SIEMENS

Data sheet

3RQ1000-2EB00



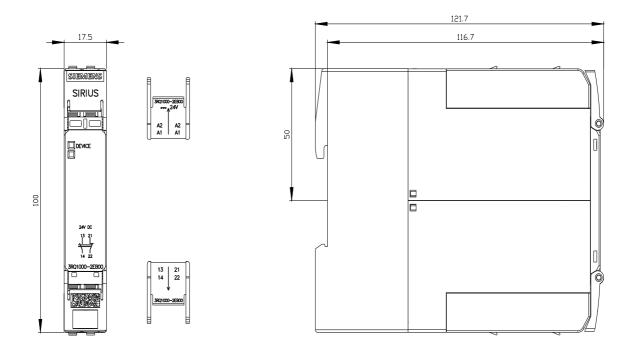
Positively driven coupling relay in industrial enclosure 1 NO contact / 1 NC contact 24 V DC SIL 2 / PL c spring-type terminal (push-in)

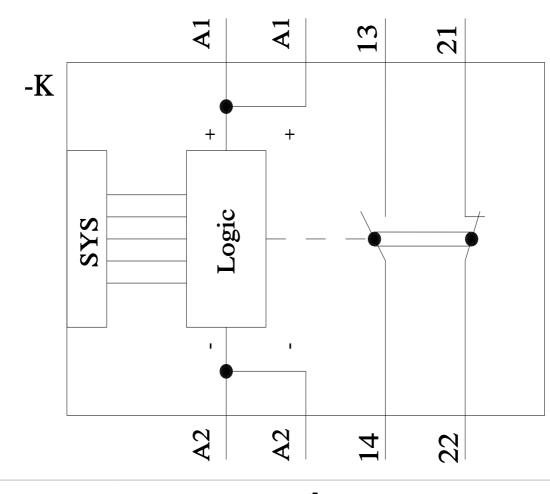
product brand name SIRUS product designation force-guided coupling relay product type designation 3RQ1 consumed active power 0.6 W insulation voltage for overvoltage category III according to IEC 300 V 00664 with degree of pollution 3 degree of pollution 3 sucre voltage for overvoltage category III according to IEC 300 V solfset with degree of pollution 3 sucre voltage resistance rated value 4 kV shock resistance 11g / 15 ms vibration resistance according to IEC 60068-2.6 according to IEC 60068-2.6 10 55 Hz: 0.35 mm operating frequency maximum 360 fn mechanical service IIfe (operating cycles) typical 10 000 000 thermal current of the switching element with contacts 5.A maximum 563 / 17018 Substance Prohibitance (Date) 0631/2018 Least / 7439.492.1 Least / 7439.492.1 suitability for operation device connector 32Y12 Yes Control circuit/ Control 2.2.6.7.4.4.sepropylideneciphenol - 79.49.7 2.2.8.6.					
