DATASHEET - NDRBM-15/2/C/003-F-OL



Electronic RCD/MCB combination, 15 A, 30 mA, MCB trip characteristic: C, 2p, RCD trip characteristic: F



Part no. Catalog No. NdRBM-15/2/C/003-F-OL 300505

Delivery program

		2 pole
		C
		Switchgear for residential and commercial applications
	A	15
N A	A	0.03
		Туре F
		NdRBM
N		A

Technical data

Electrical			
Rated fault currents	$I_{\Delta n}$	mA	30
Characteristic			C
Selectivity Class			3
Mechanical			
Degree of protection			
Switch			IP20
Integrated			IP40
Admissible ambient temperature range		°C	-25 +40
Thickness of busbar material		mm	
Material thickness		mm	0.8 2

Design verification as per IEC/EN 61439

•			
Technical data for design verification			
Operating ambient temperature min.	٥	°C	-25
Operating ambient temperature max.	0	°C	40
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 7.0

Circuiterian electrication process control angine ministratication process control angine minis				
JAZBURGISNumber of poles (total)2Number of poles (total)3Number of poles (total)V3Rate vintageV3Rate vintage vintant ov lange vintant o	Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)			
Number of protected poles2Number of protected polesV3Rated nuclaspiV30Rated insulation voltage UinpV4Rated insulation voltage UinpV4Rated insulation voltage UinpV4Rated insulation voltage UinpV30Rated fulcurentO03Leakage current typeV3Current limiting classV0Rated short-circuit breaking capacity IEC 0094-7.V0Rated short-circuit breaking capacity IEC 0094-7.VNRated short-circuit breaking capacity IEC 0094-7.NNNotame of module spacingNNNVidage typeNNNNotame of module spacingNNNNotame of module spacingNNNNo				
Rad votage V 90 Rad votage Uin V 90 Rated inpulse withstand votage Uinp V 90 Rated inpulse withstand votage Uinp V 90 Rated inpulse withstand votage Uinp V 90 Rated corrent V 90 Rated four corrent Wing V 90 Lakage corrent Wing capacity acc. EN 6009 V 80 Rated short-circuit breaking capacity acc. EN 6009 V 80 Rated short-circuit breaking capacity acc. EN 6009-10 V 80 Surge corrent capacity V 80 Votage type V 90 Votage type V 90 Votage type V 90 Votage type V 90 Votage type	Number of poles (total)		2	
Ratei ansulan valage Ui V 2 Ratei ansulan valage Uimp K 4 Ratei ansulan valage Uimp A 5 Ratei ansulan valage Uimp A 03 Rated fault current C A Darrent funding class C 7 Rated short-circuit breaking capacity acc. EN 61009 K 0 Rated short-circuit breaking capacity lic E0847-2 K 0 Rated short-circuit breaking capacity lic E0847-2 K 0 Surge current capacity K Not-time delayed Surge current capacity Not Not-time delayed Surge current current current current curren	Number of protected poles		2	
Retar inputse within a douting building bui	Rated voltage	V	240	
Rated current A S Rated fault current A S Leakage current type F S Current limiting class S S Rated short-circuit breaking capacity acc. EN 61009 F S Rated short-circuit breaking capacity lacc. EN 61009-10 F S Rated short-circuit breaking capacity lacc. EN 61009-10 F S Subschort-circuit breaking capacity lacc. EN 61009-10 F S Disconcercitor breaking capacity lacc. EN 61009-10 F S Surg current capacity S S S Surg current capacity S S S S Surg current capacity S	Rated insulation voltage Ui	V	250	
Retafiation A B Retafiation B B Current limiting class G G G Retaf short-circuit breaking capacity ICE 60847-2 A B Rated short-circuit breaking capacity ICE 60847-2 A B Disconnection characteristic M B Surg current capacity ICE 60847-2 M B Vitage type KA B Surg current capacity ICE 60847-2 KA B Vitage type KA B Surg current capacity ICE 60847-2 KA B Vitage type KA B B Surg current capacity ICE 60847-2 KA B B Vitage type KA B	Rated impulse withstand voltage Uimp	kV	4	
