DATASHEET - AFDD-20/2/C/003-G/A



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

Part no. AFDD-20/2/C/003-G/A
MB-300153

General specifications	
Product name	Eaton Moeller series xPole - AFDD+ Arc fault detection device
Part no.	AFDD-20/2/C/003-G/A
EAN	9010238802025
Product Length/Depth	80 millimetre
Product height	73 millimetre
Product width	52.5 millimetre
Product weight	0.277 kilogram
Compliances	RoHS conform CE Marked
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	6-40 Ampere
Fault current rating	0.03 A
Sensitivity type	Type G/A (ÖVE E 8601) Pulse-current sensitive
Type	AFDD+
Technical Data - Electrical	
Voltage rating	230 V
Current test marks	As per inscription
Impulse withstand current	Surge-proof, 3 kA
Frequency	50 Hz
Leakage current type	A
Rated switching capacity (IEC/EN 61009)	10 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)	10 kA
Test circuit AC	170 - 264 Voltage AC
Tripping	Short time-delayed
Control voltage type auxiliary equipment	AC/DC
Rated voltage auxiliary device	0 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)			20 A
Equipment heat dissipation, current-dependent			8.5 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			Other
Types conform to			IEC/EN 62606 IEC/EN 61009

Technical data ETIM 9.0

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@ss13-27-14-22-13 [ADI479012])

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			Other
Rated switch current auxiliary device		A	0
Rated voltage auxiliary device		V	0
Control voltage type auxiliary equipment			AC/DC
Degree of protection (IP)			IP20

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