DATASHEET - FAZ-S20/2



Π	Miniature circuit breaker (MCB), 20 A, 2p, characteristic: S					
	Part no.	FAZ-S20/2 278812			Powering Business World	
	EL Number Norway)	1695381				
General specifications						
Product name				Eaton Moeller series xEffect - FAZ	MCB	
Part no.				FAZ-S20/2		
EAN				4015082788124		
Product Length/Depth				80 millimetre		
Product height				75.5 millimetre		
Product width				36 millimetre		
Product weight				0.222 kilogram		
Compliances				UL CSA09 (with supplementary pro RoHS conform	tector only)	
Certifications				IEC/EN 60898 UL 1077 UL (File No. E177451) IEC/EN 60947-2 CSA-C22.2 No. 235 UL (Category Control Number QVN CE marking CSA (Class No. 3215-30) CSA (File No. 204453) North America (UL recognized, CS/ IEC 61373 EN45545-2		
Product Tradename				xEffect - FAZ		
Product Type				MCB		
Product Sub Type				None		
Delivery program						
Application				Branch circuits, not as BCPD Switchgear for industrial and adva xEffect - Switchgear for industrial a	nced commercial applications and advanced commercial applications	
Number of poles				Two-pole		
Number of poles (total)				2		
Number of poles (protected)				2		
Tripping characteristic				S		
Release characteristic				Other		
Amperage Rating				20 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)				480 Y/277 V AC; 96 V DC		
Rated operational voltage (Ue) -	max			230 V		
Rated insulation voltage (Ui)				440 V		
Rated impulse withstand voltage	e (Uimp)			4 kV		
Frequency rating - min				50 Hz		
Frequency rating - max				60 Hz		
Rated switching capacity (IEC/E	N 60947-2)			10 kA		
Operational switching capacity				7.5 kA		
Rated short-circuit breaking cap	acity (EN 60898) at 23	80 V		0 kA		
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Rated short-circuit breaking capacity (EN 60898) at 400 $\rm V$ Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

Rated short-circuit breaking capacity (IEC 60947-2) at 400 $\rm V$

Admissible back-up fuse - max

0 kA

10 kA

10 kA

125 A gL/gG

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10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effectsMeets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.3 Degree of protection of assembliesMeets the product standard's requirements.	10.2.2 Corrosion resistance	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 Ooes not apply, since the entire switchgear needs to be evaluated.	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesGet and and and and an apply, since the entire switchgear needs to be evaluated.	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of assembliesDoes not apply, since the entire switchgear needs to be evaluated.	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
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.	10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
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.	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of assemblies 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.
10.4 Clearances and creepage distances 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.	10.5 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.	10.6 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.	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors Is the panel builder's responsibility.	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	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.	10.9.4 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 w provide heat dissipation data for the devices.	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 observed.	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 Other Number of poles (total) 2 Number of protected poles 2 Rated current А 20 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 4.7 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 °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