product type designation 3RQ1 Ceneral technical data Image: Consumed active protect feature protect prote	product brand name	SIRIUS			
Conserval technical data No consumed active power 0.6 W Insulation voltage for overvoltage category III according to IEC 300 V Oddedwith degree of pollution 3 surge voltage resistance rated value 4 kV shock resistance 4 kV shock resistance	product designation	force-guided coupling relay			
product feature protective coating on printed-circuit board No consumed active power 0.6 kW isulation voltage for overonlage category III according to IEC 300 V 300 V 300 V surge voltage resistance rated value 4 kV shock resistance 4 kV • according to IEC 6008-2-27 11g / 15 ms vibration resistance 10 55 Hz: 0.35 mm • according to IEC 6008-2-6 10 55 Hz: 0.35 mm operating frequency maximum 360 1h switching behavior monostable mechanical service life (operating cycles) typical 10 000 000 thermal current of the switching element with contacts 5 A Substance Prohibitance (Date) 05/31/2018 SVHC substance name Lead -7439-92.1 Lead -7439-92.1 Lead -7439-92.1 <td< th=""><th>product type designation</th><th colspan="4">3RQ1</th></td<>	product type designation	3RQ1			
consumed active power 0.6 W insulation voltage for overvoltage category III according to IEC 300 V degree of pollution 3 surge voltage resistance rated value 4 kV shock resistance 4 kV • according to IEC 60068-2.6 10 55 Hz: 0.35 nm operating frequency maximum 360 1/h switching behavior monostable mechanical service life (operating cycles) typical 10 00 00 thermal current of the switching element with contacts 5 A maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/31/2018 Substance Prohibitance (Date) 05/31/2018 Switching there to a conduct of the switching element with contacts 2,2,6,6+tetrabrome-4,4-sepropylicheneol - 79-94-7 2,2,6,5-tetrabrome-4,4-sepropylicheneol-properties 2,2,6,5-tetrabrome-4,4-sepropylicheneol-properties Switching the for operation device connector 32Y12 Yes 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 24 24 V oporating range factor control supply voltage rated value at DC 24 24 V oporating range factor control supply voltage rated value at DC 24 24 V oporatin	General technical data				
Insulation voltage for overvoltage category III according to IEC 300 V 60664 with degree of pollution 3 rated value 4 degree of pollution 3 surge voltage resistance rated value 4 kV shock resistance 11g / 15 ms vibration resistance 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 5 A switching behavior 5 A Subtance Prohibitance (Date) 05/31/2018 SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2.2.6.6 */tertabrom-4.4*-isoptopylidenediphenol - 79-94-7 2-restryl - 1-(4-methylithiophenyl)-2-morpholinopropan-1-one - 71868-10-5 9 Product Function 24 V control supply voltage 1 at DC 24 V control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC 0.8 • initial value 0.8 • initial value 0.8	product feature protective coating on printed-circuit board	No			
60664 with degree of pollution 3 rated value 3 degree of pollution 3 surge voltage resistance rated value 4 kV shock resistance 1// 15 ms • according to IEC 60068-2-27 1// 19 ms vibration resistance 3 • according to IEC 60068-2-45 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 5.A maximum 5.4 substance Prohibitance (Date) 05/31/2018 Substance Prohibitance (Date) 05/31/2018 Substance name Lead roxide) - 1317-36-8 2.2.7.6.6.4/erbarborno - 4.4/sopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71668-10-5 Weight 0.154 kg Product Function suitability for operation device connector 32Y12 Yes Control supply voltage 1 at DC 24 ··· control supply voltage 1 at DC 24 ··· operating range factor control supply voltage rated value 12 olikilexale value 1.2 olikilexale value 1.2 olikilexale value 1.2 olikilex	consumed active power	0.6 W			
surge voltage resistance rated value 4 kV shock resistance 11g / 15 ms • according to IEC 60068-2-27 11g / 15 ms vibration resistance 10 55 Hz: 0.35 mm • 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 5 A 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-tertabromo-4,4-isopropylidenediphenol - 79-94-7 -2.2.6,6-tertabromo-4,4-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methythiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight 0.154 kg 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 0.8 • intilal value 0.8 • intilal value 0.8 • intilal value 0		300 V			
shock resistance 11g / 15 ms • according to IEC 60068-2-27 11g / 15 ms vibration resistance	degree of pollution	3			
• according to IEC 60068-2-27 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 5 A maximum 5 A reference code according to IEC 81346-2 K Subtance Prohibitance (Date) 05/31/2018 SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 22.6 6-tetrabromo-4.4-isopropylidenediphenol - 79-94-7 2.2.7.6 6-tetrabromo-4.4-isopropylidenediphenol - 79-94-7 22.7.6 6-tetrabromo-4.4-isopropylidenediphenol - 79-94-7 2.2.7.6 6-tetrabromo-4.4-isopropylidenediphenol - 79-94-7 22.7.6 6-tetrabromo-4.4-isopropylidenediphenol - 79-94-7 2.2.7.6 for tetrabromo-4.4-isopropylidenediphenol - 79-94-7 24.0 Control circuit/ Control 24.V control supply voltage 1 at DC 24.0 control supply voltage 1 at DC 24 24.V operating range factor control supply voltage rated value at DC 1.2 ovid-diage time 1.2 ON-delage time </th <th>surge voltage resistance rated value</th> <th>4 kV</th>	surge voltage resistance rated value	4 kV			
vibration resistance i 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 5 A maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/31/2018 SVHC substance name Lead - 7439-92-1 Lead - 7439-92-1 Lead on contide (ead oxide) - 1317-38-8 Substance name Lead - 7439-92-1 Lead on contide (ead oxide) - 1317-38-8 Using the product Function 0.154 kg Product Function suitability for operation device connector 3ZY12 Yes Control supply voitage 1 at DC rated value 24 V control supply voitage 1 at DC 24 24 V operating range factor control supply voitage rated value at DC 0.8 0.11dl-scale value 1.2 0.N-delay time 15 ms 0.R-delay time 15 ms 0FF-delay time maximum 40 ms </th <th>shock resistance</th> <th></th>	shock 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 5 A maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/31/2018 SVHC substance name Lead - 7439-92-1 Lead nonxide (lead oxide) - 1317-36-8 2.2/6, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.7, 6, 5-fettamome-4, 4-isopropylidenediphenol - 79-94-7 26, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.7, 6, 7, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 26, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.2, 6, 5-fettamome-4, 4-isopropylidenediphenol - 79-94-7 26, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.2, 6, 5-fettamome-4, 4-isopropylidenediphenol - 79-94-7 26, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.2, 6, 5-fettamome-4, 4-isopropylidenediphenol - 79-94-7 26, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.2, 6, 5-fettamome-4, 4-isopropylidenediphenol - 79-94-7 26, 6-fettamome-4, 4-isopropylidenediphenol - 79-94-7 2.10 Otrol 24 V control supply voltage 1 at DC 24 V control supply voltage 1 at DC 24 24 V <td< th=""><th>according to IEC 60068-2-27</th><th>11g / 15 ms</th></td<>	according to IEC 60068-2-27	11g / 15 ms			
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 5 A maximum 5 A 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 2,2,6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 9 vertifie 0.154 kg 0.154 kg Product Function suitability for operation device connector 3ZY12 Yes Control supply voltage 1 at DC 24 \v 24 \v control supply voltage 1 at DC 24 \v 24 \v operating range factor control supply voltage rated value at DC 0.8 1.2 ON-delay time 1.2 0.8 1.2	vibration resistance				
switching behavior monostable 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 tertabromo-4,4'-Isopropylidenediphenol - 79-94-7 2,-restryl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Veight 0.154 kg Product Function subly voltage 1 at DC act or 22 V v control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC initial value 0.8 12.2 ON-delay time 12.2 ON-delay time 15 ms	according to IEC 60068-2-6	10 55 Hz: 0.35 mm			
mechanical service life (operating cycles) typical 10 000 000 thermal current of the switching element with contacts 5 A maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/31/2018 SVHC substance name Lead - 7439-92-1 Lead monoxide (ead oxide) - 1317-36-8 2,2',6',6'-terabromo-4,4'-isopropylidenediphenol - 79-94-7 2-r.eftyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight 0.154 kg Product Function suitability for operation device connector 3ZY12 Yes 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 0.8 • initial value 0.8 • initial value 0.8 • at AC maximum 15 ms • at AC maximum 15 ms • at AC maximum 40 ms Switching Function NC contact and NO contact	operating frequency maximum	360 1/h			
thermal current of the switching element with contacts 5 A 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'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 2,2,6,6'-tetratorom-4,4'-isopropylidenediphenol - 79-94-7 suitability for operation device connector 3ZY12 Yes Control circuit/ Control 24 \V control supply voltage 1 at DC 24 \ 24 \V operating range factor control supply voltage rated value at DC 0.8 initial value 0.8 initial value 0.8 i at DC maximum 15 ms i at DC maximum 15 ms oFF-delay time maximum 40 ms Switching Function NC contact and NO contact	switching behavior	monostable			
maximumKreference code according to IEC 81346-2KSubstance Prohibitance (Date)05/31/2018SVHC substance nameLead - 7439-92-1Lead monoxide (lead oxide) - 1317-36-8.2,2',6,6'-tetratormo-4,4'-isopropylidenediphenol - 79-94-7.2,"ethylator.2,'',6,6'-tetratormo-4,4'-isopropylidenediphenol - 79-94-7.2,'',6,6'-tetratormo-4,4'-isopropylidenediphenol - 79-94-7.2,'',6,6'-tetrator.2,'',6,6'-tetrator.2,'',6,6'-tetrator.2,'',6,6'-tetrator.2,'',6,6'-tetrator.2,'',0,6'-tetrator.2,'',0,6'-tetrator.2,'',0,1'' <tr< th=""><th>mechanical service life (operating cycles) typical</th><th>10 000 000</th></tr<>	mechanical service life (operating cycles) typical	10 000 000			
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 0.154 kg Product Function 0.154 kg suitability for operation device connector 3ZY12 Yes Control circuit/ Control 24 V 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 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact		5 A			
SVHC substance name Lead - 7439-92-1 Lead - 7439-92-1 Lead nonxide (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 0.154 kg Product Function suitability for operation device connector 3ZY12 Yes Control circuit/ Control 24 V control supply voltage 1 at DC rated value 24 V control supply voltage 1 at DC 24 V operating range factor control supply voltage rated value at DC 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact	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-wethyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Weight 0.154 kg Product Function suitability for operation device connector 3ZY12 Yes Control circuit/ Control 24 V control supply voltage 1 at DC rated value 24 24 V operating range factor control supply voltage rated value at DC 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact	Substance Prohibitance (Date)	05/31/2018			
Product Function Ves suitability for operation device connector 3ZY12 Yes Control circuit/ Control 24 V 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 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact	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 Yes Control circuit/ Control 24 V 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 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact	Weight	0.154 kg			
Control circuit/ Control 24 V control supply voltage 1 at DC 24 24 V control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact	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 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 40 ms Switching Function NC contact and NO contact	suitability for operation device connector 3ZY12	Yes			
control supply voltage 1 at DC 24 24 V operating range factor control supply voltage rated value at DC 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time	Control circuit/ Control				
operating range factor control supply voltage rated value at DC 0.8 • initial value 0.8 • full-scale value 1.2 ON-delay time	control supply voltage 1 at DC rated value	24 V			
DC 0.8 • full-scale value 1.2 ON-delay time 1.2 • at AC maximum 15 ms • at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function NC contact and NO contact	control supply voltage 1 at DC	24 24 V			
• 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 NC contact and NO contact					
ON-delay time 15 ms • at AC maximum 15 ms • at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function NC contact and NO contact	initial value	0.8			
• at AC maximum 15 ms • at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function NC contact and NO contact	full-scale value	1.2			
• at DC maximum 15 ms OFF-delay time maximum 40 ms Switching Function 40 ms design of the switching function NC contact and NO contact	ON-delay time				
OFF-delay time maximum 40 ms Switching Function 40 ms design of the switching function NC contact and NO contact	• at AC maximum	15 ms			
Switching Function NC contact and NO contact	• at DC maximum	15 ms			
design of the switching function NC contact and NO contact	OFF-delay time maximum	40 ms			
	Switching Function				
Mechanical data	design of the switching function	NC contact and NO contact			
	Mechanical data				

product component plug in cocket	No
product component plug-in socket design of the relay operating mechanism	No
Short-circuit protection	poleu
	NO: fund al /aC: 6 A: NC: fund al /aC: 4 A
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	1 kV (line to line)
61000-4-5	
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	
product function operation according to IEC 60947-5-1	Yes
•	Yes
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 0
• 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 0
• 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
• 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 O 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 O 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 O 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 performance level (PL) according to ISO 13849-1	No Yes safe shutdown Yes O 470 a 2 C
• 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1	No Yes safe shutdown Yes O 470 a 2 2 C 1
• 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-1	No Yes safe shutdown Yes 0 470 a 2 2 C 1 1
• 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	No Yes safe shutdown Yes 0 470 a 2 2 C 1 1
• 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-2 necessary IEC 61508	No Yes safe shutdown Yes 0 470 a 2 c 1 1 1 No
• 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-2 necessary IEC 61508 Safety Integrity Level (SIL) according to IEC 61508	No Yes safe shutdown Yes O 470 a 2 C 1 1 1 No
 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-2 necessary IEC 61508 Safety Integrity Level (SIL) according to IEC 61508 safety level (SIL) according to IEC 61508 	No Yes safe shutdown Yes 0 470 a 2 2 2 2 1 1 1 No 2 2 2
 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 performance level (PL) according to ISO 13849-11 category according to ISO 13849-12 overdimensioning according to ISO 13849-2 necessary IEC 61508 Safety Integrity Level (SIL) according to IEC 61508 safety device type according to IEC 61508	No Yes safe shutdown Yes 0 470 a 2 2 c 1 1 1 No 2 2 7ype A 4E-7 1/h
 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 Safety Integrity Level (SIL) according to IEC 61508 safety device type according to IEC 61508 	No Yes safe shutdown Yes 0 470 a 2 c 1 1 No 2 1 No 2 1 No 2 1 0 2 1 0.002
 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	No Yes safe shutdown Yes 0 470 a 2 c 1 1 No 2 7 1 No 2 4E-7 1/h 0.002 85 %
 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-2 necessary IEC 61508 Safety Integrity Level (SIL) according to IEC 61508 safety level (SIL) according to IEC 61508 Safety Integrity Level (SIL) according to ISO 13849-2 necessary 	No Yes safe shutdown Yes 0 470 a 2 c 1 1 No 2 1 No 2 4E-7 1/h 0.002 85 % 0
 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 performance level (PL) according to ISO 13849-1 category according to ISO 13849-1 device type according to ISO 13849-2 necessary IEC 61508 Safety Integrity Level (SIL) according to IEC 61508 safety device type according to IEC 61508-2 PFHD with high demand rate according to IEC 61508 Safe failure fraction (SFF) hardware fault tolerance according to IEC 61508 T1 value of service life according to IEC 61508 	No Yes safe shutdown Yes 0 470 a 2 c 1 1 No 2 1 No 2 4E-7 1/h 0.002 85 % 0

wire length at DC ma	ximum		2 000 m			
type of connectable	conductor cross-section	s				
 solid 			0.5 4 mm²			
 finely stranded with core end processing 		0.5 2.5 mm²				
• for AWG cables solid		20 12				
connectable condu	ctor cross-section					
 solid 			0.5 4 mm²			
 finely stranded 	with core end processing r	naximum	2.5 mm ²			
 finely stranded 	without core end processir	ig minimum	0.5 mm²			
AWG number as co section	ded connectable conduct	or cross				
 solid 			12 20			
 stranded 			12 20			
stripped length of the	cable for auxiliary and cont	rol contacts	10 mm			
Installation/ mounting	/ dimensions					
mounting position			any			
fastening method		screw and snap-on r	mounting onto	o 35 mm DIN rail		
height			100 mm			
width			17.5 mm			
depth		120 mm				
Ambient conditions						
installation altitude at	height above sea level max	kimum	2 000 m			
ambient temperatur	e					
 during operation 	n		-25 +60 °C			
 during storage 			-40 +80 °C			
 during transpo 	rt		-40 +80 °C			
relative humidity during operation		10 95 %				
Approvals Certificate	s					
General Product Ap	proval					
-	1.112		-			_
(m)	ŬK	CE	(Ui		COC	
		EG-Konf.	<u> </u>		ENL	
CCC		EG-Kont.	UL			TUV
EMV	Marine / Shipping	other	Environmen	nt		

Information on th	e packaging
https://support.ind	stry.siemens.com/cs/ww/en/view/109813875
Information- and	Downloadcenter (Catalogs, Brochures,)
https://www.sieme	is.com/ic10
	ine ordering system)
https://mall.industr	.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ1000-2EB00
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	nation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ1000-2EB00
	(Manuals, Certificates, Characteristics, FAQs,)
	stry.siemens.com/cs/ww/en/ps/3RQ1000-2EB00
	product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) ion.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ1000-2EB00⟨=en
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