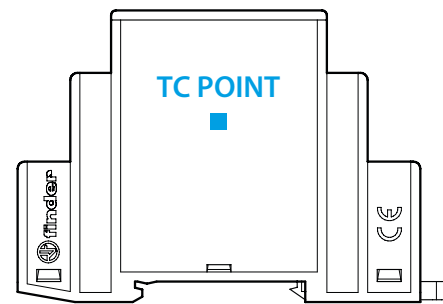




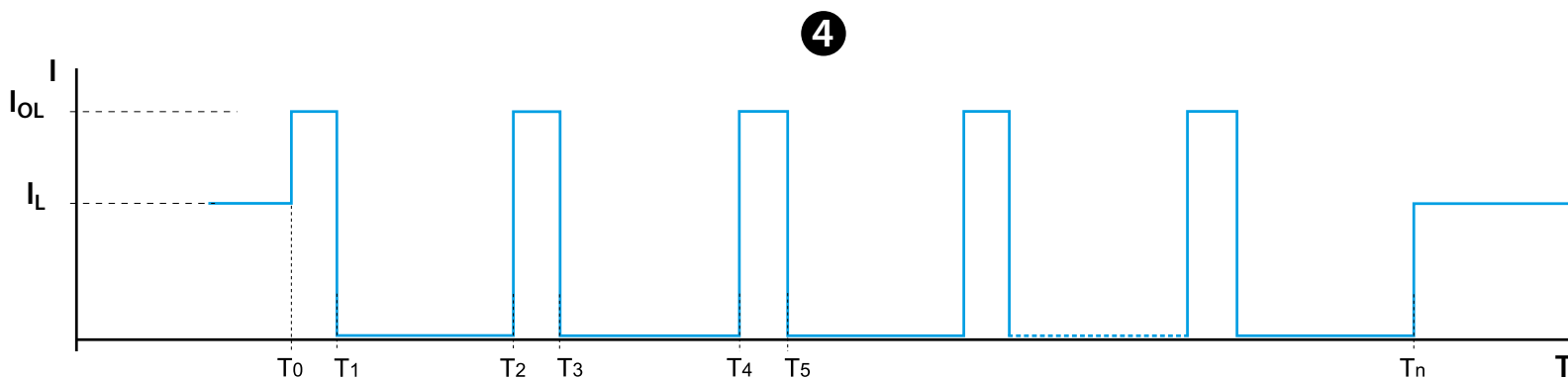
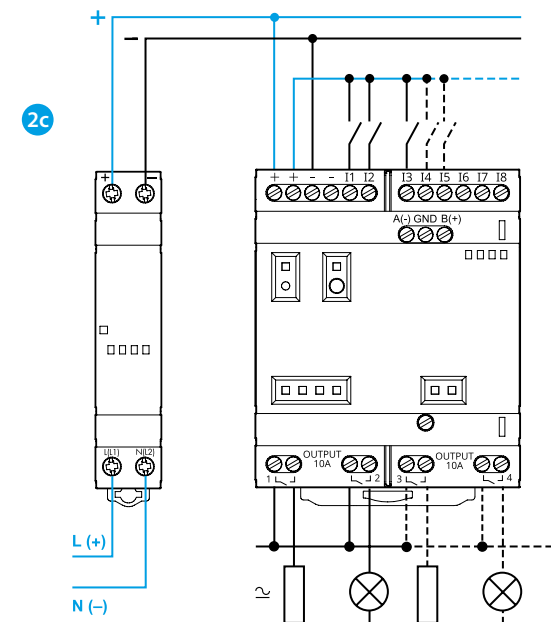
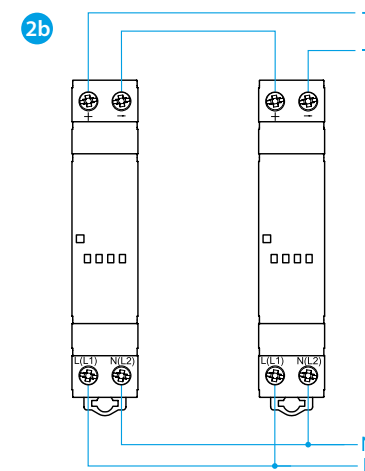
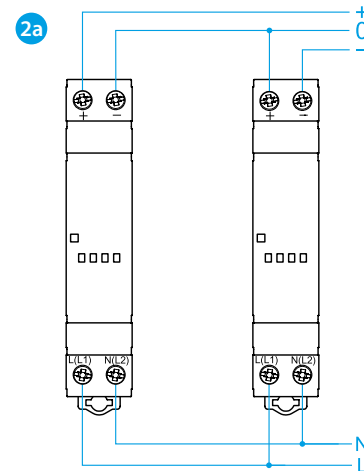
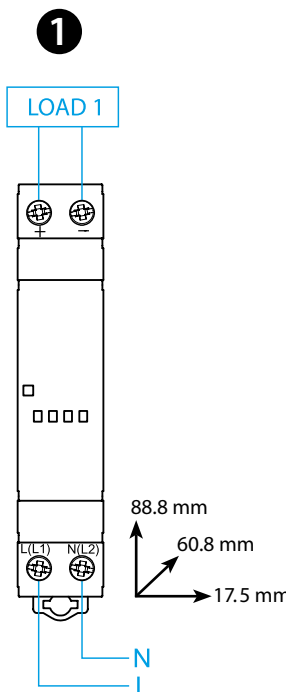
78.12

