### DATASHEET - FAZ-C3/1-NA

Part no. Catalog No.

**EL-Nummer** 

(Norway)

No.

Alternate Catalog

Miniature circuit breaker (MCB), 3 A, 1p, characteristic: C

FAZ-C3/1-NA

FAZ-C3/1-NA

102081

1691570



Similar to illustration

#### **Delivery program**

Basic function			Miniature circuit-breakers
Number of poles			1 pole
Tripping characteristic			c
Application			Switchgear for export to North America (UL-listed)
Rated current	In	А	3
Rated switching capacity acc. to IEC/EN 60947-2	l <sub>cu</sub>	kA	15
Product range			FAZ-NA

# Technical data

Electrical			
Standards			UL 489, CSA C22.2 No. 5 IEC 60947-2
Rated operational voltage	Ue	V	
	U <sub>e</sub>	V AC	277 Y
		V DC	60
Rated voltage according to IEC/EN 60947-2	Un	V AC	254
Rated voltage according to UL	Un	V AC	277
Rated switching capacity acc. to IEC/EN 60947-2	l <sub>cu</sub>	kA	15
Breaking capacity according to UL		kA	10 (UL489)
Characteristic			B, C, D
Selectivity Class			3
lifespan			
Lifespan	Operations		> 20000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	105
Mounting width per pole		mm	17.7
Mounting			IEC/EN 60715 top-hat rail
Degree of Protection			IP20, IP40 (when fitted)
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Finger and back-of-hand proof to BGV A2
Tightening torque of fixing screws		N/m	max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in)
Mounting position			As required

## Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation	l <sub>n</sub>	А	3
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	w	1.2
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	w	0
Heat dissipation capacity	P <sub>diss</sub>	w	0
	' diss	°C	
Operating ambient temperature min.		°C	-25 75
Operating ambient temperature max.		° L	
EC/EN 61439 design verification			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
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.
10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 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 8.0**

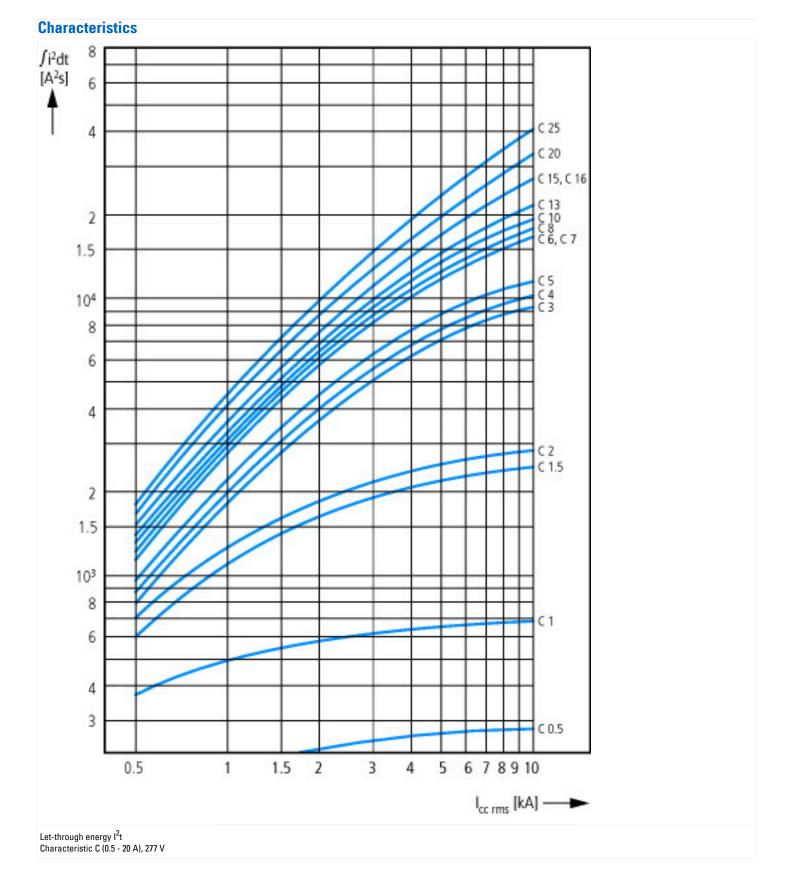
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

