DATASHEET - FAZ-S3/1

Miniature circuit breaker (MCB) 3 A 1n characteristic: S



Minia	Miniature circuit breaker (MCB), 3 A, 1p, characteristic: S			
Part n EL Nu (Norw	278608 mber 1695365		Powering Busin	iess Worldwide
General specifications				
Product name		Eaton N	Moeller series xEffect - FAZ MCB	
Part no.		FAZ-S3	3/1	
EAN		4015082	2786083	
Product Length/Depth		80 millir	metre	
Product height		75.5 mil	llimetre	
Product width		17.7 mil	llimetre	
Product weight		0.112 ki	ilogram	
Compliances			\09 (with supplementary protector only) conform	
Certifications		IEC/EN UL 1077 CSA-C2 CE mar CSA (CI UL (Cat North A IEC/EN CSA (FI EN4554 IEC 613	7 22.2 No. 235 king lass No. 3215-30) tegory Control Number QVNU2, QVNU8) America (UL recognized, CSA certified) 60947-2 ile No. 204453) 15-2 873	
Product Tradename		xEffect	- FAZ	
Product Type		МСВ		
Product Sub Type		None		
Delivery program				
Application		Switch	n circuits, not as BCPD gear for industrial and advanced commercial applicatio - Switchgear for industrial and advanced commercial a	
Number of poles		Single-	pole	
Number of poles (total)		1		
Number of poles (protected)		1		
Tripping characteristic		S		
Release characteristic		Other		
Amperage Rating		3 A		
Туре		FAZ Miniatu	ure circuit breaker	
Technical Data - Electrical				
Voltage type		AC		
Voltage rating			AC / 415 V AC	
Voltage rating at DC			C (per pole)	
Voltage rating (UL CSA 13)			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)	10 kA		
Operational switching capacity		7.5 kA		
Rated short-circuit breaking capacity (E	N 60898) at 230 V	0 kA		
Rated short-circuit breaking capacity (E	N 60898) at 400 V	0 kA		
Rated short-circuit breaking capacity (IE	EC 60947-2) at 230 V	10 kA		
Rated short-circuit breaking capacity (IE	EC 60947-2) at 400 V	10 kA		

Admissible back-up fuse - max

125 A gL/gG

Salaativity alaga	3
Selectivity class Lifespan, electrical	3 10000 operations
Overvoltage category Pollution degree	2
Pollution degree Direction of incoming supply	As required
	Astequieu
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	UL/CSA Type: - IP20 IP20 (IEC) 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 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)	3 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	1.4 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
Design 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.
	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	is the parter bullder a responsibility.
10.9.4 lesting of enclosures made of insulating material 10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

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 Other Number of poles (total) 1 Number of protected poles 1 Rated current А 3 v Rated voltage 230 440 Rated insulation voltage Ui v Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kΑ 0 Voltage type AC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kΑ 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 w Power loss 1.4 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 °C -25 - 75 Ambient temperature during operating Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25 Explosion-proof No