## DATASHEET - FAZ-Z2/1

## Miniature circuit breaker (MCB), 2 A, 1p, characteristic: Z



IVI	Miniature Circuit breaker (MCB), 2 A		
EL	2	FAZ-Z2/1 278620 1695248	Powering Business Worldv
General specifications			
Product name			Eaton Moeller series xEffect - FAZ MCB
Part no.			FAZ-Z2/1
EAN			4015082786205
Product Length/Depth			80 millimetre
Product height			75.5 millimetre
Product width			17.7 millimetre
Product weight			0.113 kilogram
Compliances			UL CSA09 (with supplementary protector only)
Compliances			RoHS conform
Certifications			UL (Category Control Number QVNU2, QVNU8) CSA (File No. 204453) UL (File No. E177451) IEC/EN 60898 CSA-C22.2 No. 235 North America (UL recognized, CSA certified) CE marking IEC/EN 60947-2 UL 1077 CSA (Class No. 3215-30) EN45545-2 IEC 61373
Product Tradename			xEffect - FAZ
Product Type			MCB
Product Sub Type			None
Delivery program			
Application			Branch circuits, not as BCPD Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles			Single-pole
Number of poles (total)			1
Number of poles (protected)			1
Tripping characteristic			Z
Release characteristic			Z
Amperage Rating			2 A
Type Technical Data - Electrical			FAZ Miniature circuit breaker
Voltage type			
Voltage rating			240 V AC / 415 V AC
Voltage rating at DC			60 V DC (per pole)
Voltage rating (UL CSA 13)			277 V AC; 48 V DC
Rated operational voltage (Ue) - m	lax		230 V
Rated insulation voltage (Ui)	11:		440 V
Rated impulse withstand voltage (	UIMP)		4 kV
Frequency rating - min			50 Hz
Frequency rating - max	60047-2)		60 Hz
Rated switching capacity (IEC/EN	00347-2)		10 kA
Operational switching capacity	1. (EN 00000)		7.5 kA
Rated short-circuit breaking capac			0 kA
Rated short-circuit breaking capac			0 kA
Rated short-circuit breaking capac			10 kA
Rated short-circuit breaking capac	city (IEC 60947-2) at 400 V		10 kA

Admissible back-up fuse - max

125 A gL/gG

Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	
Pollution degree	2
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	IP20 IP40 (when fitted) UL/CSA Type: - IP20 (IEC)
Terminals (top and bottom)	Twin-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	25 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min	1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	25 mm <sup>2</sup>
Terminal capacity of screw terminals for main cable	10 mm <sup>2</sup> (2x)
Terminal capacity (control cable)	25 mm <sup>2</sup> (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)	2 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	3.7 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.
10.10 Temperature rise	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	Miniature circuit breaker FAZ

## **Technical data ETIM 9.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)		
Electric engineering, automation, process control engineering / Electrical installation, ( [AAB905019])	device / Miniature c	ircuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-0
Built-in depth	mm	70.5
Release characteristic		Z
Number of poles (total)		1
Number of protected poles		1
Rated current	А	2
Rated voltage	V	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	0
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	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
Power loss	W	3.7
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
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
Explosion-proof		No