

xEffect - Industrial Switchgear Range Miniature Circuit Breakers FAZ-NA-DC



Catalog

EATON

Powering Business Worldwide

SG56612



Description

FAZ-NA-DC

- High-quality miniature circuit breakers for DC-applications
- Contact position indicator red - green
- Guide for secure terminal connection (not for FAZ-NA)
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories suitable for subsequent installation
- Rated currents up to 40 A
- Tripping characteristic C
- Rated breaking capacity 10 kA according to IEC/EN 60947-2
- Up to 125 V DC per pole
- Classified for the use in rail rolling stock

Rated current I_n (A)	Rated voltage acc. to IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage acc. to UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	Type Designation	Article No.	Units per package
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Characteristic C

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1-pole

2	220	10	125	10			FAZ-C2/1-NA-DC	113752	12/120
3	250	10	125	10			FAZ-C3/1-NA-DC	113753	12/120
4	250	10	125	10			FAZ-C4/1-NA-DC	113754	12/120
5	250	10	125	10			FAZ-C5/1-NA-DC	113755	12/120
6	250	10	125	10			FAZ-C6/1-NA-DC	113756	12/120
7	250	10	125	10			FAZ-C7/1-NA-DC	113757	12/120
8	250	10	125	10			FAZ-C8/1-NA-DC	113758	12/120
10	250	10	125	10			FAZ-C10/1-NA-DC	113759	12/120
13	250	10	125	10			FAZ-C13/1-NA-DC	113760	12/120
15	250	10	125	10			FAZ-C15/1-NA-DC	113761	12/120
16	250	10	125	10			FAZ-C16/1-NA-DC	113762	12/120
20	250	10	125	10			FAZ-C20/1-NA-DC	113763	12/120
25	250	10	125	10			FAZ-C25/1-NA-DC	113764	12/120
30	250	10	125	10			FAZ-C30/1-NA-DC	113765	12/120
32	250	10	125	10			FAZ-C32/1-NA-DC	113766	12/120
35	250	10	125	10			FAZ-C35/1-NA-DC	113767	12/120
40	250	10	125	10			FAZ-C40/1-NA-DC	113768	12/120

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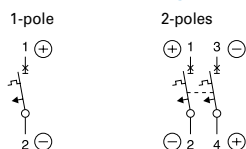
2-poles

2	440	10	250	10			FAZ-C2/2-NA-DC	137239	1/60
3	500	10	250	10			FAZ-C3/2-NA-DC	137250	1/60
4	500	10	250	10			FAZ-C4/2-NA-DC	137251	1/60
5	500	10	250	10			FAZ-C5/2-NA-DC	137252	1/60
6	500	10	250	10			FAZ-C6/2-NA-DC	120638	1/60
7	500	10	250	10			FAZ-C7/2-NA-DC	120639	1/60
8	500	10	250	10			FAZ-C8/2-NA-DC	120640	1/60
10	500	10	250	10			FAZ-C10/2-NA-DC	120641	1/60
13	500	10	250	10			FAZ-C13/2-NA-DC	120642	1/60
15	500	10	250	10			FAZ-C15/2-NA-DC	120643	1/60
16	500	10	250	10			FAZ-C16/2-NA-DC	120644	1/60
20	500	10	250	10			FAZ-C20/2-NA-DC	120645	1/60
25	500	10	250	10			FAZ-C25/2-NA-DC	120646	1/60
30	500	10	250	10			FAZ-C30/2-NA-DC	120647	1/60
32	500	10	250	10			FAZ-C32/2-NA-DC	120648	1/60
35	500	10	250	10			FAZ-C35/2-NA-DC	120649	1/60
40	500	10	250	10			FAZ-C40/2-NA-DC	120650	1/60

