

Technical data sheet

Interface Technology · LCIS Solid State Relay

Solid state relay, 2-conductor technology

Switching element DC 24 V / DC 0,5 A / 20 kHz

Screw terminal / Push-In



Identification

Type	LCIS-SR-DC-2L-200091-S
Part No.	763020.0091

Product version

Hardware revision	1.0
Datasheet version	03

Input

Rated voltage U_N	DC 24 V
Input voltage	+A1: 19.2 - 30 V / +A3: 4.2 - 30 V
Rated current I_N	+A1: DC 12 mA / +A3: DC 0.7 mA
Protection device Input	Varistor Reverse diode
Status display input	LED green
Activation voltage	>4.2 V
Interrupting voltage	<2.7 V

Output

Switching element	Transistor N/O contact
Min. switching voltage	DC 5 V
Max. switching voltage	DC 31.2 V
Min. switching current	DC 10 mA
Max. switching current	DC 0.5 A @ 100 % ED

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Part No. [763020.0091](#) • Datasheet version: 03

page 1 of 3

Technical data sheet

Interface Technology · LCIS Solid State Relay

Derating	DC - Operation: no Derating DC 0.5 A @ $\leq$ DC 24 V $\leq$ 10 kHz DC 0.2 A @ $\leq$ DC 24 V $\leq$ 20 kHz
Inrush current	2.5 A/20 ms @ 1 Hz
Leak current	<10 μ A
Switch-on delay	<15 μ s @ I_{max} , U_N
Shutdown delay	<20 μ s @ I_{max} , U_N
Protection device	Suppressor diode
Short circuit	Non short-circuit proof
Switching frequency	Approx. 20 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	3.75 kV _{eff}
Safe isolation	yes
Clearance/creepage dist. (control/ load side)	>5.5 mm
Connection type	Screw terminal 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

Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E135145) DNV (TAA000024Y)

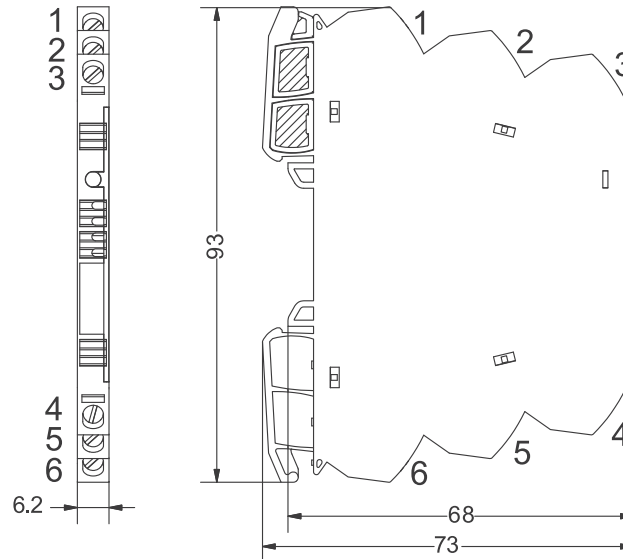
Technical data sheet

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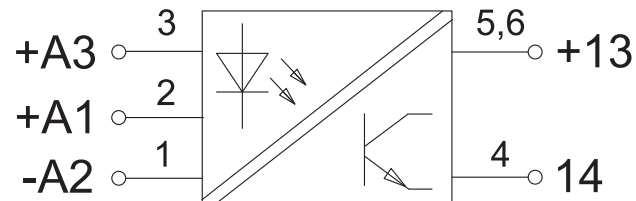
Standards

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

Dimensions



PIN assignment



Use

