DATASHEET - FAZT-C25/1N



Miniature circuit breaker (MCB), 25A, 1Np, C-Char, AC

Powering Business Worldwide*

Part no. FAZT-C25/1N Catalog No. 241044 Eaton Catalog No. FAZT-C25/1N EL-Nummer 0001666019 (Norway)

Similar to illustration

Technical data

				- 1
-	C)	tri		2
-	•		v	ш

Electrical			
Standards			IEC/EN 60947-2
Rated voltage according to IEC/EN 60947-2	U_{n}	V AC	240
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
Rated service short-circuit breaking capacity according to IEC/EN 60947-2	I _{cs}		12,5 kA
Max operational voltage according to IEC/EN 60947-2		V AC	254
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		7,5 kA
Max operational voltage DC according to IEC/EN 60947-2		V DC	60/pole
Rated voltage according to IEC/EN 60898-1	U_n	V AC	240
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA
Rated insulation voltage	Ui	V	440
Rated frequency	f	Hz	50/60
Characteristic			B, C, D
Direction of incoming supply			as required
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 10000
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	80
Mounting width per pole		mm	17.5
Mounting			Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Degree of Protection			IP20
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6
Terminal capacities		mm ²	1 - 25
Tightening torque of fixing screws		N/m	max. 2.4
Thickness of busbar material		mm	0.8 (exept N 0.5 SU)
Mounting position			As required

Design verification as per IEC/EN 61439

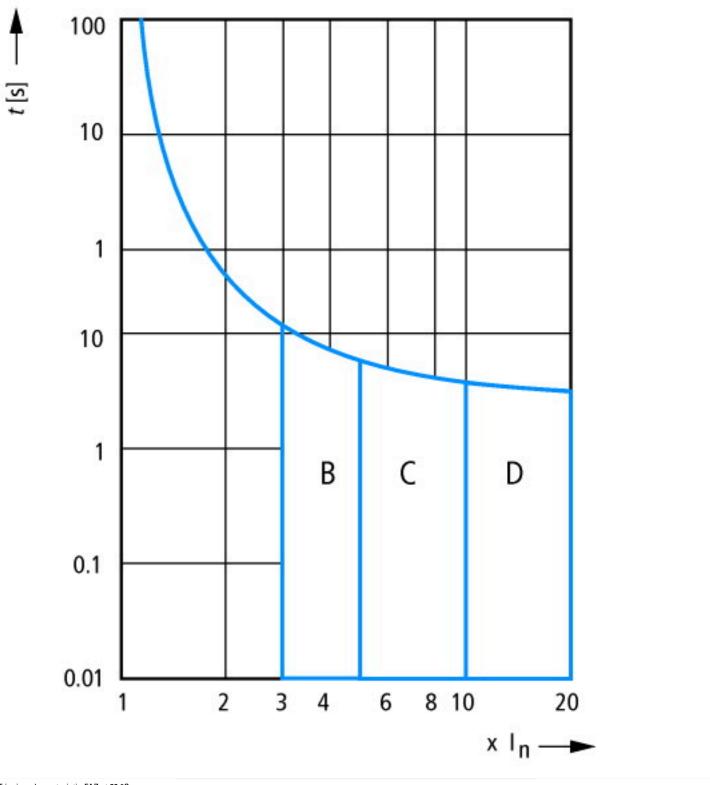
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	25
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	3.5
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation 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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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

