SIEMENS

Data sheet   **3RK1901-1DG22-1AA0**

AS-i data decoupler 2 x 4 A Spring-type terminals, AS-i dual Data decoupling module IP20, SlimLine S22.5 spring-type terminals Overall width module 22.5 mm IN: 24 V / 30 V DC OUT: 2 x AS-i, 4 A Integrated overload protection Integrated ground fault detection Signaling contact Remote reset

General technical data		
product designation		Twin 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
relative humidity at 25 °C during operation maximum	%	70
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		A
reference code acc. to DIN EN 61346-2		A
supplied active power	W	240
mechanical service life (switching 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		Yes
● 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		3
number of outputs for AS-Interface maximum		2
display version as status display by LED		yes
number of switching contacts as NO contact for signaling function		2
design of the switching contact as NO contact for signaling function		yes
response delay of the sequential connection delay	ms	200
Communication/ Protocol		
protocol is supported AS-Interface protocol		Yes

Auxiliary circuit		
operational current of auxiliary contacts		
● 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
— rated value	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
— rated value	V	21 ... 32
● 2 at DC rated value	V	24
input current at DC maximum	A	8.2
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	104.9
depth	mm	121.2
type of electrical connection for auxiliary and control circuit		spring-loaded terminals
product function removable terminal for auxiliary and control circuit		Yes
type of connectable conductor cross-sections		
● for auxiliary contacts		
— solid		2x (0.25 ... 1.5 mm²)
— finely stranded		
— with core end processing		2x (0.25 ... 1.5 mm²)
— without core end processing		2x (0.25 ... 1.5 mm²)
● at AWG cables for auxiliary contacts		2x (24 ... 16)
certificate of suitability		CE / UL / CSA
suitability for use safety-related circuits		Yes
Certificates/ approvals		

General Product Approval	EMC	Declaration of Conformity

[Miscellaneous](#)

Shipping Approval	other

[Confirmation](#)

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1901-1DG22-1AA0
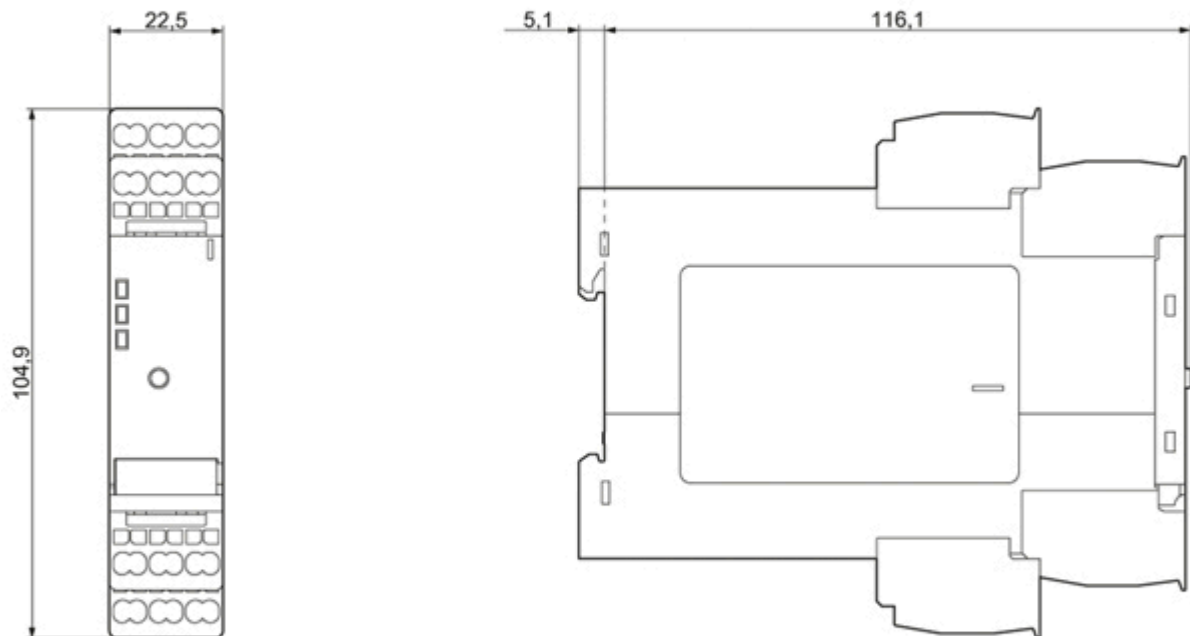
Cax online generator
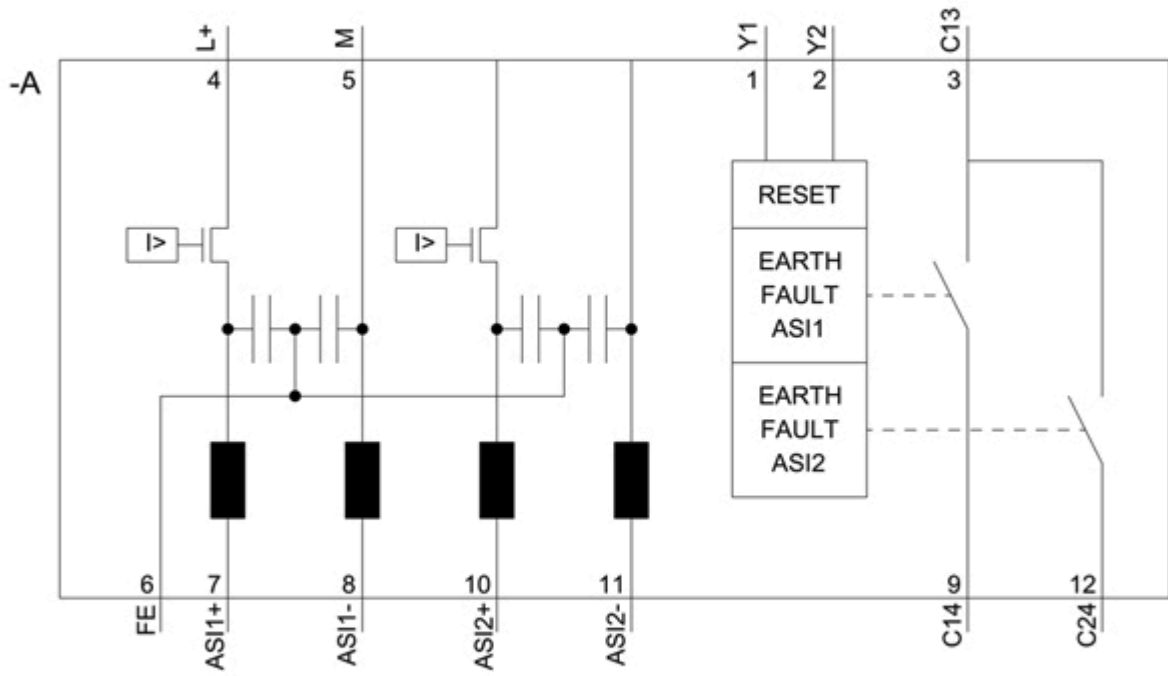http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1901-1DG22-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1901-1DG22-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1901-1DG22-1AA0&lang=en

-A

| L+ 4 | M 5 | | Y1 1 | Y2 2 | C13 3 |

I>   I>

RESET

EARTH
FAULT
ASI1

EARTH
FAULT
ASI2

| 6 FE | 7 ASI1+ | 8 ASI1- | 10 ASI2+ | 11 ASI2- | 9 C14 | 12 C24 |

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