DATASHEET - FAZ-D6/1

Miniature circuit breaker (MCB), 6 A, 1p, characteristic: D



Part no.	FAZ-D6/1
	278578
EL Number	1695213
(Norway)	

General specifications	
Product name	Eaton Moeller series xEffect - FAZ MCB
Part no.	FAZ-D6/1
EAN	4015082785789
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	17.7 millimetre
Product weight	0.109 kilogram
Compliances	UL CSA09 (with supplementary protector only)
	RoHS conform
Certifications	IEC/EN 60947-2 UL (File No. E177451) North America (UL recognized, CSA certified) UL 1077 IEC/EN 60898 UL (Category Control Number QVNU2, QVNU8) CE marking CSA (Class No. 3215-30) CSA-C22.2 No. 235 CSA (File No. 204453) IEC 61373 EN45545-2
Product Tradename	xEffect - FAZ
Product Type	МСВ
Product Sub Type	None
Catalog Notes	Magnetic range for higher startup inrush levels that are usually seen in motors and transformers, and other high inductive systems.
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	D
Release characteristic	D
Amperage Rating	6 A
Туре	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)	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)	15 kA
Operational switching capacity	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	
Selectivity class	125 A gL/gG 3
Lifespan, electrical	
Overvoltage category	10000 operations
	2
Pollution degree	
Direction of incoming supply	As required
Technical Data - Mechanical	
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 (IEC) UL/CSA Type: - 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 mm² (2x)
Terminal capacity (control cable)	25 mm² (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)	6 A
Heat dissipation per pole, current-dependent	0 W
Heat dissipation per pole, current-dependent	0 W
Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent	0 W 1.5 W
Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent	0 W 1.5 W 0 W
Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity	0 W 1.5 W 0 W 0 W
Heat dissipation per pole, current-dependent Image: Current-dependent Equipment heat dissipation, current-dependent Image: Current-dependent Static heat dissipation, non-current-dependent Image: Current-dependent Heat dissipation capacity Image: Current-dependent Ambient operating temperature - min Image: Current-dependent	0 W 1.5 W 0 W 0 W 0 W -25 °C
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10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
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	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		D
Number of poles (total)		1
Number of protected poles		1
Rated current	А	6
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	10
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	10
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	15
Frequency	Hz	50 - 60
Power loss	W	1.2
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	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25
Explosion-proof		No