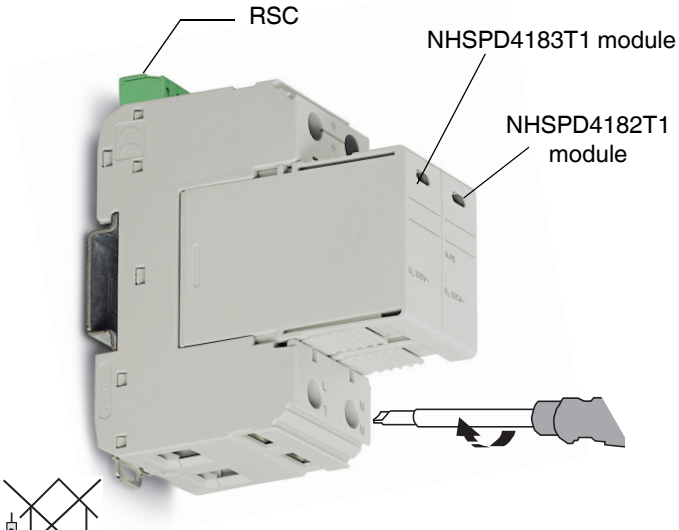
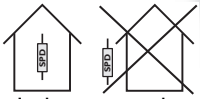
INSTALLATION INSTRUCTIONS

NHSPD4123T1

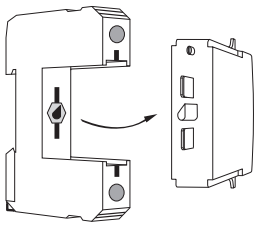


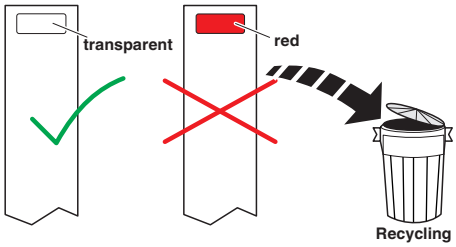


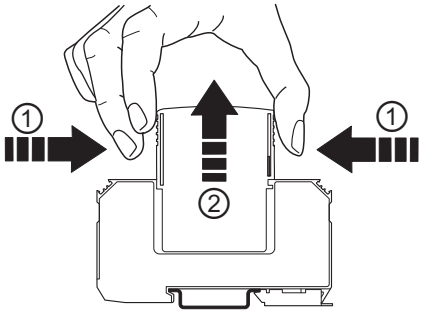
Indoor use only

	NHSPD4123T1
protective system	TN-S / TT / TN-C L, N, PE
requirement class	B, C acc. VDE 0675-6; SPD class I, II acc. IEC 61643-11; SPD Type 1, Type 2 acc. EN 61643-11
lightning protection level	III, IV
max. continuous operating voltage U_C	L-N: 335 V a.c / N-PE: 264 a.c.
nominal voltage U_N	230/400 V a.c. ... 240/415 V a.c. 50/60 Hz
lightning test current I_{imp} (10/350)µs per path	L-N: 12.5 kA / N-PE: 50 kA
nominal discharge surge current I_n (8/20)µs per path	L-N: 12,5 kA / N-PE: 50 kA
max. discharge surge current I_{max} (8/20)µs per path	L-N: 50 kA / N-PE: 50 kA
protection level U_p	L-N: ≤ 1,2 kV / N-PE: ≤ 1,7 kV
U_{TOV} (withstand, 5 sec. (L-N)/ withstand, 200 msec. (N-PE))	L-N: 415 V a.c. / N-PE: 1200 V a.c.
short circuit current rating I_{SCCR}	25 kA_{eff}
temperature range	-40 ... +80°C
degree of protection	IP20
max. backup fuse	160 A gL/gG
∅ min. L, N, PE	16 mm / 1.5 mm^2 / 16 mm / 1.5 mm^2
∅ max. L, N, PE	35 mm^2 / 25 mm^2
tightening torque	3 Nm (1,5 mm^2 ... 16 mm^2) 4,5 Nm (25 mm^2 ... 35 mm^2)
replacement plug in module	NHSPD4182T1 (N-PE) / NHSPD4183T1 (L-N)

Coding



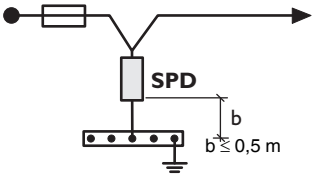


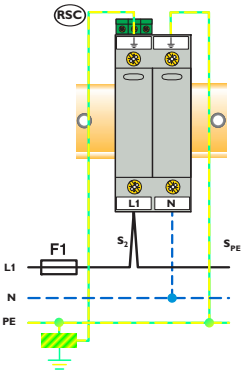


TN-S / TT

A

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



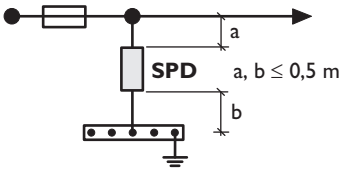


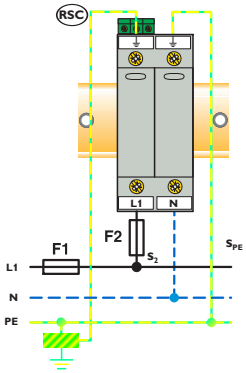
Backup Fuse

F1 A gL/gG	S_2 mm^2	S_{PE} mm^2
25	6	16
35	6	16
40	6	16
50	10	16
63	10	16
80	16	16

B

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

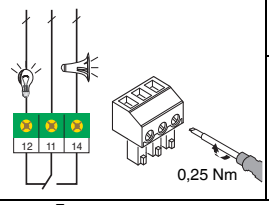




Backup Fuse

F1 A gL/gG	F2 A gL/gG	S_2 mm^2	S_{PE} mm^2
25		6	16
35		6	16
40		6	16
50		6	16
63		10	16
80		10	16
100		16	16
125		16	16
> 160	160	25	25

fuse recommended by the manufacturer

remote signalling contact		
NHSPD4123T1		
RSC 	U_{max}/I_{max} a.c.:	250 V/ 1.5 A
	U_{max}/I_{max} d.c.:	30 V/ 1.5 A
7mm	0.14 mm^2 - 1.5 mm^2	7mm

Safety instructions
see back view

INSTALLATION INSTRUCTIONS

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

The NHSPD4123T1 are lightning arresters with pluggable NHSPD4183T1 protection modules on varistor basis and an encapsulated NHSPD4182T1 spark gap.

⚠ 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.