# DATASHEET - FAZT-C1/1

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





Part no.FAZT-C1/1Catalog No.240798Alternate CatalogFAZT-C1/1No.EL-Nummer1605563(Norway)

Similar to illustration

### **Delivery program**

		Miniature circuit-breakers
		1 pole
		C
		Switchgear for industrial and advanced commercial applications
I <sub>n</sub>	А	1
l <sub>cu</sub>	kA	25
		FAZ-T

#### Technical data Electrical

Electrical			
Standards			IEC/EN 60947-2
Rated voltage according to IEC/EN 60947-2	Un	V AC	240
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25
Rated service short-circuit breaking capacity according to IEC/EN 60947-2	I <sub>cs</sub>		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)	l <sub>cu</sub>	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I <sub>cs</sub>		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	Un	V AC	240
Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I <sub>cs</sub>		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 <sup>2</sup>	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

10.2 Strength of materials and parts   Image: strength of materials and parts   Image: strength of materials and parts     10.2.2 Corrosion resistance   Image: strength of materials to normal heat   Meets the product standard's requirements.     10.2.3.2 Verification of resistance of insulating materials to normal heat   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat     10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects   Image: strength of materials to abnormal heat     10.2.4 Resistance to ultra-violet (UV) radiation   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat     10.2.5 Lifting   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat     10.2.5 Lifting   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat     10.2.5 Lifting   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat   Image: strength of materials to abnormal heat     10.2.5 Lifting   Image: strength of materials to abnormal heat   Image: strength of materials to abnor	echnical data for design verification			
Equipment head displation, on-current-dependent     Pede     Weil     Id       Static heat dissipation, on-current-dependent     Pede     Weil     0       Beard dissipation, on-current-dependent     Pede     Weil     0       Operating ambiert temperature min.     -0     -0     -0       Operating ambiert temperature max.     -0     -0     -0       CEN 61458 design verification     -0     -0     -0     -0       10.2 Storesion of assistance     -0     <	Rated operational current for specified heat dissipation	I <sub>n</sub>	А	1
Pail     Pail <th< td=""><td>Heat dissipation per pole, current-dependent</td><td>P<sub>vid</sub></td><td>W</td><td>0</td></th<>	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Heat dissipation capacity     Pains     W     Constraints       Operating ambient temperature min.     *	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.6
Correcting ambient temperature min.     Correcting ambient temperature max.     Correcting ambient temperature max.     Correcting ambient temperature max.     Correcting ambient temperature max.       022 Strength of materials and parts     Correcting ambient temperature max.     For any of the set of the product standard's requirements.       1022 Strength of materials and parts     Meets the product standard's requirements.     Meets the product standard's requirements.       102.3.1 Verification of resistance of insulating materials to normal heat     Meets the product standard's requirements.       102.3.2 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.3.3 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.4 Resistance to ultra-violet (UV) radiation     Meets the product standard's requirements.       102.5 Interpitons     Dees not apply, since the entire switchgear needs to be evaluated.       103.2 Depree of protection of ASSEMBUES     Dees not apply, since the entire switchgear needs to be evaluated.       103.2 Interpitons     Meets the product standard's requirements.       104.2 Interpitons     Dees not apply, since the entire switchgear needs to be evaluated.       104.2 Interpitons     Dees not apply, since the entire switchgear needs to be evaluated. <td< td=""><td>Static heat dissipation, non-current-dependent</td><td>P<sub>vs</sub></td><td>W</td><td>0</td></td<>	Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Operating ambient temperature max.     PC       CEN 61489 design verification     inser, per +1 *C, results in 0.5% reduction of current carrying capacity of current carrying capacity of materials and parts       10.2 Strength of materials and parts     Meets the product standard's requirements.       10.2.3 Unrification of thermal stability of onclosures     Meets the product standard's requirements.       10.2.3 Verification of resistance of insulating materials to abnormal heat and for due to internal electric effects     Meets the product standard's requirements.       10.2.3 Verification of resistance of insulating materials to abnormal heat and for due to internal electric effects     Meets the product standard's requirements.       10.2.4 Meets the undue vertification of resistance of insulating materials to abnormal heat and for due to internal electric effects     Meets the product standard's requirements.       10.2.4 Meets the undue vertification of resistance of insulating materials to abnormal heat and for due to internal electric affects     Meets the product standard's requirements.       10.2.5 Uffing     Does not apply, since the entire switchgear needs to be evaluated.       10.2.6 Mechanical inpact     Does not apply, since the entire switchgear needs to be evaluated.       10.3 Degree of protection of ASSEMBLES     Does not apply, since the entire switchgear needs to be evaluated.       10.6 Accornotion for switching and connections     Entepanel builder's responsibility.  <	Heat dissipation capacity	P <sub>diss</sub>	W	0
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C/E N61439 design verification   Models   Metable of materials and parts     10.22 Corresion resistance   Metable of materials and parts   Metable of materials and parts     10.2.2 Corresion resistance   Metable of materials and parts   Metable of materials and parts     10.2.3 Verification of trainal stability of enclosures   Metable of materials the product standard's requirements.     10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects   Metable to product standard's requirements.     10.2.4 Resistance to ultra-violet (UV) radiation   Metable to product standard's requirements.     10.2.5 Lifting   Does not apply, since the entire switchgear needs to be evaluated.     10.2.5 Mechanical inpact   Does not apply, since the entire switchgear needs to be evaluated.     10.2.6 Mechanical inpact   Does not apply, since the entire switchgear needs to be evaluated.     10.3 Degree of protection of ASSEMBUES   Does not apply, since the entire switchgear needs to be evaluated.     10.4 Clearances and creepage distances   Does not apply, since the entire switchgear needs to be evaluated.     10.4 Clearance and creepage distances   Does not apply, since the entire switchgear needs to be evaluated.     10.7 Internal electric dircuits and components   Does not apply, since the entire switchgear needs to be evaluated.     10.9 Invalation prope	Operating ambient temperature max.		°C	75
10.2 Strength of materials and parts   Meets the product standard's requirements.     10.2.3 Verification of thermal stability of enclosures   Meets the product standard's requirements.     10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric affects   Meets the product standard's requirements.     10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric affects   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.     10.3.0 Degree of protection of ASSEMBLIES   Does not apply, since the entire switchgear needs to be evaluated.     10.4.1 Incorporation of switching devices and components   Does not apply, since the entire switchgear needs to be evaluated.     10.4.2 Power-frequency electric strength   Is the panel builder's responsibility.     10.8 Incorporation of suitching anterial   Is the panel builder's responsibility.     10.9 Thereaf electrical circuits and components   Is the panel builder's responsibility.     10.8 Connections for external conductors   Is the panel builder's responsibility.     10.9 Suparetire sites of insulating material				linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
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 abnormal heat and fire due to internal electric effects   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   Does not apply, since the entire switchgear needs to be evaluated.     10.2.6 Incription of assist electric shock   Does not apply, since the entire switchgear needs to be evaluated.     10.5 Incorporation of switching devices and components   Does not apply, since the entire switchgear needs to be evaluated.     10.8 Incorporation of subching devices and components   Internal electric is createrial conductors   Does not apply, since the entire switchgear needs to be evaluated.     10.8 Incorporation of switching devices and components   Internal electric is responsibility.   Internal electric is trength     10.8 Incorporation of external c	C/EN 61439 design verification			
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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.     10.9.1 Insulation properties   Is the panel builder's responsibility.     10.9.2 Power-frequency electric strength   Is the panel builder's responsibility.     10.9.3 Inpulse 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   Is the panel builder's responsibility.     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 mee	10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
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10.8 Connections for external conductors   Is the panel builder's responsibility.     10.9 Insulation properties   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   Is the panel builder's responsibility.     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	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.9 Insulation properties   Image: Constraint of 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   Is the panel builder is responsibility.     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	10.7 Internal electrical circuits and connections			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   Is the panel builder's responsibility.     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	10.8 Connections for external conductors			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 responsibility.     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	10.9 Insulation properties			
10.9.4 Testing of enclosures made of insulating material   Is the panel builder's responsibility.     10.10 Temperature rise   Is the panel builder's responsibility.     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	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.10 Temperature rise   The panel builder is responsible for the temperature rise calculation. Eaton with 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	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
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	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility observed.   10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton wil provide heat dissipation data for the devices.
10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear mus observed.
	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear mus 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**

