DATASHEET - AFDD-16/2/B/003

Arc Fault Detection Device, 2p, B, 16 A, 30 mA, type AC

Part no. AFDD-16/2/B/003
187203

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Similar to illustration

General specifications	
Product name	Eaton Moeller series xPole - AFDD+ Arc fault detection device
Part no.	AFDD-16/2/B/003
EAN	4015081822522
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	B
Tripping characteristic	B
Rated current	16 A
Rated current of product range	10-40 Ampere
Fault current rating	0.03 A
Sensitivity type	AC current sensitive Type AC
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	AC
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
Design verification as per IEC/EN 61439 - technical data		
Rated operational current for specified heat dissipation (In)		16 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		Fire protection switch
Types conform to		IEC/EN 61009 IEC/EN 62606

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	16
Rated fault current	A	0.03
Leakage current type		AC
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			B
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