DATASHEET - FAZ-Z3/4



Miniature circuit breaker (MCB), 3A, 4p, Z-Char, AC



Part no.FAZ-Z3/4Catalog No.279110Eaton Catalog No.FAZ-Z3/4EL-Nummer0001695297(Norway)

Similar to illustration

Technical data

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Standards Image: Constraint of the second secon	
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VDC00 (per pole)Rated switching capacity acc to IEC/EN 60947-20IKA10Operational switching capacityKA7.5SACharacteristicKA5.0 K, S, ZKAMax. back-up fuseAgLyG25SA	
Rated switching capacity acc. to IEC/EN 60947-2 I I Operational switching capacity I I Characteristic I I Max. back-up fuse I I	
Operational switching capacity kA 7.5 Characteristic B, C, D, K, S, Z Max. back-up fuse AgL/gg 125	
Characteristic B, C, D, K, S, Z Max. back-up fuse AgL/gG	
Max. back-up fuse AgL/gG	
Selectivity Class 3	
lifespan	
Lifespan Operations > 10000	
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	I _n	А	3
Heat dissipation per pole, current-dependent	P _{vid}	W	0
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 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

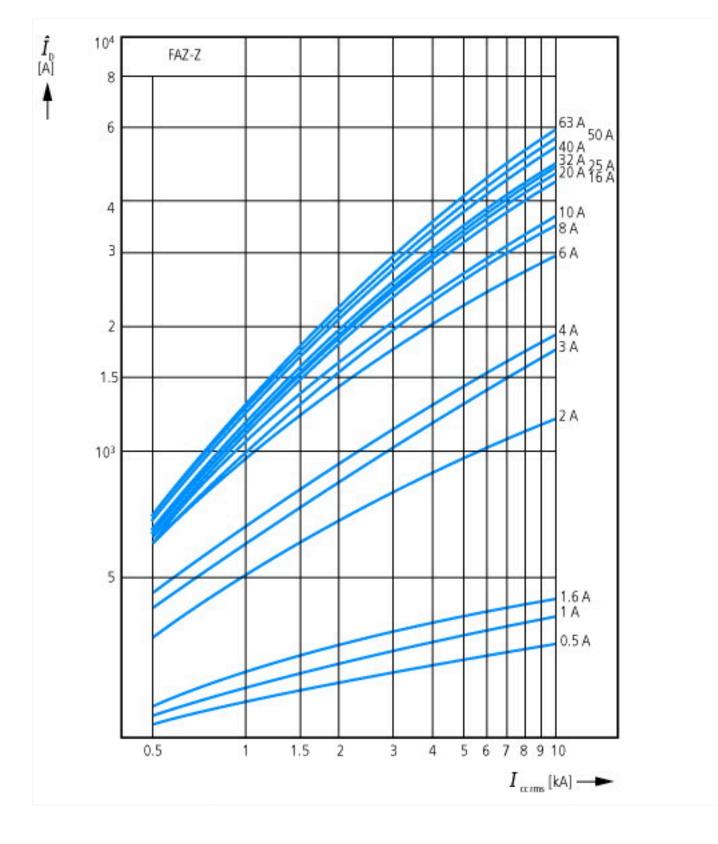
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

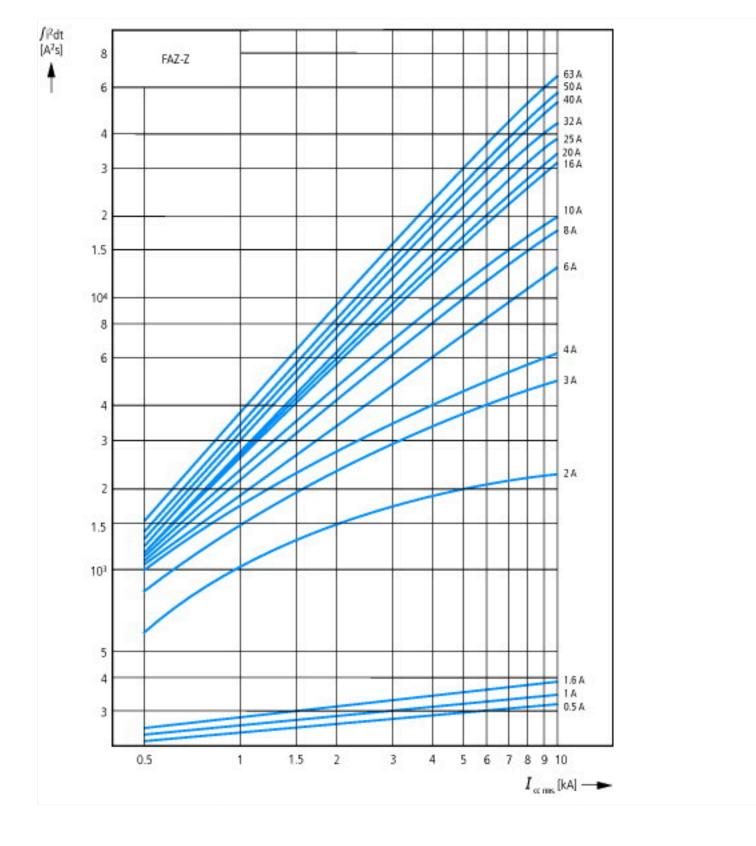
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

