



KL2701 | 1-channel solid state load relay up to 230 V AC/DC, 3 A

The KL2701 output terminal uses an electronic load relay to switch a mains voltage of up to 230 V AC/DC with an output current of 3 A. The switching element is a high-power MOSFET, which is connected to the power contact potential. As a semiconductor switch, it is not subject to wear. The KL2701 terminal has one independent output. Its signal state is indicated by means of a light emitting diode.

Technical data	KL2701 KS2701
Connection technology	2-/3-/4-wire
Number of outputs	1 x make contact
Nominal voltage	0...230 V AC/DC
Load type	ohmic, inductive
Max. output current	3 A steady load
Surge voltage protection	from 400 V AC
Peak current	5 A (20 s), 50 A (100 ms)
Switching current	peak current: 5 A (20 s), 50 A (100 ms)
Recommended fuse	≤ 10 A fast fuse
Contact resistance	0.1 Ω typ.
Switch-off time	2...4 ms
Max. residual voltage	(100 mΩ)
Electrical isolation	500 V (K-bus/field voltage), 2500 V AC (1 min.)
Leakage current (OFF state)	<< 1 mA
Switching speed	typ. 1.65 ms, 5 ms max.
Current consumption power contacts	only leakage and load current
Current consumption K-bus	typ. 65 mA
Bit width in the process image	2 outputs
Configuration	no address or configuration setting
Weight	approx. 55 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals	CE