DATASHEET - FAZ-C16/1

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



Part no.	FAZ-C16/1	Powering Business Worldwic	
EL Number (Norway)	278561 1695154		
General specifications			
Product name		Eaton Moeller series xEffect - FAZ MCB	
Part no.		FAZ-C16/1	
EAN		4015082785611	
Product Length/Depth		80 millimetre	
Product height		75.5 millimetre	
Product width		17.7 millimetre	
Product weight		0.11 kilogram	
Compliances		UL CSA09 (with supplementary protector only) RoHS conform	
Certifications		UL (Category Control Number QVNU2, QVNU8) IEC/EN 60898 CSA (Class No. 3215-30) North America (UL recognized, CSA certified) CE marking CSA (File No. 204453) UL (File No. 217451) CSA-C22.2 No. 235 IEC/EN 60947-2 UL 1077 IEC 61373 EN45545-2	
Product Tradename		xEffect - FAZ	
Product Type		МСВ	
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		С	
Release characteristic		С	
Amperage Rating		16 A	
Туре		FAZ	
		Miniature circuit breaker	
Technical Data - Electrical			
Voltage type		AC	
Voltage rating		240 V AC / 415 V AC	
Voltage rating at DC		60 V DC (per pole)	
Voltage rating (IEC/EN 60898-1)		240 V AC	
Voltage rating (UL)		277 V	
Voltage rating (UL CSA 13)		277 V AC; 48 V DC	
Rated operational voltage (Ue) - max		230 V	
Operational voltage (IEC/EN 60947-2) - max		254 V AC	
Rated insulation voltage (Ui)		440 V	
Rated impulse withstand voltage (Uimp)		4 kV	
Frequency rating - min		50 Hz	
Frequency rating - max		60 Hz	
Rated switching capacity (IEC/EN 60947-2) at ma	ax voltage rating	10 kA	
Rated switching capacity (IEC/EN 60947-2)		15 kA	
Rated switching capacity (IEC/EN 60898-1)		10 kA	

Operational switching capacity

7.5 kA

Breaking capacity	10 kA (UL1077)
Rated service short-circuit breaking capacity (IEC/EN 60898-1)	7.5 kA
Rated service short-circuit breaking capacity (IEC/EN 60947-2)	7.5 kA
Rated short-circuit breaking capacity (EN 60898) at 230 V	10 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	10 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	15 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	15 kA
Admissible back-up fuse - max	125 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	III
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
	UL/CSA Type: - IP40 (when fitted)
	IP20 (IEC)
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)	16 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	2.2 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.
	sees not apply, only and only of switchiged noted 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.
10.11 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.
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

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		C
Number of poles (total)		1
Number of protected poles		1
Rated current	А	16
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	10
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	15
Frequency	Hz	50 - 60
Power loss	W	2.3
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