Lakage current typeFerLakage current type66Current limiting class66Reted short-circuit breaking capacity IEC 60947-260Bated short-circuit breaking capacity IEC 60947-260Disconnection characteristic660Surge current capacity IEC 60947-260Surge current capacity IEC 609	Rated current	А	15	
Concertion Concerion Concerti	Rated fault current	А	0.03	
Retad shor-circuit breaking capacity IcC 6094-2 Image: Algorithm of the shing capacity IcC 6094-2 Retad shor-circuit breaking capacity IcC 6094-2 KA 0 Bisconection characteristic Sort-time delayed Sort-time delayed Surge current capacity KA 0 Vitage type Algorithm of the shing capacity IcC 6094-2 Sort-time delayed Notage type Sort-time delayed Sort-time delayed Vitage type Sort-time delayed Sort-time delayed Release characteristic Sort-time delayed Sort-time delayed Concurrently switching N-neutral Sort-time delayed Sort-time delayed Vita interlocking device Sort-time delayed Sort-time delayed Notage category Sort-time delayed Sort-time delayed Notage	Leakage current type		F	
Rate abort-circuit breaking capacity IEC 60947-2 KA 0 Rated short-circuit breaking capacity ICE 60947-2 KA 0 Disconnection characteristic Short-time delayed Short-time delayed Surge current capacity Short-time delayed Short-time delayed Voltage type AC Short-time delayed Frequency Short-time delayed Short-time delayed Release characteristic Short-time delayed Short-time delayed Concurrently switching N-neutral Short-time delayed Short-time delayed Vitage type Short-time delayed Short-time delayed Voltage category Short-time delayed Short-time delayed Vitage type Short-time delayed Short-time delayed Vitage category Short-time delayed Short-time delayed Vitage type Short-time de	Current limiting class		3	
Rated short-circuit breaking capacity lon acc. EN 61009-1 kA 0 Disconnection characteristic Short-time delayed Surge current capacity KA 3 Voltage type KA 6 Frequency KA 6 Release characteristic C 6 Concurrently switching N-neutral KA No Vitage type No 7 Pollution degree 2 9 Nubient temperature during operating C 2 With innumber of modular spacings Moment 2 Suitable for flush-mounted installation Moment No Anti-insiance triping version Ka No Digree of protection (IP) Ka No Connectable conductor cross section solid-core Moment 12	Rated short-circuit breaking capacity acc. EN 61009	kA	10	
Disconnection characteristic Marking Mont-time delayed Surge current capacity Sint-time delayed Voltage type Sint-time delayed Frequency C Release characteristic Sint-time delayed Concurrently switching N-neutral Sint-time delayed Voltage type Sint-time delayed Poleus category Sint-time delayed Pollution degree Sint-time delayed Muth interporature during operating Sint-time delayed Voltage tripping version Sint-time delayed Suitable for flush-mounted installation Sint-time delayed Anti-nuisance tripping version Sint-time delayed Degree of protection (IP) Sint-time delayed Sint-time delayed Sint-time delayed Sint-time delayed to consistencion Solid-core Sint-time delayed	Rated short-circuit breaking capacity IEC 60947-2	kA	0	
Surge current capacity KA A Voltage type C C Frequency 50 H2 C Release characteristic C C Concurrently switching N-neutral C C With interlocking device No C Over voltage category C S Pollution degree C S Mith interlocking device C S Voltage type S S Pollution degree C S Motint temperature during operating C S With in number of modular spacings Mon S Suitable for flush-mounted installation Mon S Anti-nuisance tripping version C S S Degree of protection (IP) C Mon S Concettable conductor cross section solid-core mon 125	Rated short-circuit breaking capacity Icn acc. EN 61009-1	kA	10	
Voltage type AC Frequency 50 Hz Release characteristic 50 Hz Concurrently switching N-neutral 6 With interlocking device No Over voltage category 8 Pollution degree 2 Ambient temperature during operating 6 Vith interlocking texters 2 Suitable for flush-mounted installation 7 Anti-nuisance tripping version 6 Degree of protection (IP) man Ponentable conductor cross section solid-core man	Disconnection characteristic		Short-time delayed	
