

Arc Fault Circuit Interrupter, 2 poles, B10A, 10mA, KV, type A

Powering Business Worldwide

Part no. AFDD-10/2/B/001-LI/A Article no. 187166

Similar to illustration

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Number of poles Fripping characteristic Application Rated current Rated switching capacity according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 61009 Rated short-circuit strength Rated fault current IAN Rated fault current IAN Rated fault current IAN IAN IAN IAN IAN IAN IAN IA	Zonio, programmo			
Tripping characteristic Application Bated current Bated switching capacity according to IEC/EN 60898-1 Bated switching capacity according to IEC/EN 61009 Bated short-circuit strength B 10 Bated fault current ID	Basic function			Arc fault circuit interrupter
Application Rated current Rated switching capacity according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 61009 Rated short-circuit strength Rated fault current IDN Rated fault current IVPPE Tripping Typ LI/A Switchgear for residential and commercial applications Switchgear for residential and commercial applications A 10 Rated switching capacity according to IEC/EN 60898-1 KA 10 Rated short-circuit strength I DN A 10 Typ LI/A Typ LI/A Short time-delayed TyPE	Number of poles			2 pole
Rated current Rated switching capacity according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 61009 Rated switching capacity according to IEC/EN 61009 Rated short-circuit strength Rated fault current IDN Rated fault current IVPP ITIPITIES RATED SALES R	Tripping characteristic			В
Rated switching capacity according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 61009 Rated short-circuit strength Rated short-circuit strength Rated fault current I _{AN} Rated fault current I _{VP} Rated fault current	Application			Switchgear for residential and commercial applications
Rated switching capacity according to IEC/EN 61009 Rated short-circuit strength Icn KA 10 Rated short-circuit strength IAN A 0.01 Type Typ LI/A A Short time-delayed Type Typ	Rated current	In	Α	10
Rated short-circuit strength Rated fault current I _{AN} A 0.01 Typ LI/A Tripping Type ZV-SS	Rated switching capacity according to IEC/EN 60898-1		kA	10
Rated fault current I _{AN} A 0.01 Type Typ LI/A A Short time-delayed Type Type Type Type	Rated switching capacity according to IEC/EN 61009		kA	10
Typ LI/A Tripping A Short time-delayed Type 2V-SS	Rated short-circuit strength	I _{cn}	kA	10
Tripping A Short time-delayed ZV-SS	Rated fault current	$I_{\Delta N}$	Α	0.01
Type ZV-SS	Туре			Typ LI/A
	Tripping		Α	Short time-delayed
Product range AFDD	Туре			ZV-SS
	Product range			AFDD
Sensitivity Pulse-current sensitive	Sensitivity			Pulse-current sensitive
mpulse withstand current Partly surge-proof 250 A	Impulse withstand current			Partly surge-proof 250 A

Technical data

Electrical

Types conform to			IEC/EN 62606 IEC/EN 61009
Current test marks			As per inscription
Limit values of the operating voltage			
Test circuit		V AC	170 - 264
Sensitivity			Pulse-current sensitive
Rated short-circuit strength	I _{cn}	kA	10
lifespan			
Electrical			1\$ <u>≥</u> 4000
Mechanical		Operation	20000
Mechanical			

