DATASHEET - FAZ-C2,5/1

Part no.

Catalog No.

EL-Nummer

(Norway)



Miniature circuit breaker (MCB), 2.5A, 1p, type C characteristic

FAZ-C2,5/1

0001691080

278550

Eaton Catalog No. FAZ-C2.5/1



Similar to illustration

Technical data

Electrical			
Standards			IEC/EN 60947-2 IEC/EN 60898
Rated operational voltage	U _e	V	
	U _e	V AC	240/415
Rated voltage according to UL	Un	V AC	277
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	254
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	l _{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	240
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

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	2.5
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	1.5
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])

Number of poles (total) Image: state of the			
Number of protected poles Image: second	Release characteristic		С
Rade durinet A S Rade durinet V 30 Rade insulation voltage Uin V 40 Rated insulation voltage Uinp K 40 Rated short-circuit breaking capacity Icn EN 6089 at 230 V KA 10 Rated short-circuit breaking capacity Icn EN 6089 at 400 V KA 10 Rated short-circuit breaking capacity Icn EC 60947-2 at 230 V KA 10 Voltage type KA 5 5 Voltage type KA 5 5 Frequency KA 5 5 Concurrent limiting class KA 5 5 Suitable for flush-mounted installation K 5 6 Over voltage category K 5 6 5 Pollution degree K 5 5 6 5 6 With in number of modular spacings K K 5	Number of poles (total)		1
Rade voltage V 30 Raded voltage Uin V 40 Rated insulation voltage Uinp V 40 Rated short-circuit breaking capacity Icn EN 60989 at 230 V V 10 Rated short-circuit breaking capacity Icn EN 60989 at 400 V V 10 Rated short-circuit breaking capacity Icn EN 60989 at 400 V KA 10 Rated short-circuit breaking capacity Icn EN 60989 at 400 V KA 10 Notage type KA 10 10 Voltage type KA 10 10 Voltage type KA 10 10 Suitable for flush-mounted installation KA 10 10 Our voltage category KA 10 10 Pollution degree KA 10 10 Additional equipment possible KA 10 10 With in number of modular spacings KA 10 10 Built-in depth KA 10 10 10 Built-in dept for the during operating KA 10 10 <td< td=""><td>Number of protected poles</td><td></td><td>1</td></td<>	Number of protected poles		1
Atted insulation voltage Ui V 40 Rated insulation voltage Uinp KV 4 Rated insulation voltage Uinp KV 4 Rated short-circuit breaking capacity Icn EN 60898 at 20 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 10 Rated short-circuit breaking capacity Icn EC 60947-2 at 20 V KA 15 Rated short-circuit breaking capacity Icu EC 60947-2 at 400 V KA 16 Voltage type KA 10 10 Frequency KA 50-60 10 Current limiting class S0 50-60 10 Suitable for flush-mounted installation KA 3 10 Over voltage category KA 10 10 10 Voltage type KA 10 10 10 10 Outrent limiting class KA 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	Rated current	А	2.5
Rated impulse withstand voltage Uimp k k Rated short-circuit breaking capacity Ice K06989 at 230 V k I Rated short-circuit breaking capacity Ice K06989 at 230 V k I Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V k I Notage type K I I Voltage type K I I Frequency K I I I Suitable for flush-mouted installation K I I I I Over voltage category K I <td>Rated voltage</td> <td>V</td> <td>230</td>	Rated voltage	V	230
Rated short-circuit breaking capacity Icn EN 60898 at 200 V KA I Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA I Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA I Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA I Voltage type KA I I Voltage type KA I I Frequency KA I I Current limiting class I I I Suitable for flush-mounted installation I I I Over voltage category I I I I Pollution degree I I I I I Ratit in anuber of modular spacings I I I I I Built-in depth I I I I I I I Built-in depth I I I I I I I I I I I I I <t< td=""><td>Rated insulation voltage Ui</td><td>V</td><td>440</td></t<>	Rated insulation voltage Ui	V	440
