

## List No. NXSB20AFD

## NH/NM/NMX

20A 30mA SPswN B Curve 6kA Type A Miniature Bi-Directional AFDD RCBO



- Single module, Miniature Bi-Directional AFDD RCBO combined
- 20A B curve (MCB), 30mA Type A (RCD)
- Single pole with switched neutral
- No miss busbar connection
- Fits NM & NMX consumer units and NH L range Distribution Boards

Number of poles (total)         2           Number of protected poles         1           Rated voltage         230 V           Rated insulation voltage Ui         400 V           Rated insulation voltage Uimp         4 kV           Rated current         20 A           Rated fault current         0.03 A           Leakage current type         A           Current limiting class         3           Rated short-circuit breaking capacity Icn according to EN 61009-1         6 kA           Floosunection characteristic         Undelayed           Voltage type         AC           Frequency         50 Hz           Release characteristic         B           Concurrently switching neutral conductor         Yes           With interlocking device         No           Over voltage category         3           Ambient temperature during operating         -5 - 40 °C           Width in number of modular spacings         1           Built-in depth         73 mm           Flush-mounted installation         No           Anti-nuisance tripping version         No           Degree of protection (IP)         IP20           Connectable conductor cross section solid-core         .75-16 mm²	Product Specification Data	Revision Date: 01/03/2024
Rated voltage         230 V           Rated insulation voltage Ui         400 V           Rated dimpulse withstand voltage Uimp         4 kV           Rated current         20 A           Rated fault current type         A           Leakage current type         A           Current limiting class         3           Rated short-circuit breaking capacity Icn according to EN 61009-1         6 kA           510connection characteristic         Undelayed           Voltage type         AC           Frequency         50 Hz           Release characteristic         B           Concurrently switching neutral conductor         Yes           With interlocking device         No           Over voltage category         3           Ambient temperature during operating         -5 - 40 °C           Width in number of modular spacings         1           Built-in depth         73 mm           Flush-mounted installation         No           Anti-nuisance tripping version         No           Degree of protection (IP)         IP20           Connectable conductor cross section solid-core         .75-16 mm²           Connectable conductor cross section multi-wired         .75-16 mm²           Product Standard/s	Number of poles (total)	2
Rated insulation voltage Ui         400 V           Rated impulse withstand voltage Uimp         4 kV           Rated current         20 A           Rated fault current         0.03 A           Leakage current type         A           Current limiting class         3           Rated short-circuit breaking capacity Icn according to EN 61009-1         6 kA           61009-1         4           Disconnection characteristic         Undelayed           Voltage type         AC           Frequency         50 Hz           Release characteristic         B           Concurrently switching neutral conductor         Yes           With interlocking device         No           Over voltage category         3           Ambient temperature during operating         -5 - 40 °C           Width in number of modular spacings         1           Built-in depth         73 mm           Flush-mounted installation         No           Anti-nuisance tripping version         No           Degree of protection (IP)         IP20           Connectable conductor cross section solid-core         .75-16 mm²           Connectable conductor cross section multi-wired         .75-16 mm²           Product Standard/s         IEC 6	Number of protected poles	1
Rated impulse withstand voltage Uimp         4 kV           Rated current         20 A           Rated fault current         0.03 A           Leakage current type         A           Current limiting class         3           Rated short-circuit breaking capacity Icn according to EN 61009-1         6 kA           Disconnection characteristic         Undelayed           Voltage type         AC           Frequency         50 Hz           Release characteristic         B           Concurrently switching neutral conductor         Yes           With interlocking device         No           Over voltage category         3           Ambient temperature during operating         -5 - 40 °C           Width in number of modular spacings         1           Built-in depth         73 mm           Flush-mounted installation         No           Anti-nuisance tripping version         No           Degree of protection (IP)         IP20           Connectable conductor cross section solid-core         .75-16 mm²           Connectable conductor cross section multi-wired         .75-16 mm²           Product Standard/s         IEC 61009-1, BS EN 62606           CE Conformity         Yes	Rated voltage	230 V
