



Arc Fault Detection Device, 2p, C, 40 A, 30 mA, type A

Part no. AFDD-40/2/C/003-A
187240

Similar to illustration

General specifications		
Product name		Eaton Moeller series xPole - AFDD+ Arc fault detection device
Part no.		AFDD-40/2/C/003-A
EAN		4015081822898
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		40 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)		6 kA
Rated short-circuit breaking capacity		6 Kilo Ampere
Rated short-circuit breaking capacity (EN 60947-2)		0 kA
Rated short-circuit breaking capacity (EN 61009)		6 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
Design verification as per IEC/EN 61439 - technical data			
Rated operational current for specified heat dissipation (In)			40 A
Equipment heat dissipation, current-dependent			10.5 W
Design verification as per IEC/EN 61439			
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.
Additional information			
Current limiting class			3
Additional equipment attached at delivery			Fire protection switch
Types conform to			IEC/EN 62606 IEC/EN 61009

Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Kombination FI-Schalter/Leitungsschutzschalter mit Zusatzeinrichtung (EC002695)			
Elektro-, Automatisierungs- und Prozessleittechnik / Elektroinstallationsanlage, -gerät / Fehlerstromschutzeinrichtung / Kombination FI-Schalter/Leitungsschutzschalter mit Zusatzeinrichtung (ecl@ss13-27-14-22-13 [ADI479012])			
Polzahl			2
Bemessungsspannung		V	230
Bemessungsstrom		A	40
Bemessungsfehlerstrom		A	0.03
Fehlerstrom-Typ			A
Energiebegrenzungsklasse			3
Bemessungsabschaltvermögen nach EN 61009		kA	6
Bemessungsabschaltvermögen nach IEC 60947-2		kA	0

Frequenz	Hz	50
Auslösecharakteristik		C
Mitschaltender Neutralleiter		No
Überspannungskategorie		3
Verschmutzungsgrad		2
Breite in Teilungseinheiten		3
Einbautiefe	mm	67
Zusatzeinrichtungen werkseitig angebaut		Brandschutzschalter
Bemessungsschaltstrom Zusatzeinrichtung	A	0
Bemessungsspannung Zusatzeinrichtung	V	230
Steuerspannungsart Zusatzeinrichtung		AC
Schutzart (IP)		IP20