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Data sheet 3RK1901-1DE12-1AA0



AS-i data decoupler 1 x 4 A Screw terminals, AS-i single Data decoupling module IP20, SlimLine S22.5 Screw terminals Overall width module 22.5 mm IN: 24 V / 30 V DC OUT: 1 x AS-i, 4 A Integrated overload protection Integrated ground fault detection Signaling contact Remote reset

General technical data		
product designation		Single data decoupling module
design of the product		SlimLine S22.5 - Module to beused in the IP20 control cabinet
protection class IP		IP20
installation altitude at height above sea level maximum	m	2 000
ambient temperature		
● during operation	°C	-25 ... +70
● during storage	°C	-40 ... +85
relative humidity at 25 °C during operation maximum	%	70
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		A
reference code according to EN 61346-2		A
supplied active power	W	120
mechanical service life (operating cycles) of the signaling contacts typical		1 000 000
product function		
● auto-RESET		No
● external reset		Yes
● manual RESET		Yes
● ground fault detection		Yes
● test function of signaling contacts		Yes
● suitable for grounded AS-i networks		Yes
● adapted for non-grounded AS-i networks		Yes
● suitable for AS-i Power24V		Yes
● sequential connected time-delay		No
● AS-Interface data decoupling		Yes
reset function		yes
adjustable current response value current of the current-dependent overload release	A	2.5 ... 4
number of electrical connections for signaling contact		2
number of outputs for AS-Interface maximum		1
display version as status display by LED		yes
number of switching contacts as NO contact for signaling function		1
design of the switching contact as NO contact for signaling function		yes
Communication/ Protocol		
protocol is supported AS-Interface protocol		Yes
Auxiliary circuit		
operational current of auxiliary contacts		

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● at AC-15 at 24 V	A	3
● at DC-13 at 24 V	A	1
Inputs/ Outputs		
type of voltage		
● of the input voltages		DC
● of the input voltage		DC
property of the output short-circuit proof		Yes
output voltage		
● 1 at DC rated value		
—	V	30
—	V	20.5 ... 31.6
● 2 at DC rated value	V	24
output current at DC maximum	A	4
input voltage		
● 1 at DC rated value		
—	V	30
—	V	21 ... 32
● 2 at DC rated value	V	24
input current at DC maximum	A	4.1
Short-circuit protection		
design of short-circuit protection		electronic
Installation/ mounting/ dimensions		
mounting position		vertical
fastening method		35-mm DIN rail mounting or wall mounting with plug-in flaps
width	mm	22.5
height	mm	101.3
depth	mm	121.2
type of electrical connection for auxiliary and control circuit		screw-type terminals
product component removable terminal for auxiliary and control circuit		Yes
type of connectable conductor cross-sections		
● for auxiliary contacts		
— solid		1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
— finely stranded		
— with core end processing		1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
● for AWG cables for auxiliary contacts		2x (20 ... 14)
certificate of suitability		CE / UL / CSA
suitability for use safety-related circuits		Yes

Certificates/ approvals

General Product Approval	EMV	other
		Confirmation

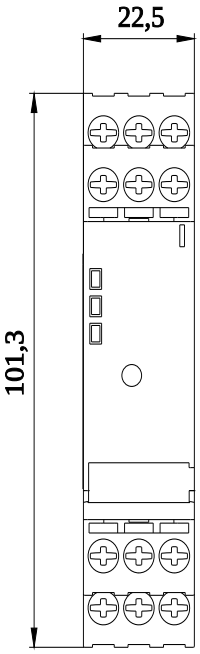
other	Environment
	Environmental Confirmations

