DATASHEET - FAZ-C20/2-NA

Miniature circuit breaker (MCB), 20 A, 2p, characteristic: C



FAZ-C20/2-NA 102171

General specifications	
Product name	Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB
Part no.	FAZ-C20/2-NA
EAN	4015081020478
Product Length/Depth	105 millimetre
Product height	75.5 millimetre
Product width	35.4 millimetre
Product weight	0.243 kilogram
Compliances	RoHS conform
Certifications	UL 489 CSA-C22.2 No. 5-09 Specially designed for North America, suitable as BCPD UL 489, CSA C22.2 No. 5 CSA (Class No. 1432-01) CE marking IEC 60947-2 UL (File No. E235139) IEC/EN 60947-2 CSA (File No. 204453) UL (Category Control Number DIVQ) North America (UL listed, CSA certified) EN45545-2 IEC 61373
Product Tradename	xEffect - FAZ-NA, FAZ-RT
Product Type	МСВ
Product Sub Type	None
Delivery program	
Application	Feeder circuits, branch circuits Switchgear for export to North America (UL-listed)
Number of poles	Two-pole
Number of poles (total)	2
Number of poles (protected)	2
Tripping characteristic	С
Release characteristic	C
Amperage Rating	20 A
Туре	FAZ-NA Miniature circuit breaker
Technical Data - Electrical	
Voltage type	AC
Voltage rating	277 V AC / 480 V AC
Voltage rating at DC	60 V DC
Voltage rating (IEC/EN 60947-2)	440 V
Voltage rating (UL)	480Y/277 V
Rated operational voltage (Ue) - max	415 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
Breaking capacity	14 kA (UL489)
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	15 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	15 kA
Selectivity class	3

Lifespan, electrical	20000 operations
Overvoltage category	
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm
Enclosure width	105 mm
Width in number of modular spacings	2
Built-in depth	70.5 mm
Mounting width	17.7 mm
Mounting width per pole	17.7 mm
Mounting Method	Top-hat rail IEC/EN 60715
Mounting position	As required
Degree of protection	IP40 (when fitted) IP20 (IEC) IP20 UL/CSA Type: -
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 protection	Finger and hand touch safe, DGUV VS3, EN 50274
Tightening torque Design verification as per IEC/EN 61439 - technical data	Max. 2.4 Nm UL: 2.4 Nm (21 lb-in) for AWG 18 - AWG 12 UL: 4 Nm (36 lb-in) for AWG 6 UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8
Rated operational current for specified heat dissipation (In)	20 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	5.8 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
lesign verification as per IEC/EN 61439	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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 l 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
Functions	Current limiting circuit breaker
Special features	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
Used with	FAZ-NA 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	mi	im 7	70.5
Release characteristic		(C
Number of poles (total)		2	2
Number of protected poles		1	2
Rated current	A		20
Rated voltage	V	4	415
Rated insulation voltage Ui	V	4	440
Rated impulse withstand voltage Uimp	kV	V	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kΔ	A (0
Voltage type		1	AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kΑ	A (0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$	kΑ	д	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	kΔ	۹ ⁽	15
Frequency	Hz	z ł	50 - 60
Power loss	W	/ 6	6.6
Current limiting class		3	3
Flush-mounted installation		I	No
Concurrently switching neutral conductor		I	No
Over voltage category		3	3
Pollution degree		2	2
Additional equipment possible		Y	Yes
Width in number of modular spacings		2	2
Degree of protection (IP)		1	IP20
Ambient temperature during operating	°C	с .	-25 - 75
Connectable conductor cross section multi-wired	m	ım² í	1 - 25
Connectable conductor cross section solid-core	m	im² í	1 - 25
Explosion-proof		1	No