Rated current       20 A         Rated fault current       0.03 A         Leakage current type       A         Current limiting class       3         Rated short-circuit breaking capacity Icn according to EN 61009-1       6 kA         Disconnection characteristic       Undelayed         Voltage type       AC         Frequency       50 Hz         Release characteristic       B         Concurrently switching neutral conductor       Yes         With interlocking device       No         Over voltage category       3         Ambient temperature during operating       -5 - 40 °C         Width in number of modular spacings       1         Built-in depth       73 mm         Flush-mounted installation       No         Anti-nuisance tripping version       No         Degree of protection (IP)       IP20         Connectable conductor cross section solid-core       .75-16 mm²         Connectable conductor cross section multi-wired       .75-16 mm²         Product Standard/s       IEC 61009-1, BS EN 62606         CE Conformity       Yes	Rated insulation voltage Ui	400 V
Rated fault current Leakage current type A Current limiting class 3 Rated short-circuit breaking capacity Icn according to EN 61009-1 Disconnection characteristic Undelayed Voltage type AC Frequency 50 Hz Release characteristic B Concurrently switching neutral conductor With interlocking device No Over voltage category 3 Ambient temperature during operating Vifth in number of modular spacings 1 Built-in depth T3 mm Flush-mounted installation No Anti-nuisance tripping version No Connectable conductor cross section solid-core Connectable conductor cross section multi-wired Product Standard/s EEC 61009-1, BS EN 62606 CE Conformity	Rated impulse withstand voltage Uimp	4 kV
Leakage current type       A         Current limiting class       3         Rated short-circuit breaking capacity Icn according to EN 61009-1       6 kA         Disconnection characteristic       Undelayed         Voltage type       AC         Frequency       50 Hz         Release characteristic       B         Concurrently switching neutral conductor       Yes         With interlocking device       No         Over voltage category       3         Ambient temperature during operating       -5 - 40 °C         Width in number of modular spacings       1         Built-in depth       73 mm         Flush-mounted installation       No         Anti-nuisance tripping version       No         Degree of protection (IP)       IP20         Connectable conductor cross section solid-core       .75-16 mm²         Connectable conductor cross section multi-wired       .75-16 mm²         Product Standard/s       IEC 61009-1, BS EN 62606         CE Conformity       Yes	Rated current	20 A
Current limiting class       3         Rated short-circuit breaking capacity Icn according to EN 61009-1       6 kA         Disconnection characteristic       Undelayed         Voltage type       AC         Frequency       50 Hz         Release characteristic       B         Concurrently switching neutral conductor       Yes         With interlocking device       No         Over voltage category       3         Ambient temperature during operating       -5 - 40 °C         Width in number of modular spacings       1         Built-in depth       73 mm         Flush-mounted installation       No         Anti-nuisance tripping version       No         Degree of protection (IP)       IP20         Connectable conductor cross section solid-core       .75-16 mm²         Connectable conductor cross section multi-wired       .75-16 mm²         Product Standard/s       IEC 61009-1, BS EN 62606         CE Conformity       Yes	Rated fault current	0.03 A
Rated short-circuit breaking capacity Icn according to EN 61009-1  Disconnection characteristic  Undelayed  Voltage type  AC  Frequency  50 Hz  Release characteristic  B  Concurrently switching neutral conductor  Yes  With interlocking device  No  Over voltage category  3  Ambient temperature during operating  -5 - 40 °C  Width in number of modular spacings  1  Built-in depth  73 mm  Flush-mounted installation  No  Anti-nuisance tripping version  Degree of protection (IP)  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  Yes	Leakage current type	A
61009-1  Disconnection characteristic  Voltage type  AC  Frequency  Frequency  Release characteristic  B  Concurrently switching neutral conductor  With interlocking device  Over voltage category  Ambient temperature during operating  Width in number of modular spacings  Built-in depth  Flush-mounted installation  Anti-nuisance tripping version  Degree of protection (IP)  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  Vac  Voltage type  AC  No  No  Act  Act  AC  Ves  B  B  CO  AC  AC  AC  AC  AC  AC  AC  AC  AC	Current limiting class	3
Voltage typeACFrequency50 HzRelease characteristicBConcurrently switching neutral conductorYesWith interlocking deviceNoOver voltage category3Ambient temperature during operating-5 - 40 °CWidth in number of modular spacings1Built-in depth73 mmFlush-mounted installationNoAnti-nuisance tripping versionNoDegree of protection (IP)IP20Connectable conductor cross section solid-core.75-16 mm²Connectable conductor cross section multi-wired.75-16 mm²Product Standard/sIEC 61009-1, BS EN 62606CE ConformityYes		6 kA
