



KL2702 | 2-channel solid state load relay up to 230 V AC/DC

The KL2702 output terminal uses an electronic load relay to switch a mains voltage of up to 230 V AC/DC. 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 KL2702 terminal has two independent outputs. Its signal state is indicated by means of light emitting diodes.

Technical data	KL2702 KS2702	KL2702-0020	KL2702-0002
Connection technology	2-/3-/4-wire		
Number of outputs	2 x make contacts	2 x make contacts	2 x make contacts, mutually locked
Rated load voltage	0...230 V AC/DC (DC...100 Hz)		
Load type	ohmic, inductive		
Max. output current	0.3 A per channel, individually short-circuit-proof	1.5 A steady load on each channel	2 A steady load on each channel
Frequency range	DC...100 Hz		
Surge voltage protection	from 400 V AC		
Peak current	0.5 A (20 s), 1.5 A (100 ms)	2.5 A (20 s), 7.5 A (100 ms)	2.5 A (20 s), 7.5 A (100 ms)
Contact resistance	2.1 Ω typ., 3.2 Ω max.	0.3 Ω typ., 0.4 Ω max.	0.3 Ω typ., 0.4 Ω max.
Switch-on time	4...6 ms	0.2...0.4 ms	0.2...0.4 ms
Switch-off time	0.05...0.1 ms	5...8 ms	5...8 ms
Switch-on delay	320 μs		
Switch-off delay	6.2 ms		
Max. residual voltage	(2.1 Ω)	(200 mΩ)	(300 mΩ)
Electrical isolation	500 V (K-bus/field voltage), 2500 V AC (1 min.)		
Leakage current (OFF state)	<< 1 mA		
Current consumption power contacts	only leakage and load current		
Current consumption K-bus	typ. 10 mA	typ. 50 mA	typ. 50 mA
Bit width in the process image	2 outputs		
Configuration	no address or configuration setting		
Special features	–	–	
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, UL, Ex, GL	CE	CE