

Over current switch, 15A, 1p, D-Char, AC

Part no. FAZ-D15/1-NA
Article no. 102109
Catalog No. FAZ-D15/1-NA



Similar to illustration

Delivery program

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

Technical data

Electrical

Standards			UL 489, CSA C22.2 No. 5 IEC 60947-2
Rated operational voltage	U _e	V	
	U _e	V AC	277/480 Y
		V DC	48
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Characteristic			B, C, D
Selectivity Class			3
Lifespan	Operations		> 20000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	105
Terminal protection			Finger and back-of-hand proof to BGV A2
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
Mounting position			As required

Design verification as per IEC/EN 61439

3			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	15
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	-25
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 6.0

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@ss8.1-27-14-19-01 [AAB905011])

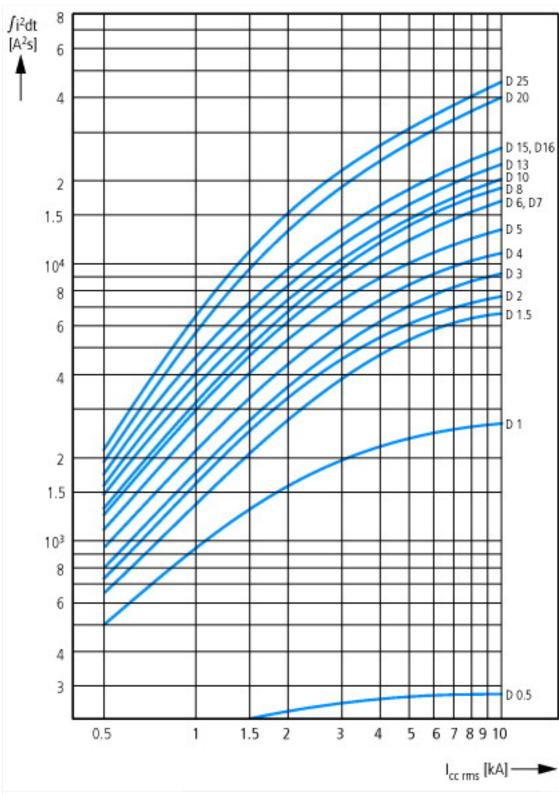
Number of poles (total) I 1 Number of protected poles I 1 Nominal rated current A 15 Nominal rated voltage V 240 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 0 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 15 Voltage type AC AC Current limiting class B B AC Concurrently switching N-neutral B B No Suitable for flush-mounted installation B Y No Over voltage category No No Pollution degree Y Y Y Voltage in flush-mounted installation Y Y Y Over voltage category Y Y Y Pollution degree Y Y Y V Y Y	Release characteristic			D
Nominal rated current Nominal rated voltage Nominal rated voltage 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 Voltage type Voltage type Refuency Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth A 15 A 24 B 3 B 15 A C 2 No 3 3 A S No S S S S S S S S S S S S S	Number of poles (total)			1
Nominal rated voltage 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 Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth V 240 240 240 240 240 240 240 240	Number of protected poles			1
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 Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth KA 0 C COCCURRENT SA AC COCCURRENT SA AC SO AC SO AC NO NO COCCURRENT SA AC NO COCCURRENT SA AC NO COCCURRENT SA AC COCCURRENT SA AC SO AC COCCURRENT SA	Nominal rated current	Δ.	4	15
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 Current limiting class Frequency Cncurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth KA 15 AC Currently S0 - 60 No No No 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V RA 15 AC AC No No No 11 No 70.5	Nominal rated voltage	V	/	240
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	k	κA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type AC Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth KA 15 AC AC AC NO 3 NO 10 10 10 10 10 10 10 10 10 1	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	k	κA	0
Voltage type Current limiting class Frequency Concurrently switching N-neutral Concurrently switching N-neutral Concurrently switching N-neutral Cover voltage category Pollution degree Width in number of modular spacings Mc AC AC AC No Su-60 No No Queryoltage category AD 3 2 Width in number of modular spacings Midth in number of modular spacings Midth in depth Midth in number of modular spacings	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	k	κA	15
Current limiting class Frequency Concurrently switching N-neutral Concurrently switching N-neutral No Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings In the space of the space	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	k	kΑ	15
Frequency Hz 50 - 60 Concurrently switching N-neutral No Suitable for flush-mounted installation No Over voltage category 3 Pollution degree 2 Width in number of modular spacings 1 Built-in depth mm 70.5	Voltage type			AC
Concurrently switching N-neutral No Suitable for flush-mounted installation No Over voltage category 3 Pollution degree 2 Width in number of modular spacings 1 Built-in depth mm 70.5	Current limiting class			3
Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth No 2 Voltage category 1 Do not be a second of the second of	Frequency	H	Hz	50 - 60
Over voltage category 3 Pollution degree 2 Width in number of modular spacings 1 Built-in depth mm 70.5	Concurrently switching N-neutral			No
Pollution degree 2 Width in number of modular spacings 1 Built-in depth mm 70.5	Suitable for flush-mounted installation			No
Width in number of modular spacings 1 Built-in depth mm 70.5	Over voltage category			3
Built-in depth mm 70.5	Pollution degree			2
	Width in number of modular spacings			1
	Built-in depth	n	mm	70.5
Additional equipment possible Yes	Additional equipment possible			Yes
Degree of protection (IP)	Degree of protection (IP)			IP20

Approvals

Product Standards	IEC/EN 60947-2; 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: -

Characteristics



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Let-through energy I²t Characteristic D (0.5 - 20 A), 277 V