Number of poles (total)Image: section of the section of				
Number of protected polesImage: state of the	Release characteristic			Z
Rated current A A Rated virtage V 40 Rated insulation voltage Uin V 40 Rated insulation voltage Uinp V 40 Rated short-circuit breaking capacity Icn EN 60898 at 200 V K 0 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V KA 0 Notage type KA 0 0 Voltage type KA 0 0 Voltage type KA 0 0 Suitable for flush-mounted installation KA 0 0 Courrently switching N-neutral KA 0 0 Pollution degree KA 0 0 0 Outer voltage category KA 0 0 0 0 Pollution degree KA 0 <td>Number of poles (total)</td> <td></td> <td></td> <td>4</td>	Number of poles (total)			4
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Number of the section of the	Rated current	A		3
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Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 0 Voltage type C Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Voltage type C Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Voltage type C Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Voltage type C Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Voltage type C Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Voltage type C Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 0 Stable for flush-mounted installation C Na 0 0 Concurrently switching N-neutral S No S 0 0 Over voltage category Fee G S 0 0 0 0 0 0 0 0 0 0 0 </td <td>Rated impulse withstand voltage Uimp</td> <td>k۱</td> <td>V</td> <td>4</td>	Rated impulse withstand voltage Uimp	k۱	V	4
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Rated short-circuit breaking capacity lcu IEC 60947-2 at 400 V KA 0 Voltage type C C Frequency KA 50-60 Current limiting class S S Suitable for flush-mounted installation M S Concurrently switching N-neutral M M Over voltage category M S Pollution degree M S Additional equipment possible M M Built-in depth M M Degree of protection (IP) M M Anbient temperature during operating M M Connectable conductor cross section multi-wired M M	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	k/	A	0
Voltage type AC Frequency Hz 50-60 Current limiting class 3 3 Suitable for flush-mounted installation Max No Concurrently switching N-neutral Max Yes Ouer voltage category Yes 3 Pollution degree Yes Yes Additional equipment possible Yes Yes With in number of modular spacings Max Yes Built-in depth Yes Yes Parter of protection (IP) Max Yes Ambient temperature during operating Yes Yes Concectable conductor cross section multi-wired Yes Yes	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	k/	A	10
Frequency Hz 5 - 60 Current limiting class 5 - 60 Suitable for flush-mounted installation 5 3 Concurrently switching N-neutral Main No Concurrently switching N-neutral Main Suitable for flush-mounted installation Over voltage category Main Suitable for flush-mounted installation Pollution degree Main Suitable for flush-mounted installation Additional equipment possible Main Suitable for flush-mounted installation Width in number of modular spacings Main Suitable for flush-mounted installation Degree of protection (IP) Main Suitable for flush-mounted installation Anbient temperature during operating °C Suitable for flush-mounted installation Suitable conductor cross section multi-wired main Suitable for flush-mounted installation	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	k/	A	10
Current limiting class Image: Sector of the sector of	Voltage type			AC
Suitable for flush-mounted installation Mo Suitable for flush-mounted installation Mo Concurrently switching N-neutral Mo Over voltage category Saide of the second se	Frequency	H	z	50 - 60
Concurrently switching N-neutral Pole Yes Over voltage category 3 3 Pollution degree 2 4 Additional equipment possible Yes 3 Width in number of modular spacings Yes 3 Built-in depth Yes 4 Degree of protection (IP) Yes 3 Ambient temperature during operating Yes 3 Yes Yes 3	Current limiting class			3
Over voltage categorySee See See See See See See See See See	Suitable for flush-mounted installation			No
Pollution degree2Additional equipment possibleYesWidth in number of modular spacingsmmBuilt-in depthmmDegree of protection (IP)°CAmbient temperature during operating°CConnectable conductor cross section multi-wiredmm²125	Concurrently switching N-neutral			Yes
Additional equipment possible Me Yes Width in number of modular spacings Me Me Built-in depth mm 7.5 Degree of protection (IP) Image: Consectable conductor cross section multi-wired C 25.75 Ambient temperature during operating mm ² 1.25	Over voltage category			3
Width in number of modular spacings Median Built-in depth mm 70.5 Degree of protection (IP) IP0 Ambient temperature during operating °C 25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Pollution degree			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	Additional equipment possible			Yes
Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings			4
Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm ² 1 - 25	Built-in depth	m	ım	70.5
Connectable conductor cross section multi-wired mm ² 1 - 25	Degree of protection (IP)			IP20
	Ambient temperature during operating	٥(С	-25 - 75
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired	m	nm²	1 - 25
	Connectable conductor cross section solid-core	m	nm²	1 - 25

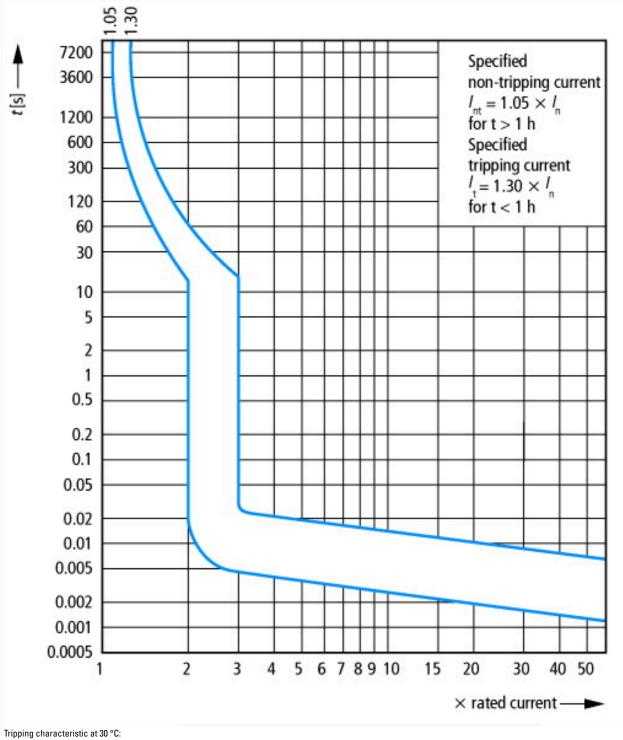
Characteristics











03/07/2019

Dimensions

