

OV-24 DC/220 DC/1

Description	Type	Order No.	Pcs. Pkt.
Solid-state relay , for signal amplification and isolation of the control and load circuits, pluggable in the solder-in socket SIM-AMS or with p.c.b. connection for mounting directly onto the p.c.b. input/output: DC voltage	OV-24 DC/220 DC/1	29 04 00 7	25

Technical data**Input data**

Operating voltage range	3–32 V DC
Interrupting voltage	1 V DC
Input resistance	1000 Ohm

Output data

Operating voltage range	3–220 V DC
Max. continuous load current ¹⁾	1 A
Surge current	5 A (t = 1 s)
Voltage drop at max. load current	1.5 V
Collector – emitter reverse voltage	250 V DC
Leakage current in off condition	2 mA
Max. phase shift (inductive load)	2)
Output circuit ³⁾	polarity protection diode

General data

Insulation voltage input/output	4 kV _{rms}
Ambient temperature range	– 30 ° C to + 80 ° C
Insulation resistance	50 x 10 ⁹ Ohm
Switching time t _{in} /t _{out}	100 μs/750 μs
Transmission frequency f _{limit} (ohmic load)	600 Hz

Notes:

¹⁾ See load current diagram!

Curve is also valid for inductive loads up to cos. φ = 0.5

²⁾ For the protection of input and output circuits, inductive loads must be dampened with an effective protective circuit

³⁾ Switch-on time:

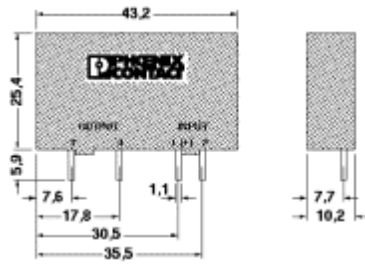
max. one half cycle (zero voltage)

Switch-off time:

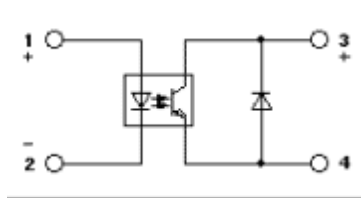
max. one half cycle (zero current)

⁴⁾ Not suitable for reversing circuits with synchronous motors
(special components available on request)

Dimensional drawing

**Block diagram**

Hole diameter 1.3

**Diagram**