Frequency  Release characteristic  B  Concurrently switching neutral conductor  With interlocking device  No  Over voltage category  Ambient temperature during operating  -5 - 40 °C  Width in number of modular spacings  1  Built-in depth  73 mm  Flush-mounted installation  No  Anti-nuisance tripping version  Degree of protection (IP)  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  50 Hz  No  No  1  1  1  1  1  1  1  1  1  1  1  1  1	Disconnection characteristic	Undelayed
Release characteristic  Concurrently switching neutral conductor  With interlocking device  No  Over voltage category  Ambient temperature during operating  -5 - 40 °C  Width in number of modular spacings  1  Built-in depth  73 mm  Flush-mounted installation  No  Anti-nuisance tripping version  Degree of protection (IP)  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  LEC 61009-1, BS EN 62606  CE Conformity  Yes	Voltage type	AC
Concurrently switching neutral conductor  With interlocking device  No Over voltage category  Ambient temperature during operating  -5 - 40 °C  Width in number of modular spacings  1  Built-in depth  73 mm  Flush-mounted installation  No Anti-nuisance tripping version  Degree of protection (IP)  IP20  Connectable conductor cross section solid-core  75-16 mm²  Connectable conductor cross section multi-wired  Product Standard/s  IEC 61009-1, BS EN 62606  CE Conformity  Yes	Frequency	50 Hz
With interlocking deviceNoOver voltage category3Ambient temperature during operating-5 - 40 °CWidth in number of modular spacings1Built-in depth73 mmFlush-mounted installationNoAnti-nuisance tripping versionNoDegree of protection (IP)IP20Connectable conductor cross section solid-core.75-16 mm²Connectable conductor cross section multi-wired.75-16 mm²Product Standard/sIEC 61009-1, BS EN 62606CE ConformityYes	Release characteristic	В
Over voltage category  Ambient temperature during operating  -5 - 40 °C  Width in number of modular spacings  1  Built-in depth  73 mm  Flush-mounted installation  No  Anti-nuisance tripping version  Degree of protection (IP)  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  3  And CC  No  1  1  1  1  1  1  1  1  1  1  1  1  1	Concurrently switching neutral conductor	Yes
Ambient temperature during operating  -5 - 40 °C  Width in number of modular spacings  1  Built-in depth  73 mm  Flush-mounted installation  No  Anti-nuisance tripping version  Degree of protection (IP)  IP20  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  -5 - 40 °C  1  1  Conmetable conductor space of many conductor cross section solid-core  75 - 16 mm²  IEC 61009-1, BS EN 62606  Yes	With interlocking device	No
Width in number of modular spacings  Built-in depth  73 mm  Flush-mounted installation  Anti-nuisance tripping version  Degree of protection (IP)  IP20  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  1  73 mm  No  No  No  1  1  1  72  1  1  1  1  1  1  1  1  1  1  1  1  1	Over voltage category	3
Built-in depth 73 mm  Flush-mounted installation No  Anti-nuisance tripping version No  Degree of protection (IP) IP20  Connectable conductor cross section solid-core .75-16 mm²  Connectable conductor cross section multi-wired .75-16 mm²  Product Standard/s IEC 61009-1, BS EN 62606  CE Conformity Yes	Ambient temperature during operating	-5 - 40 °C
Flush-mounted installation  Anti-nuisance tripping version  Degree of protection (IP)  IP20  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  No  No  No  IP20  IP20  IP20  IP30  IFC 61009-1, BS EN 62606  Yes	Width in number of modular spacings	1
Anti-nuisance tripping version  Degree of protection (IP)  IP20  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  No  IP20  75-16 mm²  75-16 mm²  IEC 61009-1, BS EN 62606  Yes	Built-in depth	73 mm
Degree of protection (IP)  Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  IP20  .75-16 mm²  .75-16 mm²  IEC 61009-1, BS EN 62606  Yes	Flush-mounted installation	No
Connectable conductor cross section solid-core  Connectable conductor cross section multi-wired  Product Standard/s  CE Conformity  75-16 mm²  IEC 61009-1, BS EN 62606  Yes	Anti-nuisance tripping version	No
Connectable conductor cross section multi-wired .75-16 mm²  Product Standard/s IEC 61009-1, BS EN 62606  CE Conformity Yes	Degree of protection (IP)	IP20
Product Standard/s IEC 61009-1, BS EN 62606 CE Conformity Yes	Connectable conductor cross section solid-core	.75-16 mm <sup>2</sup>
CE Conformity Yes	Connectable conductor cross section multi-wired	.75-16 mm <sup>2</sup>
·	Product Standard/s	IEC 61009-1, BS EN 62606
WEEE Symbol Yes	CE Conformity	Yes
	WEEE Symbol	Yes

Although every effort has been made to ensure accuracy in the compilation of the technical detail within this datasheet, specifications and performance data are constantly changing. Latest details can be obtained from the Electrium website.

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Revision Date: 01/03/2024

**UKCA** Conformity

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