78.12.1.230.xxxx		
IN	78.12-1200 78.12-2400 78.12-2402 78.12-2482	U_N (110...240) V AC (50/60 Hz) $U_{min} - U_{max}$ (100 - 265) V AC ($I_{OUT} = I_N$) $U_{min} - U_{max}$ (88 - 100) V AC ($I_{OUT} = 80\% I_N$) $P < 0.4$ W
	78.12-1200 78.12-2400	U_N 220 V DC $U_{min} - U_{max}$ (140 - 370) V DC
	78.12-1200	1.25 A (max 3 A - 3 ms) 12 V DC, 15 W [(-20...+40)°C, IN 230 V AC] 1 A (max 3 A - 3 ms) 12 V DC, 12 W [50°C, IN (100...265)V AC - (140...370)V DC]
OUT	78.12-2400 78.12-2482	0.63 A (max 2 A - 3 ms) 24 V DC, 15 W [(-20...+40)°C, IN 230 V AC] 0.5 A (max 2 A - 3 ms) 24 V DC, 12 W [50°C, IN (100...265)V AC - (140...370)V DC]
OUT LED (Load)	78.12-2402 (LED driver)	0.5 A 24 V DC, 12 W (max 2 A - 3 ms)
	78.12-1200 78.12-2400	(-20...+50°C (I_N)...+60)°C
	78.12-2402	T_a (-20...+40)°C T_c 70°C T_a (-20...+50°C ...+60)°C
	78.12-2482	(-20...+50 °C ...+60)°C
IP20		

0.8 Nm 7,1 Lb-in		8mm	8mm
	78.12-1200 78.12-2400	(1x4/2x2.5) mm ² (1x12/2x14) AWG	(1x4/2x2.5) mm ² (1x12/2x14) AWG
	78.12-2402 (LED DRIVER)	(0.5...2.5) mm ² (20...14) AWG	(0.5...2.5) mm ² (20...14) AWG
	78.12-2402 78.12-2482 (GENERAL USE)	(0.5...4) mm ² (20...12) AWG Cu / CCA / Al-Cu / Cu-Al 85°C	(0.5...4) mm ² (20...12) AWG Cu / CCA / Al-Cu / Cu-Al 85°C



78.12.1.230.2402 Tc Point



78	U_N	LED
OK	✓	
Sh	✓	
ThL	✓	OFF

78.12-2402

78.12-2482

ENGLISH

78.12 SWITCH MODE POWER SUPPLY

- 1 WIRING DIAGRAM
- 2 WIRING DIAGRAM EXAMPLES
 - 2a Dual connection
 - 2b Series connection
 - 2c 78.12-2482 - type 8A-OPTA wiring
- 3 LED
 - U AC/DC Supply
 - AC Supply - 78.12.1.230.2402
 - Sh Short circuit
 - ThL Thermal limit
- 4 Hiccup mode (short circuit protection)
 - I_{OL} - Overload current
 - I_L - Load current

Under normal conditions, the 78 Series Power Supply supplies the current required by the load (I_L). However, under abnormal conditions (I_{OL}) such as a short circuit or heavy overload (T0) the output voltage will be rapidly reduced to zero followed by the current (T1). After approximately 2 seconds (T1 to T2), the power supply checks for the persistence of the anomaly over the time period T2 to T3 (30 to 100ms-dependent on the type of anomaly). If the anomaly persists, as shown above, the current is again reset to 0 A for a further 2s (T3 to T4). This "hiccup" process is repeated until the anomaly is removed (Tn), whereon the power supply then returns to normal working.

NOTE
Efficiency (@ 230 V AC) 85% (78.12-2400, 78.12-2402 and 78.12-2482).
Efficiency (@ 230 V AC) 87% (78.12-1200).
Conducted and radiated emissions: class B (EN 55022).
Thermal protection: internal, with Vout shutdown.
Start-up delay: <1s.

78.12.1.230.1200, 2400 and 2482:
These products can be used without special requirements concerning wiring. However, to ensure compliance with EN 61204-3: 2019, the length of the connection cables between the output terminals and the load must not exceed 30 m.

78.12.1.230.2402 (TUV approval statement):
This product can be used without special requirements concerning wiring. However, to ensure compliance with EN 61204-3: 2019, EN 61347-2-13, and EN 61347-1, the length of the connection cables between the output terminals and the load must not exceed 30 m. In accordance with EN 61347-1, Clause 7.1 k, reinforced insulation is provided between the output and all other live parts, and basic insulation applies between all internal live parts and the external surface of the casing. According to EN 61347-1 Clause 7.1 g, the LED driver relies on the luminaire enclosure for protection against accidental contact with live parts.

NOTE
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.