DATASHEET - FAZ-C32/2-DC



Miniature circuit breaker (MCB), 32 A, 2p, characteristic: C, DC

Part no. FAZ-C32/2-DC

279143

EL Number 1691506

(Norway)

(NUI Way)	
General specifications	
Product name	Eaton Moeller series xEffect - FAZ-DC MCB
Part no.	FAZ-C32/2-DC
EAN	4015082791438
Product Length/Depth	80 millimetre
Product height	75.5 millimetre
Product width	36 millimetre
Product weight	0.237 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 EN45545-2 IEC 61373
Product Tradename	xEffect - FAZ-DC
Product Type	мсв
Product Sub Type	None
Delivery program	
Application	Switchgear for DC applications
Number of poles	Two-pole
Number of poles (total)	2
Number of poles (protected)	2
Tripping characteristic	С
Release characteristic	С
Amperage Rating	32 A
Туре	Miniature circuit breaker
	FAZ-DC
Technical Data - Electrical	
Voltage type	DC
Voltage rating at DC	250 V DC (per pole)
Rated operational voltage (Ue) - max	250 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
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	10 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	10 kA
Admissible back-up fuse - max	100 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	III
Pollution degree	2
Direction of incoming supply	Polarity dependent
Technical Data - Mechanical	
Frame	45 mm
Enclosure width	80 mm
Width in number of modular spacings	2
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Manada a cidal	475
Mounting width	17.5 mm
Mounting width per pole	17.5 mm
Mounting Method	Top-hat rail IEC/EN 60715
Mounting position	As required
Degree of protection	IP40 (when fitted) IP20
Terminals (top and bottom)	Twin-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mm²
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 mm ² (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)	32 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	8.1 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.
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	FAZ-DC 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

Bulls in depth Release characteristic Rumber of poles (total) Number of protes (total) Rated current Rated current Rated workage Rated workage Rated workage Rated workage Rated workage Rated short-circuit breaking capacity Icn according to EN 6898 at 230 V Rated short-circuit breaking capacity Icn according to EN 6898 at 230 V Rated short-circuit breaking capacity Icn according to EN 6898 at 230 V Rated short-circuit breaking capacity Icn according to EN 6898 at 230 V Rated short-circuit breaking capacity Icn according to EN 6898 at 230 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 6898 at 240 V Rated short-circuit breaking capacity Icn according to EN 689	Electric engineering, automation, process control engineering / Electrical installation [AAB905019])	on, device / Miniature c	ircuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01
Number of poles (total) 2 Number of protected poles 2 Rated current A 32 Rated voltage V 250 Rated insulation voltage Uin V 440 Rated impulse withstand voltage Uinp KV 4 Rated short-circuit breaking capacity (cn according to EN 60888 at 230 V KA 0 Voltage type DC 0 Rated short-circuit breaking capacity (cn according to EN 60888 at 400 V KA 0 Rated short-circuit breaking capacity (cu according to EN 60888 at 400 V KA 0 Rated short-circuit breaking capacity (cu according to EN 60889 at 400 V KA 0 Rated short-circuit breaking capacity (cu according to EC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity (cu according to EC 60947-2 at 200 V KA 0 Frequency H2 50 - 60 Fower loss S 3 Current limiting class S 3 Flush-mounted installation S No Concurrently switching neutral conductor S No	Built-in depth	mm	70.5
Number of protected poles 2 Rated current A 32 Rated voltage V 250 Rated insulation voltage Uim V 440 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 0 Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icu according to EN 60898 at 400 V kA 10 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 230 V kA 10 Rated short-circuit breaking capacity Icu according to EN 60894-72 at 2400 V kA 10 Reted short-circuit breaking capacity Icu according to EN 60894-72 at 2400 V kA 10 Reted short-circuit breaking capacity Icu according to EN 60894-72 at 2400 V kA 10 Power loss No 8.8 10 Current limiting class No No Current limiting class No 2 Pollution degree 2 2 Voltage type Yes No	Release characteristic		С
Rated current A 32 Rated voltage V 250 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 0 Voltage type DC DC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 0 Rated short-circuit breaking capacity Icn according to IEC 60947-2 at 230 V kA 10 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 230 V kA 10 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 200 V kA 10 Power Ious Comment in the presenting capacity Icu according to IEC 60947-2 at 400 V kA 10 Current limiting class No 8 8 8 8 Current limiting class No No 9 No 9 10 No	Number of poles (total)		2
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Rated impulse withstand voltage Ulimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kA 0 Voltage type DC DC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kA 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 Power loss W 6.8 Current limiting class W 6.8 Flush-mounted installation No No Concurrently switching neutral conductor No No Over voltage category 3 3 Pollution degree 2 No Additional equipment possible Yes Width in number of modular spacings Yes Degree of protection (IP) IP20 Ambient temperature during operating "C 25 - 75 Connectable conductor cross section solid-core mm² 1 - 25	Rated voltage	V	250
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V Voltage type Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V Rated Short-circuit breaking capacity Icu according to IEC 6094	Rated insulation voltage Ui	V	440
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Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	Voltage type		DC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
Frequency Power loss W 6.8 Current limiting class Substituting neutral conductor Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Pegree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Hz 50 - 60 No 6.8 3 Current limiting class No No No Ve 2 2 4 4 4 5 6 7 Connectable conductor cross section multi-wired Mm² 1 - 25 Connectable conductor cross section solid-core Mm² 1 - 25	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	10
Power loss Current limiting class Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core W 6.8 3 Current limiting class No No No Ves Yes Yes Yes Yes 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	10
Current limiting class Flush-mounted installation Concurrently switching neutral conductor No Over voltage category Over voltage category 3 Pollution degree 2 Additional equipment possible Ves Width in number of modular spacings Vidth in number of modular spacings Pegree of protection (IP) Pego Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core 3 Pollution degree Pes Pes Pes Pes Pes Pes Pes Pes Pes P	Frequency	Hz	50 - 60
Flush-mounted installation Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core No No No No Pollution degree 2 2 4 2 7 8 1 1 1 1 1 1 1 1 1 1 1 1	Power loss	W	6.8
Concurrently switching neutral conductor Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Connectable conductor cross section solid-core No No No No 1 2 2 4 Pes Yes Pes P20 -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 The section of the sect	Current limiting class		3
Over voltage category 3 Pollution degree 2 Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired Connectable conductor cross section solid-core 3 Pellution degree 2 Yes Yes Connectable conductor spacings C -25 - 75 Connectable conductor cross section solid-core mm² 1 - 25	Flush-mounted installation		No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 2 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	Concurrently switching neutral conductor		No
Additional equipment possible Width in number of modular spacings Degree of protection (IP) Ambient temperature during operating °C Connectable conductor cross section multi-wired Connectable conductor cross section solid-core Yes 1P20 -25 - 75 -25 - 75 -25 - 75 -25 - 75 -25 - 75	Over voltage category		3
Width in number of modular spacings Degree of protection (IP) 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	Pollution degree		2
Degree of protection (IP) 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	Additional equipment possible		Yes
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	Width in number of modular spacings		2
Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25	Degree of protection (IP)		IP20
Connectable conductor cross section solid-core mm ² 1 - 25	Ambient temperature during operating	°C	-25 - 75
	Connectable conductor cross section multi-wired	mm²	1 - 25
Explosion-proof No	Connectable conductor cross section solid-core	mm²	1 - 25
	Explosion-proof		No