Device height mm 80 Built-in width mm 54 (3TE) Mounting Tristable slide catch enables removal from existing combination. IP20 switches IP 40 enclosed Terminals top and bottom Maul/Liftklemmen Terminal protection Berührungsschutz nach VBG4, ÖVE-EN 6 Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range °C -25 - 440 Permissible storage and transport temperatures °C -35 - 460 Climatic proofing gemäß IEC/EN 61009	Wechanical		
Built-in width mm 54 (3TE) Mounting Degree of Protection Degree of Protection Tristable slide catch enables removal from existing combination. IP20 switches IP 40 enclosed Terminals top and bottom Maul/Liftklemmen Terminal protection Berührungsschutz nach VBG4, ÖVE-EN 6 Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range ° C -25 - +40 Permissible storage and transport temperatures ° C -35 - +60 Glimatic proofing gemäß IEC/EN 61009	Standard front dimension	mm	45
Mounting Degree of Protection IP20 switches IP 40 enclosed Terminals top and bottom Terminal protection Maul/Liftklemmen Berührungsschutz nach VBG4, ÖVE-EN 6 Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range °C -25 - +40 Permissible storage and transport temperatures Climatic proofing Tristable slide catch enables removal from existing combination. IP20 switches IP 40 enclosed Maul/Liftklemmen 8 erührungsschutz nach VBG4, ÖVE-EN 6 Climatic proofing Tristable slide catch enables removal from existing combination. IP20 switches IP 40 enclosed Maul/Liftklemmen 8 erührungsschutz nach VBG4, ÖVE-EN 6 Climatic proofing gemäß IEC/EN 61009	Device height	mm	80
Degree of Protection IP20 switches IP 40 enclosed Terminals top and bottom Terminal protection Terminal protection Thickness of busbar material Admissible ambient temperature range °C -25 - +40 Permissible storage and transport temperatures Climatic proofing IP20 switches Maul/Liftklemmen Berührungsschutz nach VBG4, ÖVE-EN 6 **O** -25 - +40 gemäß IEC/EN 61009	Built-in width	mm	54 (3TE)
IP 40 enclosed Terminals top and bottom Terminal protection Thickness of busbar material Admissible ambient temperature range Permissible storage and transport temperatures Climatic proofing IP 40 enclosed Maul/Liftklemmen Berührungsschutz nach VBG4, ÖVE-EN 6 Berührungsschutz nach VBG4, ÖVE-EN 6 Ce -25 - +40 Ce -25 - +40 Gemäß IEC/EN 61009	Mounting		Tristable slide catch enables removal from existing combination.
Terminal protection Berührungsschutz nach VBG4, ÖVE-EN 6 mm 0.8 - 2 Admissible ambient temperature range °C -25 - +40 Permissible storage and transport temperatures °C -35 - +60 Glimatic proofing Berührungsschutz nach VBG4, ÖVE-EN 6 mm 0.8 - 2 -25 - +40 gemäß IEC/EN 61009	Degree of Protection		
Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range °C -25 - +40 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing gemäß IEC/EN 61009	Terminals top and bottom		Maul/Liftklemmen
Admissible ambient temperature range °C -25 - +40 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing gemäß IEC/EN 61009	Terminal protection		Berührungsschutz nach VBG4, ÖVE-EN 6
Permissible storage and transport temperatures °C -35 - +60 Glimatic proofing gemäß IEC/EN 61009	Thickness of busbar material	mm	0.8 - 2
Climatic proofing gemäß IEC/EN 61009	Admissible ambient temperature range	°C	-25 - +40
·	Permissible storage and transport temperatures	°C	-35 - +60
Contact position indicator red / green	Climatic proofing		gemäß IEC/EN 61009
	Contact position indicator		red / green

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	10

Equipment heat dissipation, current-dependent	P_{vid}	W	4.3
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) / Earth leakage circuit breaker with auxiliary device (EC002695)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Earth leakage circuit breaker with auxiliary device (ecl@ss8.1-27-14-22-13 [ADI479004])

Number of poles		2
Nominal rated voltage	V	230
Nominal rated current	Α	10
Rated fault current	А	0.01
Leakage current type		A
Current limiting class		3
Rated short-circuit breaking capacity EN 60898	kA	10
Rated short-circuit breaking capacity IEC 60947-2	kA	0
Frequency	Hz	50
Release characteristic		В
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		3
Built-in depth	mm	67
Additional equipment attached at delivery		Fire protection switch
Rated switch current auxiliary device	А	0
Rated voltage auxiliary device	V	230
Control voltage type auxiliary equipment		AC
Degree of protection (IP)		IP20