77 SERIES
Hockey puck Solid State Relays 25 - 40 - 50 A

25, 40 And 50 A panel SSR, "hockey puck" style

- "hockey puck" housing with cover
- 24 to 240 V AC output
- Zero-crossing version
- High switching speed
- High endurance
- Silent switching
- Spark and bounce-free switching
- Low control power
- 3-phase general purpose
- "Relay-style" terminal arrangement (input and output terminals on opposite sides)
- Mounting on heatsink with screws

77.x5
Screw terminal (plate clamp)

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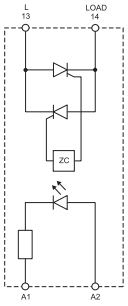
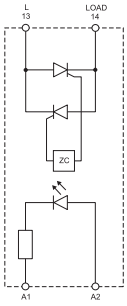
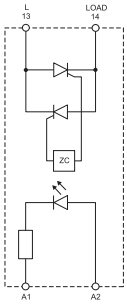
* See L77-11 diagrams page 13
** See L77-8, L77-9 and L77-10 diagrams page 13

For outline drawing see page 16

	77.25.x.xxx.8250	77.45.x.xxx.8250	77.55.x.xxx.8250
			
	Zero-crossing switch-on • Output: 25 A/230 V AC • Suggested applications: heater control	**Zero-crossing switch-on** • Output: 40 A/230 V AC • Suggested applications: heater control	**Zero-crossing switch-on** • Output: 50 A/230 V AC • Suggested applications: heater control
			
	Simplified circuit diagram	Simplified circuit diagram	Simplified circuit diagram
Output specification			
Output configuration	1 NO (SPST-NO)	1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current I_N/Max. peak current* (10 ms) A	25/300*	40/500*	50/520*
Rated voltage V AC (50/60 Hz)	230	230	230
Switching voltage range V AC (50/60 Hz)	21.6…280	21.6…280	21.6…280
Repetitive peak off-state voltage V_{pk}	600	600	600
Nominal lamp rating:			
230 V incandescent/halogen W	2000	4000	6000
fluorescent tubes with electronic ballast W	2000	4000	6000
fluorescent tubes with electromechanical ballast W	1000	2000	3000
CFL W	800	3000	4000
230 V LED W	800	3000	4000
LV halogen or LED with electronic ballast W	800	3000	4000
LV halogen or LED with electromechanical ballast W	1000	3000	4000
Minimum switching current @ 250 V mA	120	250	250
Typical "OFF-state" leakage current @ 250 V mA	10	10	10
Max "ON-state" voltage drop @ 25 °C and I_N V	1.6	1.6	1.6
Power loss @ I_N W	40	64	80
Input specification			
Nominal voltage (U_N) V AC (50/60 Hz)	— / 230	— / 230	— / 230
V DC	24 / —	24 / —	24 / —
Rated power @ U_{MAX} VA (50 Hz)/W	—/0.6 / 2.4/—	—/0.6 / 2.4/—	—/0.6 / 2.4/—
Operating range V AC (50/60 Hz)	— / 90…280	— / 90…280	— / 90…280
V DC	3…32 / —	3…32 / —	3…32 / —
Must drop-out voltage V AC (50/60 Hz)/DC	—/1 / 10/—	—/1 / 10/—	—/1 / 10/—
Technical data			
Electrical life cycles	$10 \cdot 10^6$	$10 \cdot 10^6$	$10 \cdot 10^6$
Operate/release time ms	10/10 / 40/80	10/10 / 40/80	10/10 / 40/80
Insulation between input and output (1.2/50 µs) kV	5.6	5.6	5.6
Ambient temperature °C	–30…+80**	–30…+80**	–30…+80**
Protection category	IP 20	IP 20	IP 20
Approvals (according to type)	CE EAC cULus		