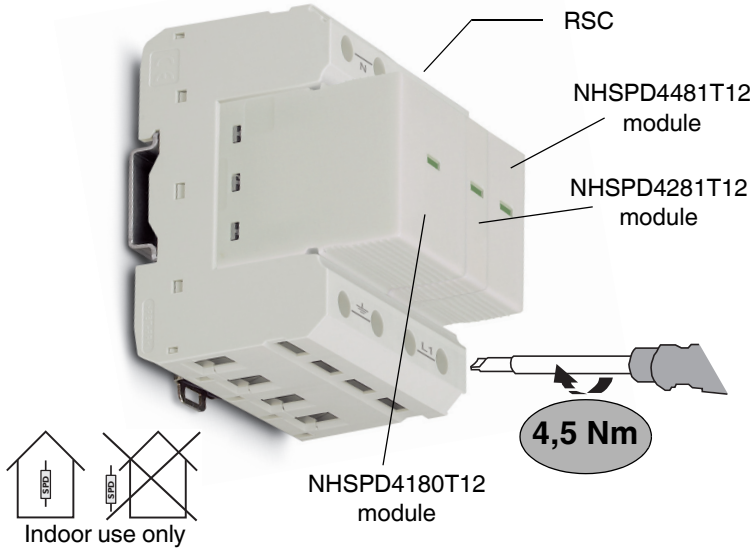


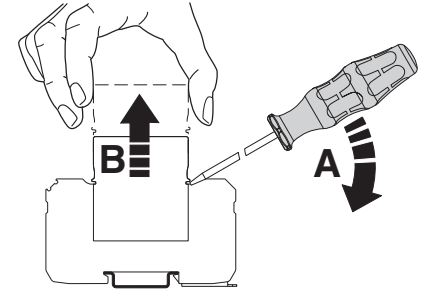
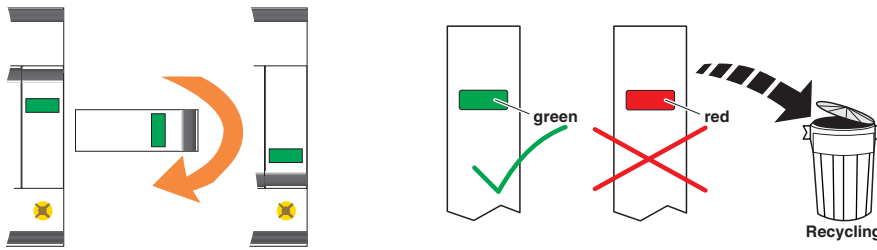


INSTALLATION INSTRUCTIONS

NHSPD4421T12



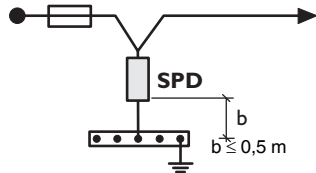
NHSPD4421T12	
protective system	TN-S / TT L1, N, PE
requirement class	B + C acc. to E DIN VDE 0675-6; SPD class I + II acc. to IEC 61643-11; SPD Type 1 + 2 acc. to EN 61643-11; UL 1449 3rd edition
lightning protection level	III / IV, 50 kA
max. continuous operating voltages U_C	350 V a.c. 50/60 Hz
nominal voltage U_N	230/400 V a.c. ... 240/415 V a.c. 50/60 Hz
lightning peak current I_{imp} (10/350) μ s	L-N / N-PE 25 kA / 100 kA
nominal discharge current I_n (8/20) μ s	L-N / N-PE 25 kA / 100 kA
protection level U_P	≤ 1.5 kV
short circuit current rating I_{SCCR}	25 kA _{eff} (264 V a.c.)
follow current interrupt rating I_{fi}	25 kA _{eff} (264 V a.c.)
operating temperature range	-40 °C ... +80 °C
degree of protection	IP20
max. backup fuse	Application A: 125 A gL/gG Application B: 315 A gL/gG
\varnothing min. L, N, PE	18 mm 2.5 mm ² 18 mm 2.5 mm ²
\varnothing max. L, N, PE	35 mm ² 25 mm ²
replacement plug in module	L-N N-PE NHSPD4281T12; NHSPD4481T12; NHSPD4180T12



