



DATA SHEET FOR 1 MODULE MINIATURE RCBO

Catalogue Numbers: NHXS1B06, NHXS1B10, NHXS1B16, NHXS1B20, NHXS1B25, NHXS1B32 and NHXS1B40.

Series	Residual current circuit breaker with over current protection
Poles	1P+ SwNeutral
Rated current In	6A to 40A
Residual current	30 mA
Curve Characteristic	B (3-5 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	$I_{nc} = 6000A$ 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		RCBO
Product brand name		NHXS
Product designation		RCD operated circuit breaker
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