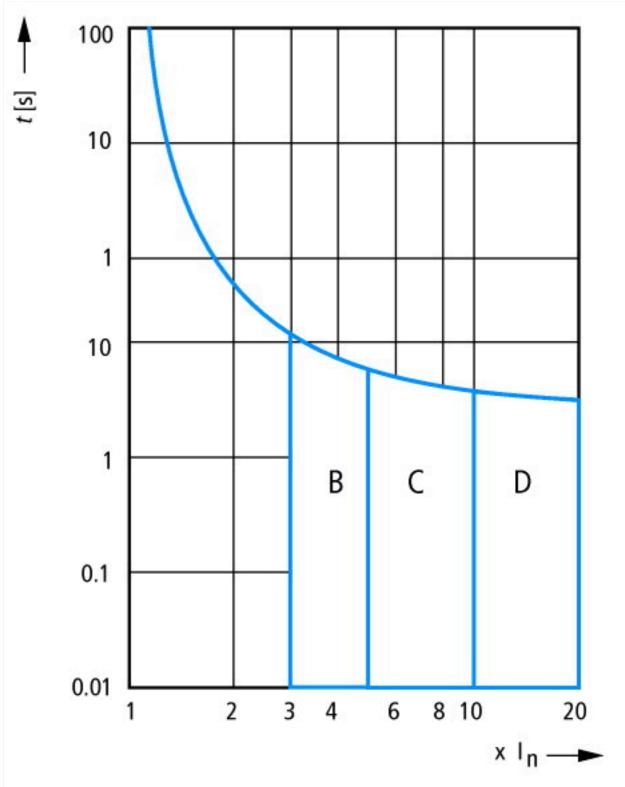
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

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])

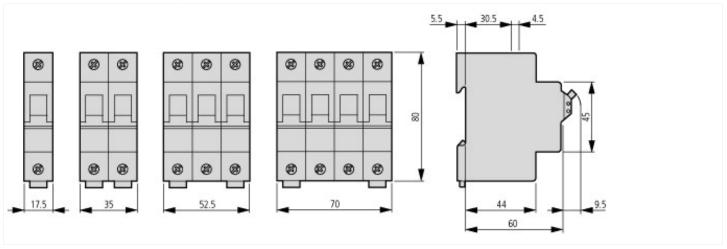
Release characteristic		C
Number of poles (total)		1
Number of protected poles		1
Rated current	А	1
Rated voltage	V	240
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	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		AC
Frequency	Hz	50 - 60

Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		1
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
Connectable conductor cross section solid-core	mm²	1 - 25

# **Characteristics**



### **Dimensions**



## Additional product information (links)

Temperature dependency, derating

https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ\_T.pdf