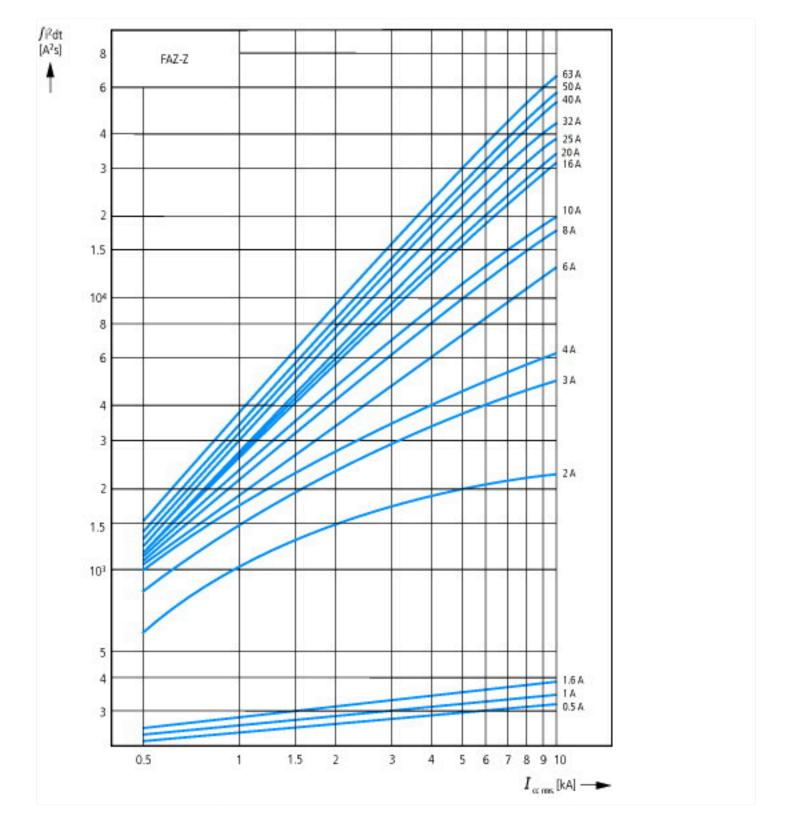
UL File No. LE 177451 UL Category Control No. CSA File No. CSA File No. CSA Class No. North America Certification Conditions of Acceptability Suipplementary Protector only Suitable for Current Limiting Circuit-Breaker E177451 QVNU2, QVNU8 204453 204453 UL recognized, CSA certified Supplementary Protector only Branch Circuits; not as BCPD No	• •	
UL Category Control No. CSA File No. CSA Class No. North America Certification Conditions of Acceptability Suitable for Current Limiting Circuit-Breaker OVNU2, QVNU8 204453 2015-30 UL recognized, CSA certified Supplementary Protector only Branch Circuits; not as BCPD No	Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
CSA File No. CSA File No. CSA File No. CSA Class No. Supplementary Protector only Suitable for Current Limiting Circuit-Breaker Supplementary Protector only Branch Circuits; not as BCPD No	UL File No.	E177451
CSA Class No. North America Certification UL recognized, CSA certified Conditions of Acceptability Suitable for Current Limiting Circuit-Breaker 3215-30 UL recognized, CSA certified Supplementary Protector only Branch Circuits; not as BCPD No	UL Category Control No.	QVNU2, QVNU8
North America Certification UL recognized, CSA certified Supplementary Protector only Suitable for Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No	CSA File No.	204453
Conditions of Acceptability Supplementary Protector only Suitable for Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No	CSA Class No.	3215-30
Suitable for Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No	North America Certification	UL recognized, CSA certified
Current Limiting Circuit-Breaker No	Conditions of Acceptability	Supplementary Protector only
	Suitable for	Branch Circuits; not as BCPD
May Voltage Pating	Current Limiting Circuit-Breaker	No
viax. voltage nating	Max. Voltage Rating	480Y/277 VAC
Degree of Protection IEC: IP20; UL/CSA Type: -	Degree of Protection	IEC: IP20; UL/CSA Type: -

Characteristics

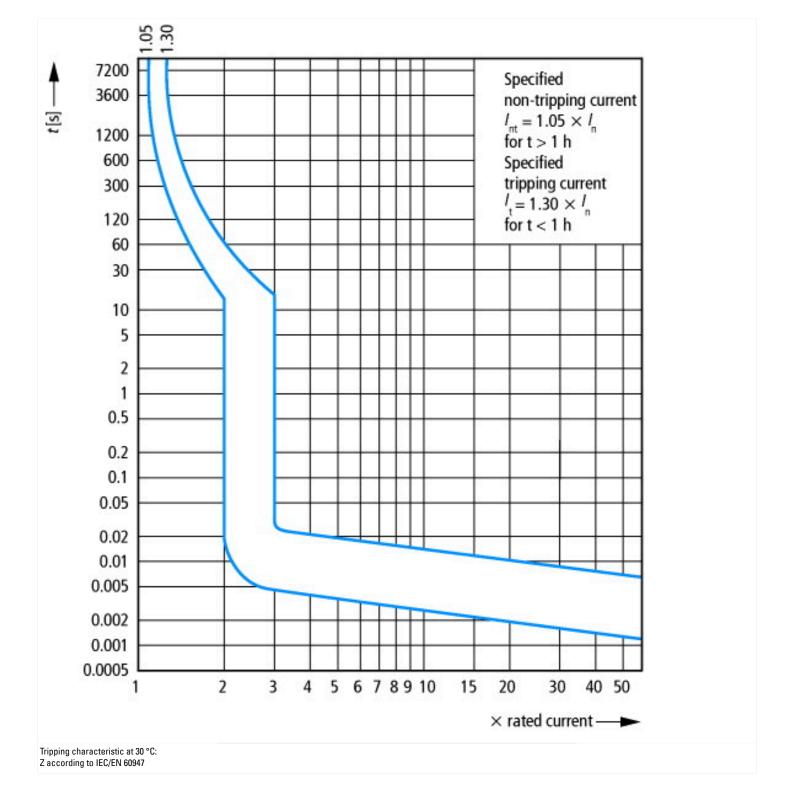


Let-through energy I²t According to IEC/EN 60898

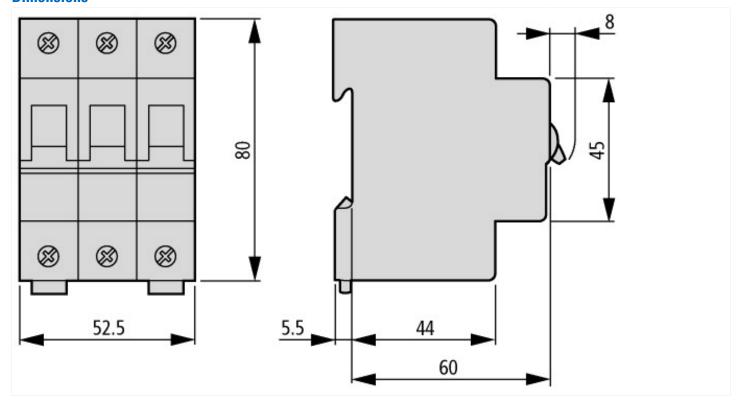








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker	
AWA1220-1755 Circiut-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf
Temperature dependency, derating	https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf