SIEMENS

Data sheet 3RQ1000-1EB00



Positively driven coupling relay in industrial enclosure 1 NO contact / 1 NC contact 24 V DC SIL 2 / PL c screw terminal

product type designation product type designation general teachical data product feature protective coating on printed-circuit board consumed active power 0.6 W Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 according to IEC 60068-2-27 11g / 15 ms vibration resistance • according to IEC 60068-2-27 11g / 15 ms vibration resistance • according to IEC 60068-2-26 0perating frequency maximum 360 1/h switching behavior mechanical service life (operating cycles) typical 10 000 000 1hernal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) SYHC substance name Lead 7-433-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead monoxide (lea	product brand name	SIRIUS
product type designation General tochnical data product feature protective coating on printed-circuit board Consumd active protective coating on printed-circuit board Consumd active power 0.6 W Insulation voltage for overvoltage category III according to IEC 00664 with degree of pollution 3 aread value degree of pollution 3 aread value 4 kV shock resistance • according to IEC 60068-2-27 11g / 15 ms vibration resistance • according to IEC 60068-2-26 10 55 Hz: 0.35 mm operating frequency maximum 360 1/h switching behavior monostable mechanical service IIfe (operating cycles) typical 10 000 000 thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoside (lead oxide) - 317-38.8 Le	·	
Product Feature protective coating on printed-circuit board consumed active power 0.8 W insulation voltage for overvoltage category III according to IEC 60064 with degree of pollution 3 rated value degree of pollution 3 rated value 4 kV shock resistance rated value 4 kV shock resistance - a cacording to IEC 60068-2-7 11g / 15 ms vibration resistance - a according to IEC 60068-2-8 10 55 Hz: 0.35 mm operating frequency maximum 360 f/h switching behavior monostable monostable mental current of the switching element with contacts maximum 56 A substance Prohibitance (Date) 05/31/2018 SVHC substance name Lead 7-439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2.2 (6.6 Hestbaromo-4.4 Hespropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 (Control circuit/ Control supply voltage 1 at DC 2 4 24 V operating range factor control supply voltage 1 at DC 0.8 (filled by the control supply voltage 1 at DC 1 24 24 V operating range factor control supply voltage rated value at DC 1 at AC maximum 15 ms 10 m		
product feature protective coating on printed-circuit board consumed active power of Misulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value degree of pollution 3 surge voltage resistance according to IEC 60068-2-27 11g / 15 ms vibration resistance • according to IEC 60068-2-6 operating frequency maximum 360 1/h switching behavior mechanical service life (operating cycles) typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 SUHS SUHS substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 L2-2,6.6.f-tetabromo-4,4-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight Product Function suitability for operation device connector 3ZY12 Control circuit/ Control control supply voltage 1 at DC rated value at CC initial value • at AC maximum • at AC maximum 15 ms of Fe-delay time maximum OFF-delay time maximum of Missing Function switching Function switching Function switching Function switching Function switching Function switching Function		UNXI
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insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value degree of pollution surge voltage resistance rated value 4 kV shock resistance • according to IEC 60068-2-27 11g / 15 ms vibration resistance • according to IEC 60068-2-26 11g / 15 ms vibration resistance • according to IEC 60068-2-6 10 55 Hz: 0.35 mm operating frequency maximum 360 1/h switching behavior monostable mechanical service life (operating cycles) typical 10 000 000 thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 5VHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead monoxide (lead oxide) - 24-14-4-14-methythiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight 0.164 kg Product Function suitability for operation device connector 32Y12 Yes Control circuit/ Control control supply voltage 1 at DC rated value 24 V Control supply voltage 1 at DC rated value at DC initial value oinitial value oin the Cmaximum 15 ms OFF-delay time maximum 40 ms Switching Function		
degree of poliution 3	insulation voltage for overvoltage category III according to IEC	
surge voltage resistance rated value shock resistance		2
shock resistance a according to IEC 60068-2-27 vibration resistance a according to IEC 60068-2-6 operating frequency maximum 360 1/h switching behavior mechanical service life (operating cycles) typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2.2/6,6'-tertabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight Product Function suitability for operation device connector 3ZY12 Yes Control supply voltage 1 at DC rated value control supply voltage 1 at DC rated value at DC initial value full-scale value 0.8 full-scale value 0.8 of till-scale value 15 ms at DC maximum 15 ms at DC maximum at D		
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switching behavior monostable mechanical service life (operating cycles) typical 10 000 000 thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/31/2018 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight 0,164 kg Product Function suitability for operation device connector 3ZY12 Yes Control circuit/ Control control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC at		
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Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight Product Function suitability for operation device connector 3ZY12 Yes Control circuit/ Control control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC operating range factor control supply voltage rated value at DC oinitial value of full-scale value 1.2 ON-delay time of at AC maximum of at DC maximum 15 ms OFF-delay time maximum OFF-delay time maximum Value OM ms Switching Function	thermal current of the switching element with contacts	
SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight Product Function suitability for operation device connector 3ZY12 Yes Control circuit/ Control control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC operating range factor control supply voltage rated value at DC initial value ols full-scale value 0.8 full-scale value 0.7 ON-delay time at AC maximum 15 ms at DC maximum 40 ms Switching Function	reference code according to IEC 81346-2	К
Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight 0.164 kg Product Function suitability for operation device connector 3ZY12 Yes Control circuit/ Control control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC initial value 0.8 full-scale value 1.2 ON-delay time at AC maximum 15 ms at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function		05/31/2018
suitability for operation device connector 3ZY12 Yes Control circuit/ Control control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC • initial value 0.8 • full-scale value 1.2 ON-delay time • at AC maximum 15 ms • at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
suitability for operation device connector 3ZY12 Control circuit/ Control control supply voltage 1 at DC rated value control supply voltage 1 at DC operating range factor control supply voltage rated value at DC oinitial value oinitial value ofull-scale value ON-delay time oat AC maximum oat DC maximum oat DC maximum off-delay time maximum OFF-delay time maximum 40 ms Switching Function	Weight	0.164 kg
Control circuit/ Control control supply voltage 1 at DC rated value control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC initial value initial value of ull-scale value 0.8 of ull-scale value 1.2 ON-delay time of at AC maximum of at DC maximum of at DC maximum 15 ms of DF-delay time maximum 40 ms Switching Function	Product Function	
control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC • initial value 0.8 • full-scale value 1.2 ON-delay time • at AC maximum 15 ms • at DC maximum 15 ms • at DC maximum 40 ms Switching Function	suitability for operation device connector 3ZY12	Yes
control supply voltage 1 at DC operating range factor control supply voltage rated value at DC o initial value of ull-scale value ON-delay time o at AC maximum o at DC maximum of the DC maximum 40 ms Switching Function	Control circuit/ Control	
operating range factor control supply voltage rated value at DC initial value i	control supply voltage 1 at DC rated value	24 V
initial value initial	control supply voltage 1 at DC	24 24 V
full-scale value ON-delay time at AC maximum at DC maximum 15 ms at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function		
ON-delay time • at AC maximum • at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function	• initial value	0.8
at AC maximum at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function	• full-scale value	1.2
• at DC maximum OFF-delay time maximum 40 ms Switching Function	ON-delay time	
OFF-delay time maximum 40 ms Switching Function	at AC maximum	15 ms
Switching Function	at DC maximum	15 ms
	OFF-delay time maximum	40 ms
design of the switching function NC contact and NO contact	Switching Function	
	design of the switching function	NC contact and NO contact
Mechanical data	Mechanical data	

product component plus in cooket	No
product component plug-in socket	No noted
design of the relay operating mechanism Short-circuit protection	poled
design of the fuse link for short-circuit protection of the auxiliary switch required	NO: fuse gL/gG: 6 A; NC: fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgNi + Au flash
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
type of voltage	DC
Inputs/ Outputs	
output current minimum	1 mA
ampacity of the output relay at AC-15	
● at 250 V at 50/60 Hz	2 A
ampacity of the output relay at DC-13	
• at 24 V	2 A
• at 125 V	0.2 A
• at 250 V	0.1 A
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to ground)
due to conductor-conductor surge according to IEC 61000-4-5	1 kV (line to line)
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging, 8 kV air discharging
Display	
product component LED	Yes
Safety related data	
product function	
•	Voo
positively driven operation according to IEC 60947-5-1	Yes
positively driven operation according to IEC 60947-5-1 suitability for use	
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on	No
 positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF 	No Yes
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state	No Yes safe shutdown
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary	No Yes safe shutdown Yes
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1	No Yes safe shutdown Yes
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1 MTTFd	No Yes safe shutdown Yes
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1 MTTFd IEC 62061	No Yes safe shutdown Yes
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1 MTTFd IEC 62061 Safety Integrity Level (SIL)	No Yes safe shutdown Yes
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1 MTTFd IEC 62061	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1 MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use safety-related switching on safety-related switching OFF safe state test wear-related service life necessary stop category according to IEC 60204-1 MTTFd IEC 62061 Safety Integrity Level (SIL) according to IEC 62061 ISO 13849	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a 2 C 1 1 No
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a 2 C 1 1 No 2 Type A 4E-7 1/h
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a 2 C 1 1 No 2 Type A 4E-7 1/h 0.002
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a 2 C 1 1 No 2 Type A 4E-7 1/h 0.002 85 %
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a 2 C 1 1 No 2 Type A 4E-7 1/h 0.002 85 % 0
positively driven operation according to IEC 60947-5-1 suitability for use	No Yes safe shutdown Yes 0 470 a 2 C 1 1 No 2 Type A 4E-7 1/h 0.002 85 % 0

wire length at DC maximum	2 000 m
type of connectable conductor cross-sections	
• solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
• for AWG cables solid	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing maximum 	4 mm²
 finely stranded without core end processing minimum 	0.5 mm²
AWG number as coded connectable conductor cross section	
• solid	12 20
• stranded	12 20
tightening torque with screw-type terminals	0.6 0.8 N·m
stripped length of the cable for auxiliary and control contacts	10 mm
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	100 mm
width	17.5 mm
depth	120 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
relative humidity during operation	10 95 %
Approvals Certificates	
General Product Approval	













EMV

Marine / Shipping

other

Environment





Confirmation

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RQ1000-1EB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ1000-1EB00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

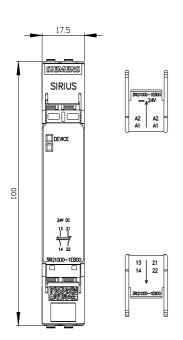
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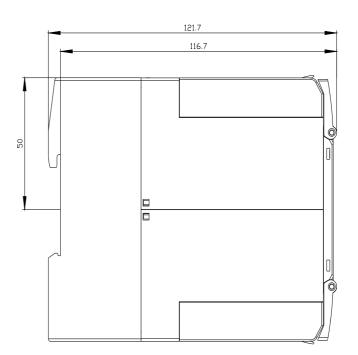
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

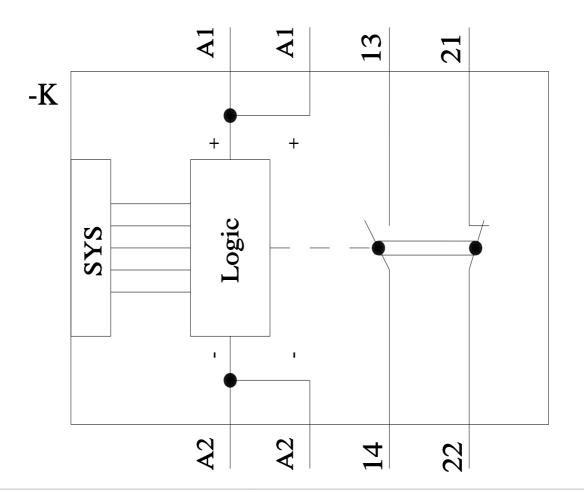
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Characteristic: Derating

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