

## Miniature circuit breaker (MCB), 50 A, 3p, characteristic: K

**Part no.** FAZ-K50/3  
**278916**  
**EL Number** 1695349  
**(Norway)**

General specifications	
Product name	Eaton Moeller series xEffect - FAZ MCB
Part no.	FAZ-K50/3
EAN	4015082789169
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	54 millimetre
Product weight	0.367 kilogram
Compliances	UL CSA09 (with supplementary protector only) RoHS conform
Certifications	North America (UL recognized, CSA certified) CSA-C22.2 No. 235 CE marking UL (File No. E177451) CSA (Class No. 3215-30) UL 1077 UL (Category Control Number QVNU2, QVNU8) IEC/EN 60898 IEC/EN 60947-2 CSA (File No. 204453) 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)	3
Number of poles (protected)	3
Tripping characteristic	K
Release characteristic	K
Amperage Rating	50 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 (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	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

#### 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 IP20 (IEC) UL/CSA Type: - IP40 (when fitted)
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 (I <sub>n</sub> )		50 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		15 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) (ecl@ss13-27-14-19-01 [AAB905019])

Built-in depth	mm	70.5
Release characteristic		K
Number of poles (total)		3
Number of protected poles		3
Rated current	A	50
Rated voltage	V	400
Rated insulation voltage U <sub>i</sub>	V	440
Rated impulse withstand voltage U <sub>imp</sub>	kV	4
Rated short-circuit breaking capacity I <sub>cn</sub> 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	14.8
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 <sup>2</sup>	1 - 25
Connectable conductor cross section solid-core	mm <sup>2</sup>	1 - 25
Explosion-proof		No