DATASHEET - FAZ-C4/1-NA

Miniature circuit breaker (MCB), 4 A, 1p, characteristic: C



Part no.	FAZ-C4/1-NA
	102082
EL Number	1691571
(Norwav)	

(Norway)	
General specifications	
Product name	Eaton Moeller series xEffect - FAZ-NA, FAZ-RT MCB
Part no.	FAZ-C4/1-NA
EAN	4015081019588
Product Length/Depth	105 millimetre
Product height	75.5 millimetre
Product width	17.7 millimetre
Product weight	0.122 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 CSA (Class No. 1432-01) IEC 60947-2 CE marking CSA (File No. 204453) North America (UL listed, CSA certified) UL 489 UL (Category Control Number DIVQ) UL 489, CSA C22.2 No. 5 CSA-C22.2 No. 5-09 Specially designed for North America, suitable as BCPD UL (File No. E235139) EN45545-2 IEC 61373
Product Tradename	xEffect - FAZ-NA, FAZ-RT
Product Type	МСВ
Product Sub Type	None
Catalog Notes	Positioned for medium inrush startup currents to provide protection for small transformers and pilot devices.
Delivery program	
Application	Feeder circuits, branch circuits Switchgear for export to North America (UL-listed)
Number of poles	Single-pole
Number of poles (total)	1
Number of poles (protected)	1
Tripping characteristic	С
Release characteristic	С
Amperage Rating	4 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)	254 V
Voltage rating (UL)	277 V
Rated operational voltage (Ue) - max	240 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	10 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	
	45 mm
Frame Frame	45 mm
Enclosure width	105 mm
Width in number of modular spacings	1
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 Degree of protection	As required IP40 (when fitted) IP20 (IEC) IP20 UL/CSA Type: -
Terminals (top and bottom) Connectable conductor cross section (solid-core) - min	Twin-purpose terminals
Connectable conductor cross section (solid-core) - max	25 mm ²
Connectable conductor cross section (solid-core) - mix	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	UL: 2.4 Nm (21 lb-in) for AWG 18 - AWG 12
	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm
Design verification as per IEC/EN 61439 - technical data	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In)	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (ln) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W 0 W 0 W
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - max	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (ln) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W 0 W 0 W 0 W 2.5 °C 75 °C
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance	LL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W 2 C 75 °C Meets the product standard's requirements. Meets the product standard's requirements.
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W<
Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W -25 °C 75 °C Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements.
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Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0 W 1.4 W 0 W 0 W 0 W 0 W 0 W 0 W 0 W 0
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Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors	UL: 28 Nm (25 lb-in) for AWG 0 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 A 0W 1.4 W 0W 0W -25 °C 75 °C 75 °C 75 °C Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility.
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Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (In) Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3 Lerification of thermal stability of enclosures 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.8.2 Power-frequency electric strength 10.8.3 Impulse withstand voltage	UL: 2.8 Nm (25 lb-in) for AWG 10 - AWG 8 UL: 4 Nm (36 lb-in) for AWG 6 Max. 2.4 Nm 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
3
Additional equipment possible
Current limiting circuit breaker
Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
Miniature circuit breaker FAZ-NA

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])

