

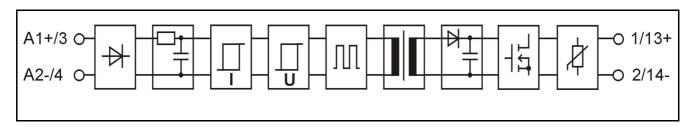
SLO 12CRA4

SL-series plug-in relay

Main features

- Solid state output relay
- CE (EMC and LVD)
- Integrated status LED
- For resistive and inductive loads

Functional block diagram



Main specifications

Breakdown voltage I/O	minimum	4300	VAC rms					
Air/creepage distances I/O	minimum	8	mm					
Capacitance I/O	typical	3	pF					
Material of the casing	PBT	UL 94V-0						
Colour of the casing		Red						
Weight	typical	40	g					
Temperature range:								
Storage	range	-40+70	∞					
Operation	range	-25+70	∞					

Electrical specifications ($T_A = 25$ °C)

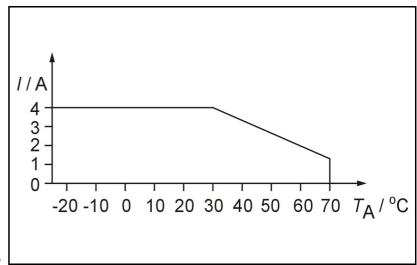
Primary			Secondary				
Input voltage	nominal	12	VDC		minimum	0	VDC
Input current at	typical	9	mA	Load voltage	nominal	250	VDC
nominal voltage	maximum	12	mA		maximum	300	VDC
Input voltage	minimum	9	VDC	Load current	maximum	4	Α
range (abs.)	maximum	18	VDC	Load current	maximum	20	A (10 ms)
Input impedance	typical	1,3	kΩ	Voltage drop	typical	0,6	V (4 A)
Switch-on voltage	typical	8	VDC	Switch-on delay	typical	0,3	ms
	maximum	9	VDC		maximum	0,5	ms
Switch-off voltage	typical	7	VDC	Switch off dolov	typical	0,3	ms
	minimum	6	VDC	Switch-off delay	maximum	0,5	ms
				Inductive load, L/R	maximum	5	ms (250 V, 4 A)
·					maximum	50	ms (24 V, 4 A)
				Leakage current (off-state)	maximum	1	mA

Ambient temperature (T_A) means the temperature immediate in vicinity of relays, where the air flow meets the relays.



Temperature derating

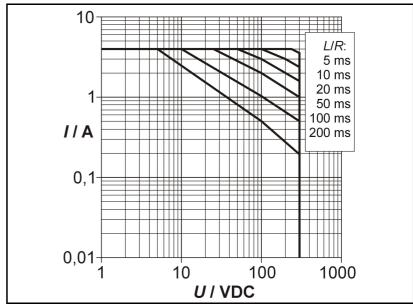
Allowed load is derated to 1/3 linearly from +30 °C to +70 °C ambient temperature. When relays are mounted together as a bank the maximum load current for long period of time should be restricted in total to 50 % of the current from the curve. I.e. all relays at 50 % load continuously or 50 % of the relays at 100 % load continuously or all relays at 100 % load 50 % of the time. This restriction does not apply if there is at least 12,5 mm gap between relays.



Derating curve for SLO 12CRA4.

Derating when switching inductive loads

This relay is meant for resistive and inductive loads. The surge current is not allowed to exceed the specification. For reasons of heat dissipation, when the load will be switched frequently, the average current over a reasonable time should not exceed the specification for continuous operation.



Derating curve for inductive loads.

Fusing

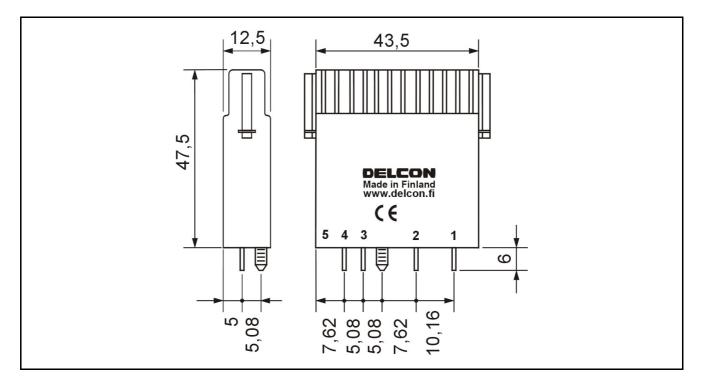
To protect relay against short circuit and overload a fast fuse with the correct rating for the load and the capacity of the relay should be chosen. Note that when overload current is not large it is possible that the fuse will not protect the relay because of the tolerance on the fuse rating.

Assembling

All MOS 1... -mounting sockets, all MB/MBS 8/16... -mounting bases.

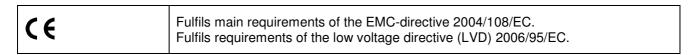


Mechanical dimensions



SLO-relay (plug-in), dimensions in mm.

Approvals



Guarantee

This solid state I/O relay type made by Delcon Oy is guaranteed free from design and manufacturing defects for a period of 10 years from the manufacturing date. The guarantee liability is limited to replacement of defective material and related shipping charges. Defective products must be returned to the manufacturer for evaluation. This guarantee does not cover damage due to incorrect use or electrical overload.