



MCBs - Technical Data

MODEL	RCBO	MCB
Product brand name	NHXS	NHXL
Product designation	RCD operated circuit breaker	Miniature circuit breaker
GENERAL TECHNICAL DATA		
Product standard	IEC 61009-1	BS EN 60898-1
Number of poles	2	1
Number of poles / Note	1P+N	1P
Number of poles / with protection	1	1
Tripping characteristics class	B or C	B or C
RCD type	A	-
Mechanical service life (switching cycles) / typical	10,000	-
Overvoltage category	III	3
PRODUCT FUNCTION		
Product function / neutral conductor switching	Yes	N/A
VOLTAGE		
Surge current resistance / at (8/20) μ s	1kA	N/A
SUPPLY VOLTAGE		
• at AC / rated value	240V	250V
• for testing equipment / minimum	195V	-
Supply voltage frequency / rated value	50Hz	50Hz
PROTECTION CLASS		
Protection class IP	IP20	IP20
Energy limiting class	3	3
SWITCHING CAPACITY CURRENT		
• acc. to EN 60898 / rated value	6kA	6kA
DISSIPATION		
Power loss (W)		
• for rated value of the current / at AC / in hot operating state / per pole	1.5W	2.6W
• maximum	2.6W	2.6W
ELECTRICITY		
Tripping residual current / rated value	30mA	N/A
Current / at AC / rated value	6A - 40A	3A - 50A
CONNECTIONS		
Connectable conductor cross-section / stranded		
• minimum	0.75mm ²	0.75mm ²
• maximum	16mm ²	25mm ²
Connectable conductor cross-section		
• solid - minimum	0.75mm ²	0.75mm ²
• solid - maximum	16mm ²	25mm ²
• finely stranded / with core end processing - minimum	0.75mm ²	0.75mm ²
TIGHTENING TORQUE / WITH SCREW-TYPE TERMINALS		
Line terminal		
• minimum	2.5Nm	2.3Nm
• maximum	3.0Nm	3.0Nm
Load terminal		
• minimum	1.2Nm	2.3Nm
• maximum	2.0Nm	3.0Nm
MECHANICAL DESIGN		
Height x Width x Depth	90mm x 18mm x 77mm	90mm x 18mm x 77mm
Mounting position	Any	Any
Installation depth	70mm	70mm
Number of width units	1	1
Net weight	130g - 168g	116g - 156g
ENVIRONMENTAL CONDITIONS		
Degree of pollution	2	2
Influence of the surrounding temperature	Maximum 95% humidity	Maximum 95% humidity
Ambient Temperature		
• minimum	-25°C	-25°C
• maximum	55°C	45°C
• during storage / minimum	-40°C	-40°C
• during storage / maximum	75°C	75°C