Release characteristic C Number of poles (total) 2 Number of protected poles I Ratad current A 25 Rated voltage V 230 Rated singulas voltage Uira V 440 Rated singulas voltage Uirap kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V kA 15 Rated short-circuit breaking capacity Icn EN 60894 r2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 2400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 2400 V kA 25 Current limiting class 3 AC Suttable for flush-mounted installation P No Concurrently switching N-neutral Yes Yes Over voltage category 3 3 Pollution degree Yes Yes Additional equipment possible Yes Yes Width in number of modular spacings Yes Yes <th>Technical data ETIM 7.0</th> <th></th> <th></th>	Technical data ETIM 7.0		
Cell Cast College Cast	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)	
Number of poles (total) 2 Number of protected poles 1 Rated current A 25 Rated voltage V 30 Rated short-circuit breaking capacity (Ln EN 60988 at 230 V kV 44 Rated short-circuit breaking capacity (Ln EN 60988 at 400 V kA 15 Rated short-circuit breaking capacity (Ln EN 60988 at 400 V kA 15 Rated short-circuit breaking capacity (Ln IEC 60947-2 at 200 V kA 25 Rated short-circuit breaking capacity (Ln IEC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity (Ln IEC 60947-2 at 400 V kA 25 Voltage type B AC Frequency B No Current limiting class S No Suitable for flush-mounted installation No S Concurrently switching N-neutral Yes S Over voltage category 2 S Pollution degree Yes S Additional equipment possible Yes Width in number of modular spacings Yes	Electric engineering, automation, process control engineering / Electrical installati (ecl@ss10.0.1-27-14-19-01 [AAB905014])	ion, device / Miniature ci	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Number of protected poles 1 Rated current A 25 Rated voltage V 230 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 15 Rated short-circuit breaking capacity Icu EC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu EC 60947-2 at 400 V kA 25 Rated short-circuit breaking capacity Icu EC 60947-2 at 400 V kA 25 Voltage type AC AC Frequency B 3 Current limiting class No Suitable for flush-mounted installation No Concurrently switching N-neutral Yes Over voltage category S 3 Pollution degree Yes Additional equipment possible Yes Width in number of modular spacings Yes Built-in depth Pollution degree Yes Built-in depth Pollution degree Yes <	Release characteristic		С
Rated current Rated voltage Rated insulation voltage Ui Rated insulation voltage Ui Rated insulation voltage Uimp Rated insulation voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rottage type Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rottage type Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Rottage type Rottage type Rottage type Rottage type Rottage type Rottage type Rottage category Rottage Rottage category Rottage category Rottage Rottage category Rottage	Number of poles (total)		2
Rated voltage V 230 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 15 Rated short-circuit breaking capacity Icn EN 60898 at 400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 2400 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type kA 25 Frequency kA 25 Current limiting class 3 3 Suitable for flush-mounted installation No Yes Concurrently switching N-neutral Yes 2 Over voltage category 3 3 3 Pollution degree Yes Yes Additional equipment possible Yes Yes Width in number of modular spacings m 70.5 Built-in depth m 70.5 Degree of protection (IP) 70.5 70.5 Ambient temperature during operating <td>Number of protected poles</td> <td></td> <td>1</td>	Number of protected poles		1
Act of insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60988 at 230 V kA 15 Rated short-circuit breaking capacity Icn EN 60988 at 400 V kA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25 Voltage type LA 50 - 60 Current limiting class 3 3 Suitable for flush-mounted installation Ves Ves Concurrently switching N-neutral Ves 3 Over voltage category 3 3 Pollution degree Yes 2 Additional equipment possible Yes Width in number of modular spacings Yes Built-in depth Pun 70.5 Degree of protection (IP) P20 Ambient temperature during operating "C 25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Rated current	Α	25
Rated impulse withstand voltage Ulimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 608947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Voltage type Prequency 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 Protection of the standard over the standard ove	Rated voltage	V	230
Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Voltage type 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 degth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V RA 25 RA 25 RC RC RC RC RC RC RC RC RC R	Rated insulation voltage Ui	V	440
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Requency 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 kA 25 AC AC AC AC AC AC AC AC AC A	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type AC Voltage type Hz 50 - 60 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 kA C AC AC AC AC AC AC AC PE 4 50 - 60 No Yes 3 2 4 4 50 - 60 No Yes 4 7 8 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15
Voltage type Frequency Lurrent 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 AC PE 50 - 60 No Yes 2 3 3 4 7 5 7 7 7 7 7 7 7 7 7 7 7	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	25
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 No No Yes No Yes 2 4 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V $$	kA	25
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 mm 70.5 Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired 3 No Yes 2 Additional equipment possible mm 70.5 Legree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired mm² 1 - 25	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 Pollution degree 2 Pollution degree Possible Yes 2 Pollution degree 1 Pollution degree Pollution degree 2 Andient temperature during operating Pollution degree	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 2 Pollution degree Yes Yes Yes Yes Pos Pos Pos Pos Pos Pos Pos P	Current limiting class		3
Over voltage category 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 3 Yes Yes 1 1 1 1 1 1 1 1 1 1 1 1 1	Suitable for flush-mounted installation		No
Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 2 Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Concurrently switching N-neutral		Yes
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 70.5 IP20 IP20 The protection (IP) mm² 1 - 25	Over voltage category		3
Width in number of modular spacings 2 Built-in depth mm 70.5 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Pollution degree		2
Built-in depth mm 70.5 Degree of protection (IP) IP20 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 °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25	Width in number of modular spacings		2
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 mm² 1 - 25	Connectable conductor cross section multi-wired	mm²	1 - 25
	Connectable conductor cross section solid-core	mm²	1 - 25

Characteristics



Tripping characteristic FAZ at 30 °C: B, C, D to IEC/EN 60898

Dimensions