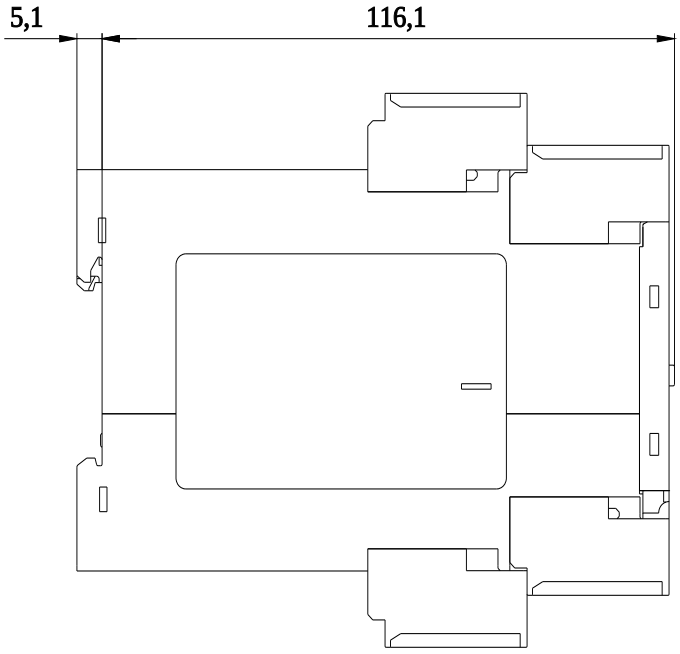
Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
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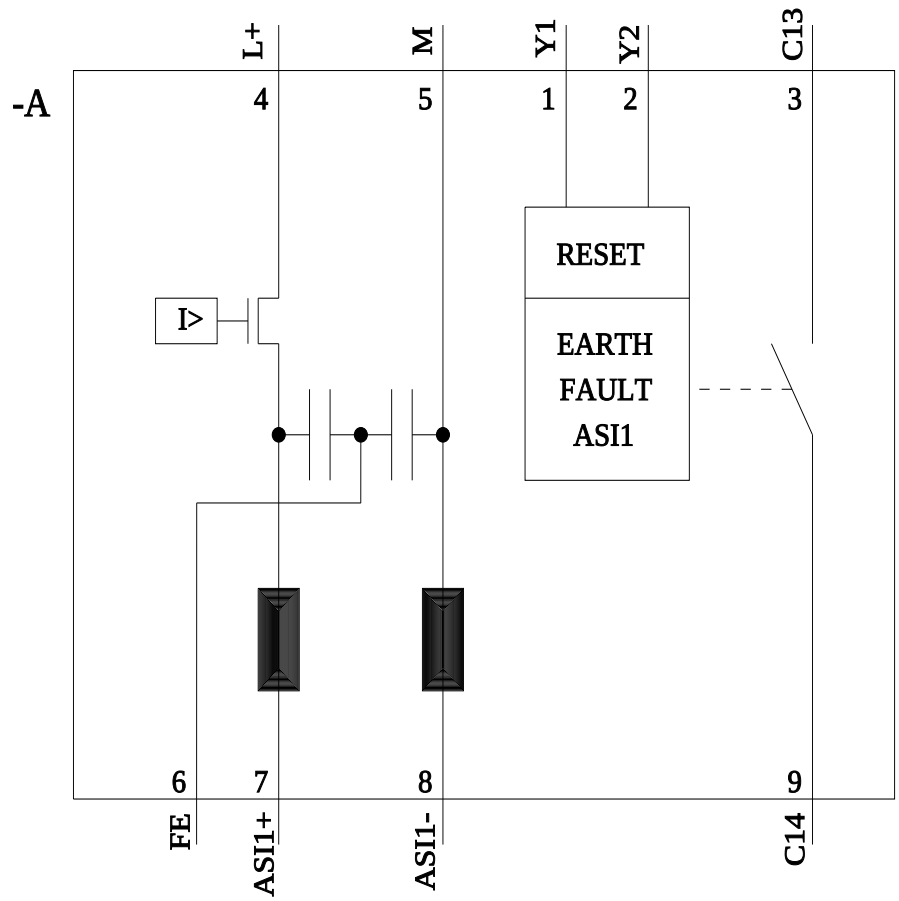
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1901-1DE12-1AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1901-1DE12-1AA0&lang=en





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