



EL2798 | 8-channel digital output terminal 30 V AC/DC, 2 A, solid state

The digital EL2798 EtherCAT Terminal provides eight switches that can be used like a relay contact for AC/DC voltages. The electronic switch is realised through high-performance MOSFET transistors with low switch-on resistance. The switch itself is not short-circuit-proof, but due to its high pulse current capability it can cope with current until an external fuse triggers a switch-off. Wear resistance increases the availability of the application. Resistive and light inductive loads can be switched up to a rated voltage of 30 V AC/DC, completely resistive loads also up to a rated voltage of 48 V DC. High peak voltages and electromagnetic interference pulses are prevented.

Technical data	EL2798
Connection technology	2-wire
Number of outputs	8 x make contacts
Rated load voltage	0...30 V AC/DC (only ohmic load: 0...48 V DC)
Distributed clocks	–
Short circuit current	not short-circuit-proof, see peak current
Reverse voltage protection	–
Switching times	T _{ON} : typ. 1.8 ms, T _{OFF} : typ. 30 ms
Output current	2 A (Σ 10 A @ 55° C, see documentation)
Breakdown voltage	80 V
Peak current	5 A (100 ms), < 50 A (10 ms)
Isolation voltage (channel/channel)	< 200 V
Current consumption E-bus	typ. 140 mA
Electrical isolation	500 V (E-bus/field potential)
Switching on speed	typ. 1.8 ms, max. 5 ms
Switching off speed	typ. 30 ms, max. 50 ms
On-resistance	typ. 0.03 Ω
Conductor types	solid wire, stranded wire and ferrule
Conductor connection	solid wire conductors: direct plug-in technique; stranded wire conductors and ferrules: spring actuation by screwdriver
Rated cross-section	solid wire: 0.08...1.5 mm ² ; stranded wire: 0.25...1.5 mm ² ; ferrule: 0.14...0.75 mm ²
Special features	substitute for relay contacts; potential-free
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

Related products	
KL2798	8-channel digital output terminal, 30 V AC/DC, solid-state relay