Frequency 6 6 50 Hz Release characteristic C C Concurrently switching N-neutral No C With interlocking device No C Over voltage category S S Pollution degree C S S Mith interlocking operating C S S Vidth in number of modular spacings Mo S S Suitable for flush-mounted installation Mo S S Anti-nuisance tripping version Mo S S S Degree of protection (IP) Mo Mo S S Romettable conductor cross section solid-core mm² 125 S	Surge current capacity	kA	3	
Release characteristic Concurrently switching N-neutral Concurrently switching N-neutral No With interlocking device No No Over voltage category So So Pollution degree So So With in number of modular spacings So So Built-in depth mm Co Suitable for flush-mounted installation Mo So Anti-nuisance tripping version So So Degree of protection (IP) mm² To Suncetable conductor cross section solid-core mn² To	Voltage type		AC	
Concurrently switching N-neutral No With interlocking device No Over voltage category Second Pollution degree C 3 Ambient temperature during operating C 2 With in number of modular spacings Mo 2 Built-in depth mm 7 Stable for flush-mounted installation Mo No Anti-nuisance tripping version Mo 9 Degree of protection (IP) Mn 12 Panceable conductor cross section solid-core mm² 125	Frequency		50 Hz	
With interlocking deviceNoOver voltage category5Pollution degree5Ambient temperature during operating6With in number of modular spacings6Built-in depth7Suitable for flush-mounted installation6Anti-nuisance tripping version6Degree of protection (IP)102No125No125Internet of the space of protection space of protect	Release characteristic		С	
Normalization Normalization Normalization Normalization Normalization Normalization Normalization Normalization Normalization Nutable for flush-mounded installation Normalization Normalization Normalization Normalization Anti-nuisance tripping version Normalization Normalization Normalization Degree of protection (IP) Image normalization Normalization Normalization Image normalization Normalization Normalization Normalization Normalization	Concurrently switching N-neutral		No	
Pollution degreePollution degreePollu	With interlocking device		No	
Ambient temperature during operating PC 25 - 40 Width in number of modular spacings PC 2 Buit-in depth mm 70 Suitable for flush-mounted installation MM M Anti-nuisance tripping version MM M Degree of protection (IP) Imm 120 Connectable conductor cross section solid-core MM 125	Over voltage category		3	
Width in number of modular spacingsAnti-nuisance tripping versionAnti-nuisance tripping versionMathematical anti-nuisance tripping	Pollution degree		2	
Built-in depth mm 70 Suitable for flush-mounted installation M M Anti-nuisance tripping version M M Degree of protection (IP) Mn ² IP0 Connectable conductor cross section solid-core Mn ² 1.25	Ambient temperature during operating	°C	-25 - 40	
Suitable for flush-mounted installation Mo Anti-nuisance tripping version Mo Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1-25	Width in number of modular spacings		2	
Anti-nuisance tripping versionMarkMarkYesDegree of protection (IP)IP20Connectable conductor cross section solid-coremm²1-25	Built-in depth	mm	70	
Degree of protection (IP) IP20 Connectable conductor cross section solid-core mm² 1 - 25	Suitable for flush-mounted installation		No	
Connectable conductor cross section solid-core mm ² 1 - 25	Anti-nuisance tripping version		Yes	
	Degree of protection (IP)		IP20	
Connectable conductor cross section multi-wired mm ² 1 - 25	Connectable conductor cross section solid-core	mm ²	1 - 25	
	Connectable conductor cross section multi-wired	mm²	1 - 25	