DATASHEET - FAZ-Z40/1

Miniature circuit breaker (MCB), 40 A, 1p, characteristic: Z



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SSA C22 No. 235SSA C22 No. 23	Compliances			UL CSA09 (with supplementary protector only)
Product Type MCB Product Sub Type None Delivery program None Application Branch circuits, not as BCPD Number of poles Switchgear for industrial and advanced commercial applications xtHeet- Switchgear for industrial and advanced commercial applications for the switchgear for industrin advanced commercia	Certifications			CSA-C22.2 No. 235 CSA (File No. 204453) CE marking UL (Category Control Number QVNU2, QVNU8) North America (UL recognized, CSA certified) CSA (Class No. 3215-30) UL 1077 IEC/EN 60898 UL (File No. E177451) IEC 61373
Product Sub Type None Delivery program Branch circuits, not as BCPD. Application Branch circuits, not as BCPD. Number of poles Single-pole Number of poles (total) Single-pole Number of poles (protected) I Number of poles (protected) I Number of poles (protected) I Apperage Rating Z Type 40 A Type 40 A Voltage type AC Voltage rating 240 V AC / 415 V AC Voltage rating (UL CSA 13) EVECTION Rated size size (ULIMP) 240 V AC / 415 V AC Voltage rating (UL CSA 13) EVECTION Rated size size (ULIMP) 240 V AC / 415 V AC Voltage rating (UL CSA 13) EVECTION Rated size size (ULIMP) 240 V AC / 415 V AC Rated size size size size size size size size	Product Tradename			xEffect - FAZ
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Tripping characteristicZRelease characteristicZAmperage Rating40 ATypeFAZ Miniature circuit breakerTothical Data - ElectricalAVoltage typeACVoltage type40 V AC / 415 V ACVoltage rating at DC240 V AC / 415 V ACVoltage rating (UL CSA 13)277 V AC; 48 V DCRated operational voltage (Uinp)400 VRated insulation voltage (Uinp)440 VFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 609492)200 VRated short-circuit breaking capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 609492)0 kARated short-circuit breaking capacity (IEC 6094922)0 kARated short-circuit breaking capacity (IEC 6094922)0 kARated short-circuit breaking capacity (IEC 6094922)0 kARated short-circuit breaking capacity (IEC 609472)0 kARated short-circuit breaking capacity (IEC 6094722)0 kARated short-circuit breaking capacity (IEC 6094722) <td< td=""><td>Number of poles (total)</td><td></td><td></td><td>1</td></td<>	Number of poles (total)			1
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Frequency rating - min50 HzFrequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity7.5 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA	Rated insulation voltage (U	Ji)		440 V
Frequency rating - max60 HzRated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity (EN 60988) at 230 V7.5 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA	Rated impulse withstand v	roltage (Uimp)		4 kV
Rated switching capacity (IEC/EN 60947-2)10 kAOperational switching capacity10 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA	Frequency rating - min			50 Hz
Operational switching capacityCompared by a capacity7.5 kARated short-circuit breaking capacity (EN 60898) at 230 V0 kARated short-circuit breaking capacity (EN 60898) at 400 V0 kARated short-circuit breaking capacity (IEC 60947-2) at 230 V0 kA	Frequency rating - max			60 Hz
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Rated short-circuit breaking capacity (EN 60898) at 400 V 0 kA Rated short-circuit breaking capacity (IEC 60947-2) at 230 V 10 kA	Operational switching cap	acity		7.5 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	Rated short-circuit breakin	ng capacity (EN 60898) at 230 V		0 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	Rated short-circuit breakin	ng capacity (EN 60898) at 400 V		0 kA
				10 kA

Admissible back-up fuse - max

125 A gL/gG

Calasti itti alasa	2
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	
Pollution degree	2 Association
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm
Enclosure width	80 mm
Width in number of modular spacings	1
Built-in depth	70.5 mm
Mounting width per pole	17.5 mm
Mounting width	17.5 mm
Mounting Method	Top-hat rail IEC/EN 60715
Mounting position	As required
Degree of protection	UL/CSA Type: - IP20 (IEC) IP20 IP40 (when fitted)
Terminals (top and bottom)	Twin-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mm ²
Connectable conductor cross section (solid-core) - max	25 mm ²
Connectable conductor cross section (multi-wired) - min	1 mm ²
Connectable conductor cross section (multi-wired) - max	25 mm ²
Terminal capacity of screw terminals for main cable	10 mm² (2x)
Terminal capacity (control cable)	25 mm² (1x)
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Busbar material thickness	0.8 mm - 2 mm
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	40 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	4.5 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	75 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.
10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise	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.

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.
Additional information	
Current limiting class	3
Features	Additional equipment possible
Special features	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
Used with	FAZ Miniature circuit breaker

Technical data ETIM 9.0

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@ss13-27-14-19-01 [AAB905019]) Built-in depth mm 70.5 Release characteristic Ζ Number of poles (total) 1 Number of protected poles 1 Rated current 40 А v Rated voltage 230 440 Rated insulation voltage Ui v Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kΑ 0 Voltage type AC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kΑ 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 10 Frequency Hz 50 - 60 w Power loss 4.5 Current limiting class 3 Flush-mounted installation No Concurrently switching neutral conductor No Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 1 Degree of protection (IP) IP20 °C -25 - 75 Ambient temperature during operating Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25 Explosion-proof No