DATASHEET - FAZ-C2,5/3N



Miniature circuit breaker (MCB), 2.5A, 3pole+N, type C characteristic

Powering Business Worldwide*

Part no. FAZ-C2,5/3N Catalog No. 278964 Alternate Catalog FAZ-C2.5/3N

No.

EL-Nummer 0001691123

(Norway)

Similar to illustration

Delivery program

Delivery program			
Basic function			Miniature circuit-breakers
Number of poles			3 pole+N
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	2.5
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Product range			FAZ

Technical data

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Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	15
Breaking capacity according to UL		kA	10 (UL1077)
Max operational voltage according to IEC/EN 60947-2		V AC	440
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	10
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		7,5 kA
Rated voltage according to IEC/EN 60898-1	Un	V AC	415
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA

Design verification as per IEC/EN 61439

Design vermeation as per 126/214 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	2.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	4.7
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	75
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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.

Technical data ETIM 7.0

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@ss10.0.1-27-14-19-01 [AAB905014])

Release characteristic C Number of poles (total) 4 Number of protected poles 3 Rated current 2 Rated voltage V Rated insulation voltage Uir V Rated injuste withstand voltage Uirn V Rated short-circuit breaking capacity (co EN 60898 at 230 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60898 at 400 V K Rated short-circuit breaking capacity (co EN 60894 r 2 at 200 V K College type B K Corrected breaking capacity (co EN 6084 r 2 at 200 V K Coursent limiting class S S Subtile for flush-mounte	(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Number of protected poles 3 Rated current A 25 Rated voltage V 40 Rated insulation voltage Ui V 40 Rated short-circuit breaking capacity Icn EN 60898 at 230 V K 4 Rated short-circuit breaking capacity Icn EN 60898 at 400 V K 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V K 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V K 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V K 10 Voltage type K 10 10 Voltage type K 10 10 Current limiting class S 50 60 Suitable for flush-mounted installation N N N Concurrently switching N-neutral Y 10 10 Over voltage category Y 2 10 Pollution degree Y Y Y Width in number of modular spacings Y 10 10 Built-in depth <	Release characteristic		С
Rated current A 2.5 Rated voltage V 400 Rated insulation voltage Ui V 440 Rated insulation voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 15 Voltage type AC AC Frequency AC 3 Current limiting class 3 3 Suitable for flush-mounted installation Yes 3 Concurrently switching N-neutral Yes 3 Over voltage category Yes 2 Pollution degree Yes 4 Additional equipment possible Yes With in number of modular spacings mm 70.5 Built-in depth mm 70.5 Degree of protection (IP) 25.75 Ambient temperature	Number of poles (total)		4
Rated voltage V 400 Rated insulation voltage Uin V 440 Rated inpulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 15 Voltage type kA 15 Current limiting class AC AC Suitable for flush-mounted installation Yes 3 Concurrently switching N-neutral Yes 3 Over voltage category Yes 3 Pollution degree Yes 3 Additional equipment possible Yes 4 Width in number of modular spacings Yes 4 Built-in depth Yes 4 Degree of protection (IP) Yes 4 Ambient temperature during operating Yes 4 Ambient temperature during operating </td <td>Number of protected poles</td> <td></td> <td>3</td>	Number of protected poles		3
Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 15 Voltage type LA 20 60 Current limiting class LA 3 60 Suitable for flush-mounted installation LA Yes Concurrently switching N-neutral Yes 2 Over voltage category Yes 2 Pollution degree Yes 2 Additional equipment possible Yes 4 Width in number of modular spacings Image: March and the properties of protection (IP) Image: March and the properties of the protection (IP) Image: March and the properties of the protection multi-wired Pol. 25-75 Connectable conductor cross section multi-wired Tes 25-75	Rated current	Α	2.5
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Voltage type Frequency Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired AC AC AC AC AC P 4 No No Yes 2 2 4 4 4 4 1 1 1 1 1 1 1 1 1	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Hz 50 - 60 3	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Ves Ves Ves	Voltage type		AC
Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired No Yes 2 4 4 70.5 P20 P20 P20 P20 P20 P20 P20 P2	Frequency	Hz	50 - 60
Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Yes Yes 4 Pollution degree mm 70.5 IP20 Pollution degree mm² 1 - 25	Current limiting class		3
Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Vector Ve	Suitable for flush-mounted installation		No
Pollution degree Additional equipment possible Width in number of modular spacings Width in number of modular spacings Built-in depth mm 70.5 Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired p 2 Yes 4 P 2 4 P 2 P 2 4 P 2 P 2 P 2	Concurrently switching N-neutral		Yes
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Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Ambient temperature during operating The section of the section multi-wired or the section multi-wired The section of the	Pollution degree		2
Built-in depth 70.5 Degree of protection (IP) P20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Additional equipment possible		Yes
Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired P20 Connectable conductor cross section multi-wired	Width in number of modular spacings		4
Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Built-in depth	mm	70.5
Connectable conductor cross section multi-wired mm² 1 - 25	Degree of protection (IP)		IP20
	Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25
	Connectable conductor cross section solid-core	mm²	1 - 25

Additional product information (links)

Temperature dependency, derating	https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table
	FAZ.pdf