

Miniature circuit breaker (MCB), 20 A, 3p, characteristic: K

Part no. **FAZ-K20/3**
 278912
EL Number **1695345**
(Norway)

General specifications	
Product name	Eaton Moeller series xEffect - FAZ MCB
Part no.	FAZ-K20/3
EAN	4015082789121
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	54 millimetre
Product weight	0.334 kilogram
Compliances	UL CSA09 (with supplementary protector only) RoHS conform
Certifications	CSA (Class No. 3215-30) UL (File No. E177451) CSA (File No. 204453) IEC/EN 60898 IEC/EN 60947-2 North America (UL recognized, CSA certified) UL (Category Control Number QVNU2, QVNU8) CSA-C22.2 No. 235 CE marking UL 1077 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	Three-pole
Number of poles (total)	1
Number of poles (protected)	1
Tripping characteristic	K
Release characteristic	K C
Amperage Rating	10 A
Type	FAZ Miniature circuit breaker
Technical Data - Electrical	
Voltage type	AC AC/DC
Voltage rating	240 V AC / 415 V AC
Voltage rating at DC	60 V DC (per pole)
Voltage rating (UL CSA 13)	480 Y/277 V AC
Rated operational voltage (Ue) - max	400 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	6 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	6 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	0 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	0 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		3
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 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 mm ² (2x)
Terminal capacity (control cable)		25 mm ² (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)		20 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		12 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
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, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecI@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	10
Rated voltage	V	400
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	6

Voltage type		AC
Rated short-circuit breaking capacity I _{cn} according to EN 60898 at 400 V	kA	6
Rated short-circuit breaking capacity I _{cu} according to IEC 60947-2 at 230 V	kA	0
Rated short-circuit breaking capacity I _{cu} according to IEC 60947-2 at 400 V	kA	0
Frequency	Hz	50 - 60
Power loss	W	12
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		3
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm ²	1 - 25
Connectable conductor cross section solid-core	mm ²	1 - 25
Explosion-proof		No