

## Miniature circuit breaker (MCB), 20 A, 1p, characteristic: K

**Part no.** FAZ-K20/1  
**278600**

**EL Number**  
**(Norway)** 1695317

General specifications		
Product name		Eaton Moeller series xEffect - FAZ MCB
Part no.		FAZ-K20/1
EAN		4015082786007
Product Length/Depth		80 millimetre
Product height		75.5 millimetre
Product width		17.7 millimetre
Product weight		0.111 kilogram
Compliances		UL CSA09 (with supplementary protector only) RoHS conform
Certifications		CSA-C22.2 No. 235 IEC/EN 60947-2 CE marking CSA (File No. 204453) UL 1077 IEC/EN 60898 North America (UL recognized, CSA certified) UL (File No. E177451) CSA (Class No. 3215-30) UL (Category Control Number QVNU2, QVNU8) 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		K
Release characteristic		K
Amperage Rating		20 A
Type		FAZ Miniature circuit breaker
Technical Data - Electrical		
Voltage type		AC
Voltage rating		240 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) - max		230 V
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)		10 kA
Operational switching capacity		7.5 kA
Rated short-circuit breaking capacity (EN 60898) at 230 V		0 kA
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
Rated short-circuit breaking capacity (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		III
Pollution degree		2
Direction of incoming supply		As required
<b>Technical Data - Mechanical</b>		
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
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Rated operational current for specified heat dissipation (In)		20 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		4 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
<b>Additional information</b>		
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		K
Number of poles (total)		1
Number of protected poles		1
Rated current	A	20
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 $I_{cn}$ according to EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity $I_{cu}$ according to IEC 60947-2 at 230 V	kA	10
Rated short-circuit breaking capacity $I_{cu}$ according to IEC 60947-2 at 400 V	kA	10
Frequency	Hz	50 - 60
Power loss	W	4
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	mm <sup>2</sup>	1 - 25
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25
Explosion-proof		No