

Technical data sheet

Interface Technology · LCIS Solid State Relay

Solid state relay, 2-conductor technology

Switching element DC 24 V / DC 10 A

Screw terminal / Push-In



Identification

Type	LCIS-SR-DC-2L-500140-PI
Part No.	764050.0140

Product version

Hardware revision	1.0
Datasheet version	04

Input

Rated voltage U_N	DC 24 V
Input voltage range	DC 19.2 V – 30 V
Rated current I_N	DC 10 mA
Protection device Input	Varistor Reverse diode
Status display input	LED green
Activation voltage	>16.8 V
Interrupting voltage	<14 V

Output

Switching element	MOSFET N/O contact
Min. switching voltage	DC 10 V
Max. switching voltage	DC 30 V
Min. switching current	DC 1 mA
Max. switching current	DC 10 A @ 100 % ED

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Derating	dependence of assembly installed with ≥ 20 mm: no derating installed without distance: ≤ 60 °C: max DC 10 A > 60 °C: -50 mA/°C
Inrush current	50 A/20 ms @ 1 Hz
Leak current	< 10 μ A
Switch-on delay	< 250 μ s @ $I_{\max}$
Shutdown delay	< 150 μ s @ $I_{\max}$
Protection device	Varistor
Short circuit	Non short-circuit proof
Switching frequency	1 kHz
Degree of protection	IP20

General

Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	RAL 7012 Basalt grey
Degree of protection	IP20
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	Any
Insulation voltage input / output	4.0 kV _{eff}
Safe isolation	yes
Clearance/creepage dist. (control/ load side)	> 5.5 mm
Connection type	Push-In Single wire 0.25 mm ² – 2.5 mm ² / AWG 24–14 Fine stranded wire with ferrule 0.25 mm ² – 1.5 mm ² / AWG 24–16
Dimensions (w × h × d)	6.2 mm × 93.0 mm × 73.0 mm
Weight/unit	0.03 kg
PU (units)	5

General ambient conditions

Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +80 °C
Over voltage category	III
Relative air humidity	20 – 90 % RH, not condensing
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

Certifications/Standards

Conformity	CE UKCA
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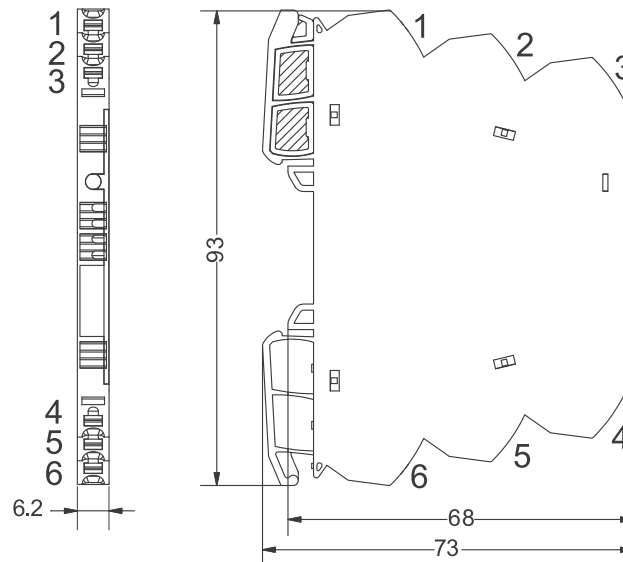
Certifications

cULus (E135145)
DNV (TAA000024Y)

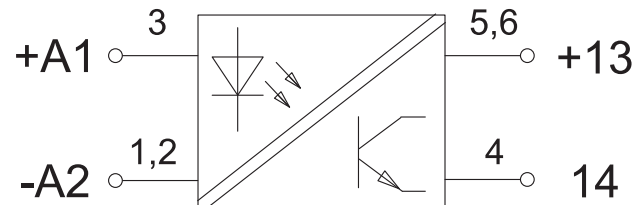
Standards

EN 60947-1
EN 60947-5-1
EN 61000-6-2
EN 61000-6-4
UL 508
DNV-CG-0339

Dimensions



PIN assignment



Use

