

LS 800

8-channel power output module for heating control

Compact pre-wired unit for 8 heating circuits

SSR outputs protected with overload cut-outs
or ultra-rapid fuses

On-board heating current monitor (3-phase total current)

Galvanic isolation between controller and load circuits

Zero-voltage switching for load current

PROFILE

This 8-channel power control module is the link between the integrated KS 800 multiple temperature controller and the connected heating elements. The unit comes completely wired, and is fitted with the following components as standard:

- Solid-state relays
- Ultra-rapid fuses or overload cut-outs
- Current transformer for heating current monitoring
- Connecting terminals for heaters, temperature sensors, and supply voltages
- Heat sinks
- The KS 800 controller will be fitted on the standard rail (DIN 46 277) on LS 800.

Various versions of the LS 800 are available:

- with ultra-rapid fuses or overload cutouts (for protecting the SSRs)
- with or without heating current monitor
- for single or three-phase heating elements

APPLICATION

Temperature control via electrical heating elements in process and machine automation systems, particularly in the plastics processing industry and for hot runners.

TECHNICAL DATA

Nominal load voltage
400 VAC

Nominal load current
8 x 32 A

Power derating
0,5%/K above 20 °C

Isolating voltage
4000 Vrms (module)

Protection mode
IP 20

Operating class

AC 1

Ambient temperature

max. 55 °C

Overload cut-out

$3 \times I_{nom} < 0,2 \text{ s}$

Current monitoring

50 A current transformer with a ratio of 1000 : 1 (common transformer for all three phases)

Dimensions

306 x 330 x 180 mm (WxHxD)

Weight: approx. 8 kg

Accessories

Operating instructions

MOUNTING HINTS

When mounting the LS 800, it must be ensured that the power loss heat is removed via the rear heat sinks.

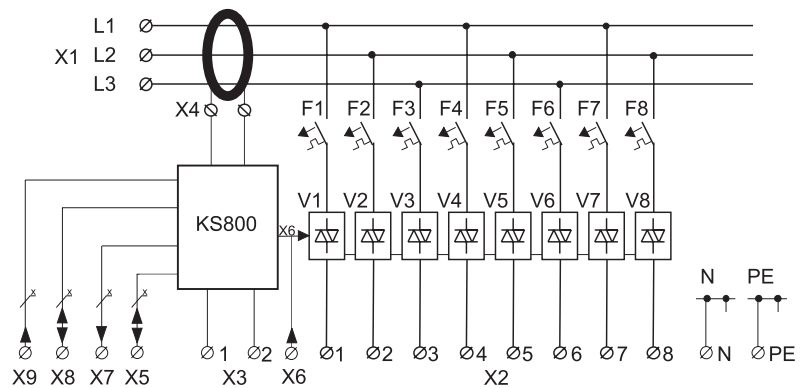
If natural convection is not sufficient, forced cooling must be provided.

All three leads of the 3-phase load supply must be passed through the current transformer.

Terminal allocation of LS 800

Signal	Terminal
Load supply L1	X1.1
Load supply L2	X1.2
Load supply L3	X1.3
Heater channel 1	X2.1
Heater channel 2	X2.2
Heater channel 3	X2.3
Heater channel 4	X2.4
Heater channel 5	X2.5
Heater channel 6	X2.6
Heater channel 7	X2.7
Heater channel 8	X2.8
Module supply 24 VDC	X3.1
Module supply 0 VDC	X3.2

Schematic diagram



ORDERING DATA

The equipment listed below is designed for single-phase heaters. Ordering data for three-phase heaters on request.

Description	Order no.
LS 800-RIS with overload cut-outs and 3-phase current transformer	9407 510 00001
LS 800-RS with overload cut-outs	9407 510 01001
LS 800-RI with ultra-rapid fuses and 3-phase current transformer	9407 510 50001
LS 800-R with ultra-rapid fuses	9407 510 51001

The KS 800 is not included in the LS 800 and must be ordered separately in the required version.

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