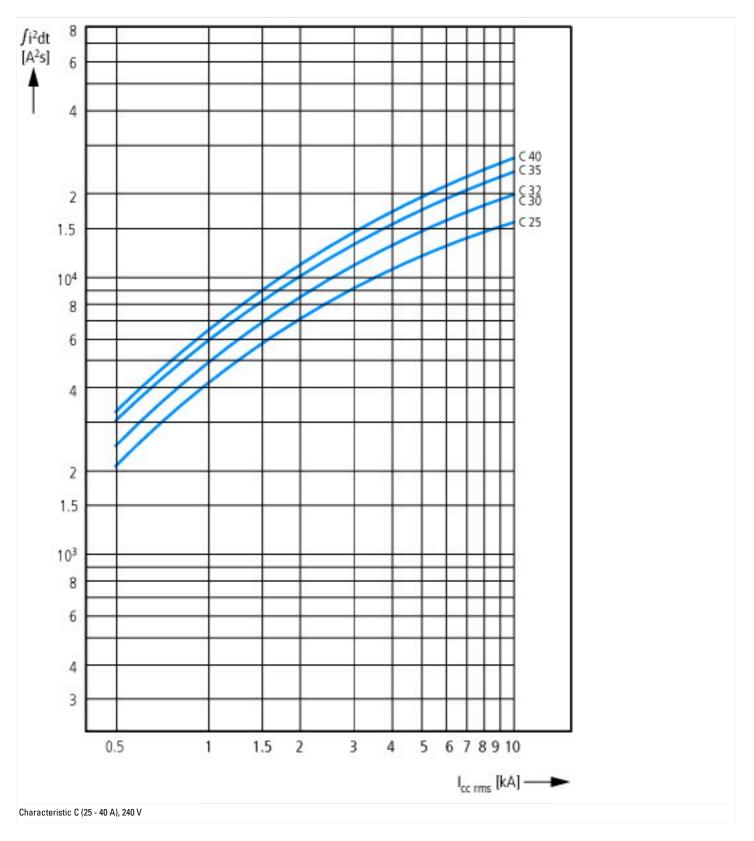
Electric engineering, automation, process control engineering / Electrical installa (ecl@ss10.0.1-27-14-19-01 [AAB905014])	ition, device / Minia	ature circ	uit breaker system (MCB) / Miniature circuit breaker (MCB)
Built-in depth	m	nm	70.5
Release characteristic			C
Number of poles (total)			1
Number of protected poles			1
Rated current	A	7	3
Rated voltage	V	/	240
Rated insulation voltage Ui	V	/	440
Rated impulse withstand voltage Uimp	k'	٨V	4
Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V	k	κA	0
Voltage type			AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	k	κA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V $$	k	κA	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V $$	k	κA	15
Frequency	Н	łz	50 - 60
Current limiting class			3

Flush-mounted installation		No
Concurrently switching neutral conductor		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number 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
Explosion-proof		No

## **Approvals**

Product Standards	IEC/EN 60947-2; EN 45545-2; IEC 61373; UL 489; CSA-C22.2 No. 5-09; CE marking
UL File No.	E235139
UL Category Control No.	DIVQ
CSA File No.	204453
CSA Class No.	1432-01
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, suitable as BCPD
Suitable for	Feeder circuits, branch circuits
Current Limiting Circuit-Breaker	Yes
Max. Voltage Rating	≤ 32 A
Degree of Protection	IEC: IP20, UL/CSA Type: -





# Additional product information (links)

Temperature dependency, derating

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