Technical Data

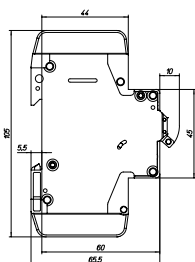
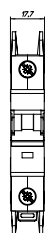
FAZ-...-NA-DC	
Product standard	UL 489, CSA C22.2 No. 5-02
Classified according to	IEC 61373, EN 45545-2
Current test marks as printed onto the device	
Number of poles	1, 2
Mechanical	
Device width	1 pole = 0.697 inch, 2 poles = 1.394 inch
Frame size	1.772 inch
Device height	4.134 inch
Device depth	2.362 inch
Terminals	lift terminal / ring-tongue
Terminal capacity rigid solid/stranded wire	1 Wire: #18-6 AWG (Cu only) 2 Wires: #18-10 AWG (Cu only)
Terminal screw	M5 (with slotted screw Pozidriv PZ2)
Fastening torque of terminal screws	#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)
Snap on fixing	tristable (on DIN Rail according to IEC/EN 60715)
Finger proof	acc. to VBG4, ÖVE EN-6
Contact position indicator	red / green
Electrical	
Rated voltage	U_n 125 V DC (1p) 250 V DC (2p)
Rated current	I_n 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A
Rated impulse withstand voltage	U_{imp} 4 kV (1.2/50) μ sec
Tripping characteristic	
Conventional non-tripping current	$I_{nt} = 1,00 I_n$
Conventional tripping current	$I_t = 1.35 I_n$
Reference temperature	25 °C
Temperature factor	0.5%/K
Instantaneous tripping current	I_{mt} $7 I_n < I_{mt} = 15 I_n; t(I_{mt}) < 0.1 \text{ sec}$
Current interrupting rating	10 kA
Number of electrical operations	6,000
Number of mechanical operations	10,000
Climatic conditions	acc. IEC 60068-2-30 (25..55°C / 90..95% RH)
Operating temperature range	-25°C up to +55°C

Connection diagram

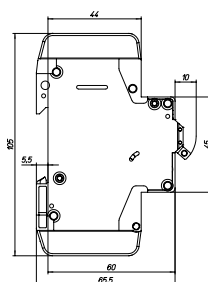
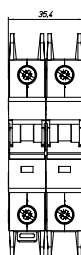


Dimensions (mm) FAZ-...-NA-DC

1-pole

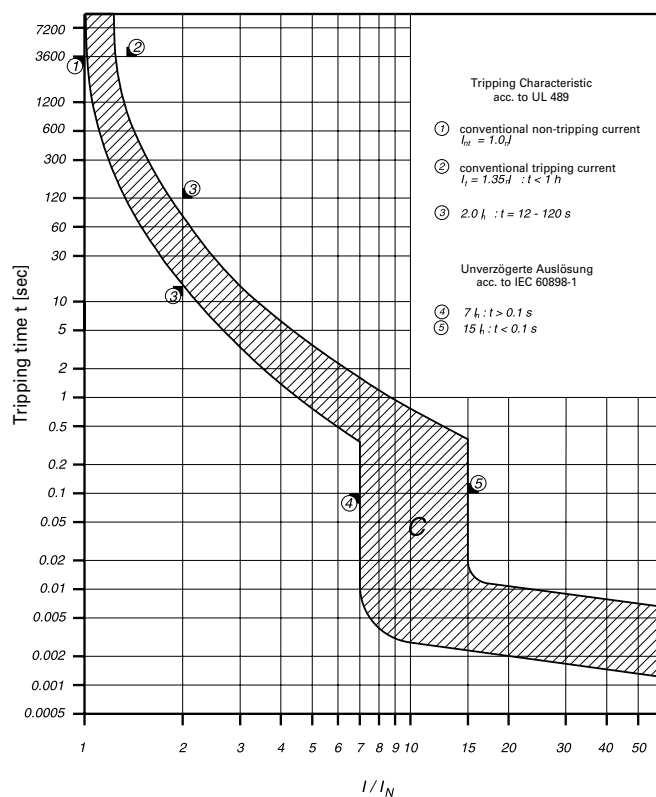


2-poles



Tripping Characteristics FAZ-...-NA-DC

Characteristics C - UL 489



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Publication No. CA003033EN
Article number 304267-MK
February 2022

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