Release duracteristic C Number of poles (total) I I Number of protected poles I I Rated current I I Rated current V I I Rated current V I I Rated short-circuit breaking current V I I Rated short-circuit breaking capacity len according to EN 60898 at 200 V V I I Notage type I I I I Rated short-circuit breaking capacity len according to EN 60898 at 200 V I I I Rated short-circuit breaking capacity len according to EN 60898 at 200 V I I I Rated short-circuit breaking capacity len according to EN 60898 at 200 V I I I Rated short-circuit breaking capacity len according to EN 60898 at 200 V I I I Rated short-circuit breaking capacity len according to IEC 60947-2 at 200 V I I I Rated short-circuit breaking capacity len according to IEC 60947-2 at 200 V I I I Frequeny <t< th=""><th></th><th></th><th></th></t<>			
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Aled current A A Rated urrent V 40 Rated insulation voltage Uimp V 40 Rated short-circuit breaking capacity Icn according to EN 60089 at 230 V V 40 Notage type C C A Rated short-circuit breaking capacity Icn according to EN 60098 at 400 V V A Rated short-circuit breaking capacity Icn according to EC 60947-2 at 230 V KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Prover los C KA 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 200 V KA 0 Prover los KA 0 0 Concurrent y writhing neutral conductor KA 0 0 Concurrent y switching neutral conductor KA 0 0 Additional equipment possible KA KA 0 Additional equipment possib	Number of poles (total)		1
Note Note <th< td=""><td>Number of protected poles</td><td></td><td>1</td></th<>	Number of protected poles		1
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Rated inpulse withs and voltage Uimp KV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 200 V KA 0 Nated short-circuit breaking capacity Icn according to EN 60898 at 400 V KA 0 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 200 V KA 0 Frequency KA 0 0 Power Ioss 0 0 0 Current limiting class V No 0 Concurrently switching neutral conductor V No No Over voltage category V No No Pollution degree V No No Additional equipment possible V No No Matient memperature during operating V No No Additional equipment possible V No No Matient memperature during operating V No No Additional equipment for Social multi-wired Social Social Modeline No	Rated voltage	V	240
Rated short-circuit breaking capacity len according to EN 60898 at 230 V KA 0 Voltage type AC Acconstruction of the KA 0 Rated short-circuit breaking capacity len according to EN 60989 at 400 V KA 0 Sc Rated short-circuit breaking capacity len according to EC 60947-2 at 230 V KA 0 Sc Prequency KA 0 Sc S	Rated insulation voltage Ui	V	440
Add Acconnectable conductor conserved on the formation of the following on the follow	Rated impulse withstand voltage Uimp	kV	4
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 15 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V 60 - 60 Prequency Cone 50 - 60 Power Ioss S 50 - 60 Current limiting class S S Flush-mounted installation S S Concurrently switching neutral conductor Mo S Pollution degree S S Additional equipment possible S S Widt hin number of modular spacings S S Anbient temperature during operating C S Anbient temperature during operating C S Concurcetable conductor cross section solid-core mm ² S	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 kA 5 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 5 Frequency L 50-60 Power loss VW 15 Current limiting class S 3 Flush-mounted installation VW No Concurrently switching neutral conductor VM No Pollution degree 2 3 Additional equipment possible VM S Widt hin number of modular spacings VM YM Degree of protection (IP) °C 2 Anhient temperature during operating °C 2 Connectable conductor cross section multi-wired °C 2 Connectable conductor cross section solid-core mm² 125	Voltage type		AC
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V KA 5 Frequency L 50 - 60 Power loss L W 1.5 Current limiting class S No S Flush-mounted installation M No S Concurrently switching neutral conductor M No S Over voltage category S S S Pollution degree S S S Additional equipment possible M Yes S With in number of modular spacings M Yes S Connectable conductor cross section multi-wired Mm² S S Connectable conductor cross section solid-core mm² 1-25	Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
Frequency Hz 5 - 60 Power loss W 1.5 Current limiting class S 3 Flush-mounted installation No No Concurrently switching neutral conductor M 3 Over voltage category No S Pollution degree S S Additional equipment possible Yes S Degree of protection (IP) Pol Pol Ambient temperature during operating C° C S S Connectable conductor cross section solid-core mm ² 1-25	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	15
Power loss W 1.5 Current limiting class 3 Flush-mounted installation M No Concurrently switching neutral conductor M So Power loss M No Over voltage category M So Pollution degree So So Additional equipment possible M Yes Degree of protection (IP) M So Ambient temperature during operating C° So Connectable conductor cross section multi-wired mm ² 125	Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	15
Current limiting class 3 Flush-mounted installation No Concurrently switching neutral conductor Mo Over voltage category S Pollution degree S Additional equipment possible Yes Width in number of modular spacings Yes Ambient temperature during operating °C Ambient temperature during operating °C Connectable conductor cross section multi-wired mm ² Instructure during solidi-core mm ²	Frequency	Hz	50 - 60
Flush-mounted installation No Concurrently switching neutral conductor No Over voltage category So Pollution degree So Additional equipment possible Yes Witch in number of modular spacings Pollution Degree of protection (IP) °C Ambient temperature during operating °C Connectable conductor cross section solid-core mm ² Installation mm ² Installation 125	Power loss	W	1.5
Concurrently switching neutral conductor Polle Mo Over voltage category 3 Pollution degree Polle Mo Additional equipment possible Yes Width in number of modular spacings Pol Pol Degree of protection (IP) Pol Pol Ambient temperature during operating Connectable conductor cross section multi-wired Mn² 125 Connectable conductor cross section solid-core mn² 125	Current limiting class		3
Over voltage category 3 Pollution degree 2 Additional equipment possible Mes Width in number of modular spacings Mes Degree of protection (IP) Mes Ambient temperature during operating C 25 - 75 Connectable conductor cross section solid-core mm² 1-25	Flush-mounted installation		No
Pollution degreePollution degreePollu	Concurrently switching neutral conductor		No
Additional equipment possibleYesWidth in number of modular spacings1Degree of protection (IP)°CAmbient temperature during operating°CConnectable conductor cross section multi-wiredmm²I - 25 - 75I - 25 - 75 - 75I - 25 - 75I - 26 - 75I - 27 - 75	Over voltage category		3
Width in number of modular spacings Image: Participation of modular spacings 1 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	Pollution degree		2
Degree of protection (IP) P20 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		1
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