

## Over current switch, 15A, 2p, type D characteristic

Powering Business Worldwide\*

Part no. FAZ-D15/2 Article no. 278782 Catalog No. FAZ-D15/2

Similar to illustration

<b>Delivery program</b>	

Basic function			Miniature circuit breakers
Number of poles			2 pole
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	15
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

#### **Technical data**

### Electrical

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## **Design verification as per IEC/EN 61439**

Design vermoanon as per 126/214 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	15
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.4
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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 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])

Release characteristic	[AAB905011])		
Number of protected poles         2           Nominal rated current         A         15           Nominal rated voltage         V         400           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         10           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         15           Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V         kA         15           Voltage type         AC         AC           Current limiting class         3         AC           Crurently switching N-neutral         No         No           Suitable for flush-mounted installation         No         No           Over voltage category         2         3           Pollution degree         2         2           Width in number of modular spacings         2         2           Bull-in depth         No         2           Additional equipment possible         Me         9	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 Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn EN 60897-2 at 230 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 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 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 Rated short-circuit breaking capacity Icu IEC 60947-2 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 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Ic	Number of poles (total)		2
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  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  Additional equipment possible	Number of protected poles		2
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  Current limiting class  Frequency Currently switching N-neutral Concurrently switching N-neutral Suitable for flush-mounted installation  Over voltage category Pollution degree  Width in number of modular spacings  Built-in depth Additional equipment possible	Nominal rated current	Α	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 Concurrently switching N-neutral Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible  kA 15  Concurrently skA 26  AC  No No  No  AC  Surable for flush-mounted installation No  Tots  Yes	Nominal rated voltage	V	400
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  Current limiting class 3  Frequency Built-in depth Additional equipment possible AAC  Limiting Capacity Icu IEC 60947-2 at 400 V kA 15  AC  AC  AC  AC  AC  AC  No  No  No  No  No  No  No  Additional equipment possible AAC  IEU SOLOGO  NO  NO  NO  NO  NO  NO  NO  NO  NO	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  kA  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  Additional equipment possible  kA  15  AC  AC  AC  3  Frequency  No  No  No  2  4  To  To  To  To  To  To  To  To  To	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Voltage typeACCurrent limiting class3FrequencyHz50 - 60Concurrently switching N-neutralNoSuitable for flush-mounted installationNoOver voltage category3Pollution degree2Width in number of modular spacings2Built-in depthmm70.5Additional equipment possibleYes	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Current limiting class  Frequency Concurrently switching N-neutral Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Mo  70.5 Additional equipment possible  3  Additional equipment possible	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible  Hz 50 - 60 No No  2 2 2 4 4 5 50 - 60 No	Voltage type		AC
Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Mmm  70.5  Additional equipment possible	Current limiting class		3
Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  No  2  Ves	Frequency	Hz	50 - 60
Over voltage category     3       Pollution degree     2       Width in number of modular spacings     2       Built-in depth     mm     70.5       Additional equipment possible     Yes	Concurrently switching N-neutral		No
Pollution degree 2 Width in number of modular spacings 2 Built-in depth mm 70.5 Additional equipment possible Yes	Suitable for flush-mounted installation		No
Width in number of modular spacings 2 Built-in depth mm 70.5 Additional equipment possible Yes	Over voltage category		3
Built-in depth mm 70.5 Additional equipment possible Yes	Pollution degree		2
Additional equipment possible  Yes	Width in number of modular spacings		2
	Built-in depth	mm	70.5
Degree of protection (IP)	Additional equipment possible		Yes
	Degree of protection (IP)		IP20

# **Approvals**

E177451 Category Control No. C	• •	
Category Control No.  A File No.  A Class No.  A Class No.  A Class No.  Category Control No.  Category Control No.  Category Control No.  Country Country Country  Category Control No.  Category Con	Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
A File No.  A Class No.  A Class No.  A Class No.  B Class No.  Cl	UL File No.	E177451
A Class No.  13215-30  14th America Certification  15th Am	UL Category Control No.	QVNU2, QVNU8
th America Certification  UL recognized, CSA certified  ditions of Acceptability  able for  Branch Circuits; not as BCPD  rent Limiting Circuit-Breaker  No  480Y/277 VAC; 96 VDC	CSA File No.	204453
ditions of Acceptability  Supplementary Protector only  Branch Circuits; not as BCPD  rent Limiting Circuit-Breaker  No  480Y/277 VAC; 96 VDC	CSA Class No.	3215-30
able for Branch Circuits; not as BCPD rent Limiting Circuit-Breaker No 480Y/277 VAC; 96 VDC	North America Certification	UL recognized, CSA certified
rent Limiting Circuit-Breaker  No 480Y/277 VAC; 96 VDC	Conditions of Acceptability	Supplementary Protector only
c. Voltage Rating 480Y/277 VAC; 96 VDC	Suitable for	Branch Circuits; not as BCPD
	Current Limiting Circuit-Breaker	No
ree of Protection IEC: IP20; UL/CSA Type: -	Max. Voltage Rating	480Y/277 VAC; 96 VDC
	Degree of Protection	IEC: IP20; UL/CSA Type: -