



MODEL	RCBO	MCB	AFD/RCBO
Product brand name	NHXS	NHXL	NXS
Product designation	RCD operated circuit breaker	Miniature circuit breaker	AFDD and RCBO
GENERAL TECHNICAL DATA			
Product standard	IEC 61009-1	BS EN 60898-1	BS EN 62606 & IEC 61009-1
Number of poles	2	1	2
Number of poles / Note	1P+N	1P	1P + N
Number of poles / with protection	1	1	1
Tripping characteristics class	B or C	B or C	B or C
RCD type	A	-	A
Mechanical service life (switching cycles) / typical	10,000	-	10,000
Overvoltage category	III	3	III
PRODUCT FUNCTION			
Product function / neutral conductor switching	Yes	N/A	Yes
VOLTAGE			
Surge current resistance / at (8/20) μ s	1kA	N/A	1kA
SUPPLY VOLTAGE			
• at AC / rated value	240V	250V	240V
• for testing equipment / minimum	195V	-	195V
Supply voltage frequency / rated value	50Hz	50Hz	50Hz
PROTECTION CLASS			
Protection class IP	IP20	IP20	IP20
Energy limiting class	3	3	3
SWITCHING CAPACITY CURRENT			
• acc. to EN 60898 / rated value	6kA	6kA	
ELECTRICITY			
Tripping residual current / rated value	30mA	N/A	30mA
Current / at AC / rated value	6A - 40A	3A - 50A	6A - 40A
CONNECTIONS			
Connectable conductor cross-section / stranded			
• minimum	0.75mm ²	0.75mm ²	0.75mm ²
• maximum	16mm ²	25mm ²	16mm ²
Connectable conductor cross-section			
• solid - minimum	0.75mm ²	0.75mm ²	0.75mm ²
• solid - maximum	16mm ²	25mm ²	16mm ²
• finely stranded / with core end processing - minimum	0.75mm ²	0.75mm ²	0.75mm ²
TIGHTENING TORQUE / WITH SCREW-TYPE TERMINALS			
Line terminal			
• minimum	2.5Nm	2.3Nm	2.5Nm
• maximum	3.0Nm	3.0Nm	3.0Nm
Load terminal			
• minimum	1.2Nm	2.3Nm	1.2Nm
• maximum	2.0Nm	3.0Nm	2.0Nm
MECHANICAL DESIGN			
Height x Width x Depth	90mm x 18mm x 77mm	90mm x 18mm x 77mm	90mm x 18mm x 77mm
Mounting position	Any	Any	DIN
Installation depth	70mm	70mm	70mm
Number of width units	1	1	1
Net weight	130g - 168g	116g - 156g	130g - 175g
Connection	Pozi No. 2 Screw	Pozi No. 2 Screw	Pozi No. 2 Screw
ENVIRONMENTAL CONDITIONS			
Degree of pollution	2	2	2
Influence of the surrounding temperature	Maximum 95% humidity	Maximum 95% humidity	Maximum 95% humidity
Ambient Temperature			
• minimum	-25°C	-25°C	-25°C
• maximum	55°C	45°C	55°C
• during storage / minimum	-40°C	-40°C	-40°C
• during storage / maximum	75°C	75°C	75°C