



DATA SHEET FOR 1 MODULE MINIATURE RCBO

Catalogue Numbers: NHXS1C06, NHXS1C10, NHXS1C16, NHXS1C20, NHXS1C32 and NHXS1C40.

Series	Residual current circuit breaker with over current protection
Poles	1P+ SwNeutral
Rated current In	6A to 40A
Residual current	30 mA
Curve Characteristic	C (5-10 In)
Terminal capacity flexible/rigid cable	Line 25 mm ² (Max) Load 16mm ² (Max)
Connection Torque Input Line	2.5 - 3 Nm (22 - 26 lbf-in)
Connection Torque Output Load	1.2 – 2 Nm (10.6 - 17.7lbf-in)
Rated current in /IEC, DIN/VDE/ at 10A, 40 Celsius	9.4A
Electrical service life	20000/10000
Selectivity class	3
Nominal voltage Un	240 V
Approval/norm	BS EN 61009
Differential making and breaking capacity	I(delta)m = 10000A
Short circuit capacity	Inc = 6000A at 230V
Series	Series A
Nuisance Tripping Resistance	250A 8/20 ms
Ambient Temperature	-25 up to 55°C



- **Safe and reliable**
 - High degree of touch protection IP20
 - Safety terminals
 - Real contact position indicator
- **User friendly**
 - Easy DIN rail fixing and extraction
- **Multifunctional**
 - Common devices for all products
- **6kA Short circuit rating**
- **30mA Trip sensitivity for protection of personnel and property**
- **Push to test button**
- **Ratings from 6 to 40A**
- **2 pole switching Line and Neutral**



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MODEL	
Product brand name	RCBO
Product designation	NHXS
GENERAL TECHNICAL DATA	
Number of poles	2
Number of poles / Note	1P+N
Number of poles / with protection	1
Tripping characteristics class	B or C
RCD type	A
Mechanical service life (switching cycles) / typical	10,000
Overvoltage category	III
PRODUCT FUNCTION	
Product function / neutral conductor switching	Yes
VOLTAGE	
Surge current resistance / at (8/20) μ s	1kA
SUPPLY VOLTAGE	
• at AC / rated value	240V
• for testing equipment / minimum	195V
Supply voltage frequency / rated value	50Hz
PROTECTION CLASS	
Protection class IP	IP20
Energy limiting class	3
SWITCHING CAPACITY CURRENT	
• acc. to EN 60898 / rated value	6kA
DISSIPATION	
Power loss (W)	
• for rated value of the current / at AC / in hot operating state / per pole	1.5W
• maximum	2.6W
ELECTRICITY	
Tripping residual current / rated value	30mA
Rated current in / IEC, DIN/VDE / at 40 cel	9.4A
Current / at AC / rated value	6A - 40A
CONNECTIONS	
Connectable conductor cross-section / stranded	
• minimum	0.75mm ²
• maximum	16mm ²
Connectable conductor cross-section	
• solid - minimum	0.75mm ²
• solid - maximum	16mm ²
• finely stranded / with core end processing - minimum	0.75mm ²
TIGHTENING TORQUE / WITH SCREW-TYPE TERMINALS	
Line terminal	
• minimum	2.5Nm
• maximum	3.0Nm
Load terminal	
• minimum	1.2Nm
• maximum	2.0Nm
MECHANICAL DESIGN	
Height x Width x Depth	90mm x 18mm x 77mm
Mounting position	Any
Installation depth	70mm
Number of width units	1
Net weight	130g - 168g
ENVIRONMENTAL CONDITIONS	
Degree of pollution	2
Influence of the surrounding temperature	Maximum 95% humidity
Ambient Temperature	
• minimum	-25°C
• maximum	55°C
• during storage / minimum	-40°C
• during storage / maximum	75°C