

Arc Fault Detection Device, 2p, C, 20 A, 30 mA, type A



**Part no.** AFDD-20/2/C/003-A  
**187222**  
**EL Number** 1601444  
**(Norway)**

Similar to illustration

General specifications		
Product name		Eaton Moeller series xPole - AFDD+ Arc fault detection device
Part no.		AFDD-20/2/C/003-A
EAN		4015081822713
Product Length/Depth		80 millimetre
Product height		73 millimetre
Product width		52.5 millimetre
Product weight		0.277 kilogram
Compliances		CE Marked RoHS conform
Certifications		CE
Product Tradename		xPole - AFDD+
Product Type		Arc fault detection device
Product Sub Type		None
Delivery program		
Application		Switchgear for residential and commercial applications
Product range		AFDD
Basic function		Arc fault circuit interrupter
Product application		Switchgear for residential and commercial applications
Number of poles		Two-pole
Release characteristic		C
Tripping characteristic		C
Rated current		20 A
Rated current of product range		10-40 Ampere
Fault current rating		0.03 A
Sensitivity type		Pulse-current sensitive Type A
Type		AFDD+
Technical Data - Electrical		
Voltage rating		230 V
Current test marks		As per inscription
Impulse withstand current		Partly surge-proof, 250 A
Frequency		50 Hz
Leakage current type		A
Rated switching capacity (IEC/EN 61009)		10 kA
Rated short-circuit breaking capacity		10 Kilo Ampere
Rated short-circuit breaking capacity (EN 60947-2)		0 kA
Rated short-circuit breaking capacity (EN 61009)		10 kA
Test circuit AC		170 - 264 Voltage AC
Tripping		Non-delayed
Control voltage type auxiliary equipment		AC
Rated voltage auxiliary device		230 V
Rated switch current auxiliary device		0 A
Pollution degree		2
Lifespan, electrical		4000 operations
Technical Data - Mechanical		

Frame		45 mm
Width In Number Of Modular Spacings		3
Built-in width		54 mm
Device height		80 mm
Built-in depth		67 mm
Mounting style		Tri-stable slide catch - enables removal from existing busbar combination
Degree of protection		IP20
Degree of protection (built in)		IP40
Terminals (top and bottom)		Twin-purpose
Terminal protection		Busbar tag shroud as per VBG4, ÖVE-EN 6
Contact position indicator		red / green
Thickness of busbar material		0.8 - 2 Square Millimeter
Climatic proofing		IEC/EN 61009
Lifespan, mechanical		20000 operations
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Rated operational current for specified heat dissipation (In)		20 A
Equipment heat dissipation, current-dependent		8.5 W
<b>Design verification as per IEC/EN 61439</b>		
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.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.6 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.
10.9.2 Power-frequency electric strength		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.
<b>Additional information</b>		
Current limiting class		3
Additional equipment attached at delivery		Fire protection switch
Types conform to		IEC/EN 62606 IEC/EN 61009

## Technical data ETIM 8.0

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@ss10.0.1-27-14-22-13 [ADI479007])		
Number of poles		2
Rated voltage	V	230
Rated current	A	20
Rated fault current	A	0.03
Leakage current type		A
Current limiting class		3
Rated short-circuit breaking capacity according to EN 61009	kA	10

Rated short-circuit breaking capacity according to IEC 60947-2	kA	0
Frequency	Hz	50
Release characteristic		C
Concurrently switching neutral conductor		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	A	0
Rated voltage auxiliary device	V	230
Control voltage type auxiliary equipment		AC
Degree of protection (IP)		IP20