## Miniature circuit breaker (MCB), 10 A, 3p, characteristic: B



Part no. FAZ-B10/3 278843 EL Number 1695121

(Norway)

(Norway) General specifications	
Product name	Eaton Moeller series xEffect - FAZ MCB
Part no.	FAZ-B10/3
EAN	4015082788438
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	54 millimetre
Product weight	0.333 kilogram
Compliances	UL CSA09 (with supplementary protector only)
	RoHS conform
Certifications	CSA-C22.2 No. 235 IEC/EN 60947-2 UL (File No. E177451) North America (UL recognized, CSA certified) IEC/EN 60898 UL 1077 CE marking CSA (File No. 204453) UL (Category Control Number QVNU2, QVNU8) CSA (Class No. 3215-30) 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	В
Release characteristic	В
Amperage Rating	10 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 (IEC/EN 60898-1)	415 V AC
Voltage rating (UL)	480Y/277 V
Voltage rating (UL CSA 13)	480 Y/277 V AC
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

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Breaking capacity		A (UL1077)
Rated service short-circuit breaking capacity (IEC/EN 60898-1)	7.5 k	
Rated service short-circuit breaking capacity (IEC/EN 60947-2)	7.5 k	
Rated short-circuit breaking capacity (EN 60898) at 230 V	10 kA	
Rated short-circuit breaking capacity (EN 60898) at 400 V	10 k/	A
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	15 k/	A
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	15 k/	A
Admissible back-up fuse - max	125 /	A gL/gG
Selectivity class	3	
Lifespan, electrical	1000	00 operations
Overvoltage category	III	
Pollution degree	2	
Direction of incoming supply	As re	equired
Technical Data - Mechanical		
Frame	45 m	nm
Enclosure width	80 m	nm
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	Тор-	hat rail IEC/EN 60715
Mounting position	As re	equired
Degree of protection	IP40	(IEC) ((when fitted) SSA Type: -
Terminals (top and bottom)	Twin	n-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mn	m²
Connectable conductor cross section (solid-core) - max	25 m	mm²
Connectable conductor cross section (multi-wired) - min	1 mn	n²
Connectable conductor cross section (multi-wired) - max	25 m	mm²
Terminal capacity of screw terminals for main cable	10 m	nm² (2x)
Terminal capacity (control cable)	25 m	mm² (1x)
Terminal protection	Fing	er and hand touch safe, DGUV VS3, EN 50274
Busbar material thickness	0.8 m	nm - 2 mm
Design verification as per IEC/EN 61439 - technical data		
Rated operational current for specified heat dissipation (In)	10 A	
Heat dissipation per pole, current-dependent	0 W	
Equipment heat dissipation, current-dependent	5.9 V	N
Static heat dissipation, non-current-dependent	0 W	
Heat dissipation capacity	0 W	
Ambient operating temperature - min	-25 °	PC C
Ambient operating temperature - max	75 °C	C
Design verification as per IEC/EN 61439		
10.2.2 Corrosion resistance	Mee	ets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		ets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		ets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		ets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		ets the product standard's requirements.
10.2.5 Lifting		s not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		s not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		ets the product standard's requirements.
10.3 Degree of protection of assemblies		s not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		ets the product standard's requirements.
10.4 Clearances and creepage distances  10.5 Protection against electric shock		s not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		s not apply, since the entire switchgear needs to be evaluated.
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10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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	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		В
Number of poles (total)		3
Number of protected poles		3
Rated current	Α	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	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	5.5
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	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25
Explosion-proof		No