TN-S / TT

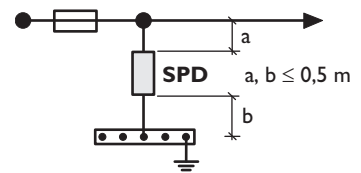
A

V-wiring
BS7671:2008 + A1:2011-534
DIN VDE 0100-534;
IEC 60364-5-53
 $\leq 0,5$ m preferred, max. 1 m



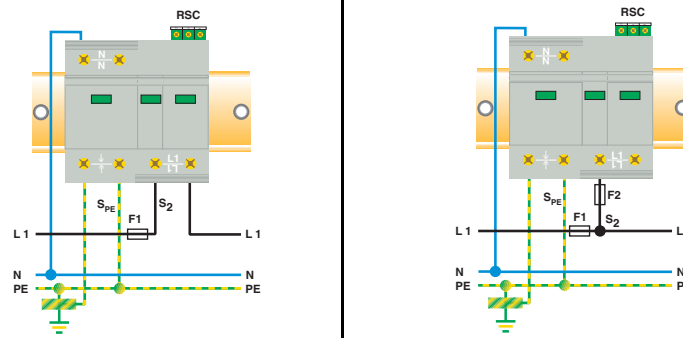
B

Stub wiring
BS7671:2008 + A1:2011-534
DIN VDE 0100-534 \Rightarrow (a, b $\leq 0,5$ m)
IEC 60364-5-53;
CEI 81-8:2002-02 \Rightarrow (a + b $\leq 0,5$ m)
 $\leq 0,5$ m preferred, max. 1 m



Backup Fuse

F1 A gL/gG	S ₂ mm ²	S _{PE} mm ²
25	10	16
35	10	16
40	10	16
50	10	16
63	10	16
80	16	16
100	25	16
125	35	16



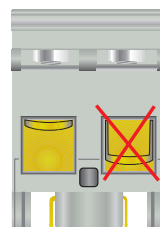
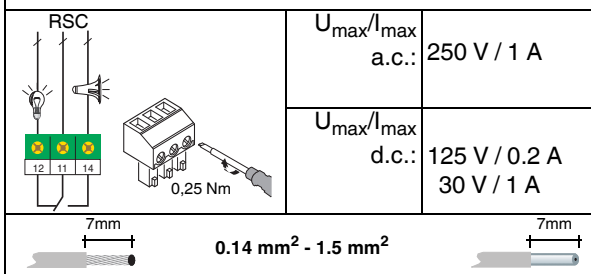
Backup Fuse

F1 A gL/gG	F2 A gL/gG	S ₂ mm ²	S _{PE} mm ²
25		10	16
35		10	16
40		10	16
50		10	16
63		10	16
80		10	16
100		16	16
125		16	16
160		25	25
200		35	35
250		35	35
315*	160	50	50
> 315		50	50

* max. fuse 315 A according to IEC 61643-11
fuse recommended by the manufacturer

Remote signalling contact

NHSPD4421T12



To ensure safe and reliable functioning, unoccupied terminal points should also be screwed tight.

Safety instructions
see back view



INSTALLATION INSTRUCTIONS

Electrium Sales Limited
Walkmill Lane, Cannock, WS11 0XE, England
Tel: 01543 455000
Fax: 01543 455001

NHSPD4421T12 are coordinated combination arresters on the AEC principle, consisting of pluggable NHSPD4481T12/NHSPD4180T12 lightning current arresters with encapsulated spark gaps and pluggable NHSPD4281T12 surge arresters on a varistor basis.



Safety notes

The device may only be connected and installed by a qualified electrician. The national rules and safety regulations must be observed (see also BS7671:2008). Country-specific regulations and laws must also be observed.
The device may only be used under the conditions shown and referred to in these installation instructions. Loads above the values indicated can lead to the destruction of the device and the electrical equipment connected.
The manufacturer's warranty no longer applies if the device is opened.

Insulation resistance measurements

Unplug all the protection modules before performing an insulation resistance measurement in the system. Otherwise inaccurate measurements are possible. Re-insert the plug modules into the base element after the insulation resistance measurement.