

Miniature circuit breaker (MCB), 20 A, 4p, characteristic: B

Part no. FAZ-B20/4
279036
EL Number 1695134
(Norway)

General specifications		
Product name		Eaton Moeller series xEffect - FAZ MCB
Part no.		FAZ-B20/4
EAN		4015082790363
Product Length/Depth		80 millimetre
Product height		75.5 millimetre
Product width		72 millimetre
Product weight		0.445 kilogram
Compliances		RoHS conform
Certifications		IEC/EN 60898 IEC/EN 60947-2 IEC 61373 EN45545-2
Product Tradename		xEffect - FAZ
Product Type		MCB
Product Sub Type		None
Delivery program		
Application		Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles		Four-pole
Number of poles (total)		4
Number of poles (protected)		4
Tripping characteristic		B
Release characteristic		B
Amperage Rating		20 A
Type		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)		415 V AC
Voltage rating (UL)		480Y/277 V
Rated operational voltage (Ue) - max		400 V
Operational voltage (IEC/EN 60947-2) - max		440 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 max 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		4
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		IP40 (when fitted) IP20
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		12.8 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 Concurrently switching N-neutral
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		B
Number of poles (total)		4
Number of protected poles		4
Rated current	A	20
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	10
Voltage type		AC

Rated short-circuit breaking capacity I_{cn} according to EN 60898 at 400 V	kA	10
Rated short-circuit breaking capacity I_{cu} according to IEC 60947-2 at 230 V	kA	15
Rated short-circuit breaking capacity I_{cu} according to IEC 60947-2 at 400 V	kA	15
Frequency	Hz	50 - 60
Power loss	W	10.5
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		Yes
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4
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