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 1 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 5 Notage type KA 5 Voltage type KA 5 Frequency KA 5 Current limiting class KA 5 Suitable for flush-mounted installation KA 5 Over voltage category KA 5 Pollution degree KA 5 Built-in depth KA 5 Built-in depth Ma 5 Built-in depth F 5 Built-in depth F 5 Built-in depth F	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity lou IEC 60947-2 at 230 V KA 5 Rated short-circuit breaking capacity lou IEC 60947-2 at 400 V KA 5 Voltage type KA 6 Frequency KA 50-60 Current limiting class S 5 Suitable for flush-mounted installation MA 5 Over voltage category MA 5 Pollution degree MA 5 Additional equipment possible MA 5 With in number of modular spacings MA MA Built-in depth Ma 70 Degree of protection (IP) MA MA Athient temperature during operating Ca S	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 5 Voltage type C C Frequency Frequency 50-60 Current limiting class S S Suitable for flush-mounted installation S Fee Concurrently switching N-neutral S No Over voltage category S S Pollution degree S S Additional equipment possible S S Built-in depth Manuel S Degree of protection (IP) Manuel Manuel Anbient temperature during operating C S Anbient temperature during operating C S	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Voltage type AC Frequency 60 70 50	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Frequency Image: Prequency Current limiting class Image: Prequency Suitable for flush-mounted installation Image: Prequency Concurrently switching N-neutral Image: Prequency Over voltage category Image: Prequency Pollution degree Image: Prequency Additional equipment possible Image: Prequency Built-in depth Image: Prequency Degree of protection (IP) Image: Prequency Ambient temperature during operating Image: Prequency	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Current limiting class 3 Suitable for flush-mounted installation No Concurrently switching N-neutral No Over voltage category Sold Pollution degree 3 Additional equipment possible Yes With in number of modular spacings mm Built-in depth mm Degree of protection (IP) mm Ambient temperature during operating °C	Voltage type		AC
Suitable for flush-mounted installationMoConcurrently switching N-neutralNoOver voltage categorySiPollution degreeSAdditional equipment possibleYesWidth in number of modular spacingsmmBuilt-in depthNoDegree of protection (IP)CAmbient temperature during operating°CSi </td <td>Frequency</td> <td>Hz</td> <td>50 - 60</td>	Frequency	Hz	50 - 60
Concurrently switching N-neutral Mo Over voltage category 3 Pollution degree 2 Additional equipment possible 9 Width in number of modular spacings 6 6 Built-in depth 9 70 Degree of protection (IP) 6 120 Ambient temperature during operating °C 25-75	Current limiting class		3
Der voltage category3Pollution degree2Additional equipment possibleYesWidth in number of modular spacings1Built-in depthmmDegree of protection (IP)10Ambient temperature during operating°C	Suitable for flush-mounted installation		No
Pollution degree2Additional equipment possibleYesWidth in number of modular spacingsM1Built-in depthMm70.5Degree of protection (IP)C120.0Ambient temperature during operating°C25.75	Concurrently switching N-neutral		No
Additional equipment possible Yes Width in number of modular spacings 1 Built-in depth mm 70.5 Degree of protection (IP) I 1200 Ambient temperature during operating °C 25 - 75	Over voltage category		3
Width in number of modular spacings mm 1 Built-in depth mm 70.5 Degree of protection (IP) Mm IP20 Ambient temperature during operating °C 25 - 75	Pollution degree		2
Built-in depth mm 70.5 Degree of protection (IP) ID 20 Ambient temperature during operating Compared to the	Additional equipment possible		Yes
Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75	Width in number of modular spacings		1
Ambient temperature during operating °C -25 - 75	Built-in depth	mm	70.5
	Degree of protection (IP)		IP20
Connectable conductor cross section multi-wired mm ² 1 - 25	Ambient temperature during operating	°C	-25 - 75
	Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core mm ² 1 - 25	Connectable conductor cross section solid-core	mm²	1 - 25

Approvals

Approvais	
Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	277 VAC; 48 VDC
Degree of Protection	IEC: IP20; UL/CSA Type: -