

Miniature circuit breaker (MCB), 50 A, 2p, characteristic: C, DC

Part no. FAZ-C50/2-DC
279145

EL Number
(Norway) 1691508

Product name	Eaton Moeller series xEffect - FAZ-DC MCB
Part no.	FAZ-C50/2-DC
EAN	4015082791452
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	36 millimetre
Product weight	0.245 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 EN45545-2 IEC 61373
Product Tradename	xEffect - FAZ-DC
Product Type	MCB
Product Sub Type	None
Application	Switchgear for DC applications
Number of poles	Two-pole
Number of poles (total)	2
Number of poles (protected)	2
Tripping characteristic	C
Release characteristic	C
Amperage Rating	50 A
Type	FAZ-DC Miniature circuit breaker
Voltage type	DC
Voltage rating at DC	250 V DC (per pole)
Rated operational voltage (Ue) - max	250 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
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	100 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	III
Pollution degree	2
Direction of incoming supply	Polarity dependent
Frame	45 mm
Enclosure width	80 mm
Width in number of modular spacings	2
Built-in depth	70.5 mm

Mounting width		17.5 mm
Mounting width per pole		17.5 mm
Mounting Method		Top-hat rail IEC/EN 60715
Mounting position		As required
Degree of protection		IP20 IP40 (when fitted)
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
Rated operational current for specified heat dissipation (In)		50 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		9.9 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
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-DC

Technical data ETIM 8.0

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)
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Built-in depth	mm	70.5
Release characteristic		C
Number of poles (total)		2
Number of protected poles		2
Rated current	A	50
Rated voltage	V	250
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		DC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	10
Frequency	Hz	50 - 60
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		2
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