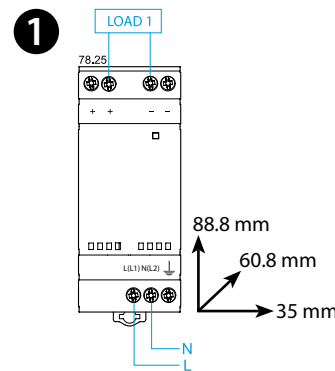
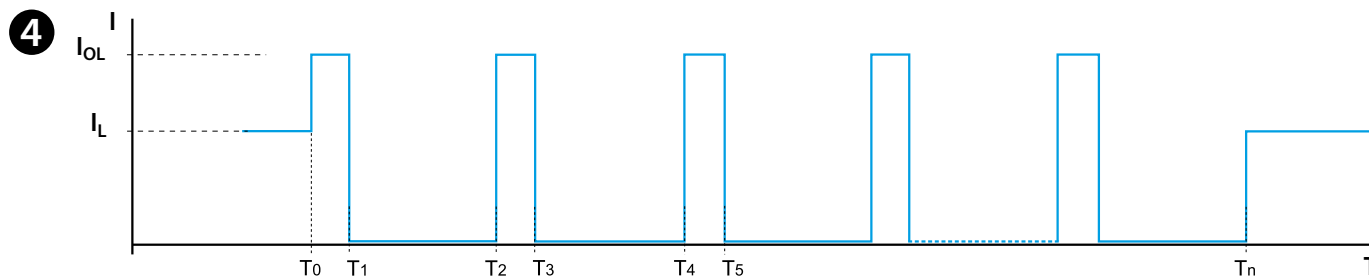
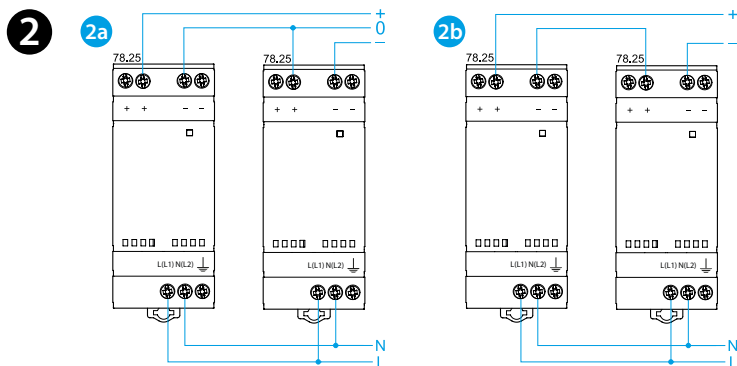




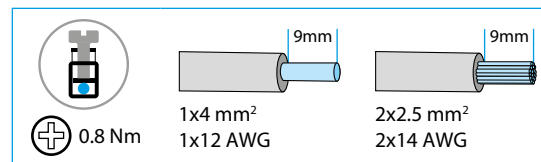
78.25

78.25.1.230.xx00	
<b>IN</b>	$U_N$ (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 ( $I_{OUT} = 80\% I_N$ ) $U_N$ 220 V DC $U_{min} - U_{max}$ (140-370) V DC $P < 0.5$ W (0.3 W 78-1200)
<b>OUT</b> (78.25-1200)	2.1 A (max 4 A - 3 ms) 12 VDC, 25 W [ $(-20...+40)^\circ\text{C}$ , IN 230 VAC] 1 A (max 4 A - 3 ms) 12 VDC, 25 W [ $50^\circ\text{C}$ , IN (100...265) VAC - (140...370) VDC]
<b>OUT</b> (78.25-2400)	1 A (max 3 A - 3 ms) 24 VDC, 25 W [ $(-20...+40)^\circ\text{C}$ , IN 230 VAC] 0.75 A (max 3 A - 3 ms) 24 VDC, 25 W [ $50^\circ\text{C}$ , IN (100...265) VAC - (140...370) VDC]
	$(-20...+60)^\circ\text{C}$
IP20	



3

78	$U_N$	LED
OK	✓	
Sh	✓	
ThL	✓	OFF



## ENGLISH

### 78.25 SWITCH MODE POWER SUPPLY

#### 1 WIRING DIAGRAM

#### 2 WIRING DIAGRAM EXAMPLES

- 2a Dual connection
- 2b Series connection

#### 3 LED

- $U_N$  AC/DC Supply
- 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 ( $T_0$ ) the output voltage will be rapidly reduced to zero followed by the current ( $T_1$ ).

After approximately 2 seconds ( $T_1$  to  $T_2$ ), the power supply checks for the persistence of the anomaly over the time period  $T_2$  to  $T_3$  (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 ( $T_3$  to  $T_4$ ).

This "hiccup" process is repeated until the anomaly is removed ( $T_n$ ), whereon the power supply then returns to normal working.

#### NOTE

Efficiency (@230VAC) 89%

Conducted and radiated emissions: class B (EN 55022)

Thermal protection: internal, with  $V_{out}$  shutdown

Start-up delay: <1s