# SIEMENS

#### Data sheet

### 3RQ1000-2EB00



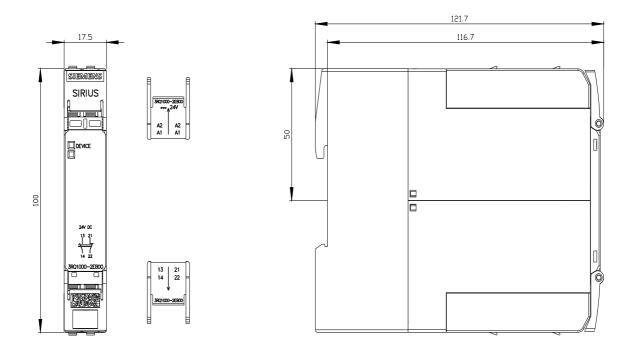
Positively driven coupling relay in industrial enclosure 1 NO contact / 1 NC contact 24 V DC SIL 2 / PL c spring-type terminal (push-in)

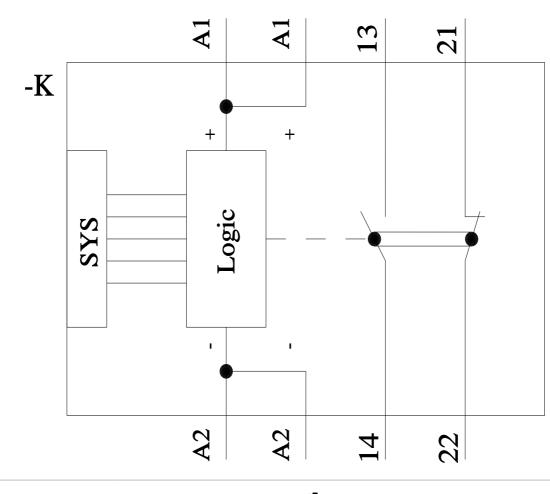
product brand name         SIRUS           product designation         force-guided coupling relay           product type designation         3RQ1           consumed active power         0.6 W           insulation voltage for overvoltage category III according to IEC         300 V           00664 with 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	,
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	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
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitability for use         <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> </li> <li>safe state         <ul> <li>test wear-related service life necessary</li> <li>stop category according to IEC 60204-1</li> <li>MTTFd</li> </ul> </li> <li>IEC 62061</li> <li>Safety Integrity Level (SIL)         <ul> <li>according to IEC 62061</li> <li>ISO 13849</li> <li>performance level (PL) according to ISO 13849-1</li> <li>category according to ISO 13849-1</li> <li>device type according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>safety level (SIL) according to IEC 61508</li> </ul> </li> </ul>	No Yes safe shutdown Yes 0 470 a 2 2 2 2 1 1 1 No 2 2 2
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitability for use         <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> </li> <li>safe state         <ul> <li>test wear-related service life necessary</li> <li>stop category according to IEC 60204-1</li> </ul> </li> <li>MTTFd         <ul> <li>IEC 62061</li> <li>Safety Integrity Level (SIL)             <ul> <li>according to IEC 62061</li> <li>ISO 13849</li> <li>performance level (PL) according to ISO 13849-11</li> <li>category according to ISO 13849-12</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>safety device type according to IEC 61508</li></ul></li></ul></li></ul>	No Yes safe shutdown Yes 0 470 a 2 2 c 1 1 1 No 2 2 7ype A 4E-7 1/h
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitability for use         <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> </li> <li>safe state         <ul> <li>test wear-related service life necessary</li> <li>stop category according to IEC 60204-1</li> <li>MTTFd</li> </ul> </li> <li>IEC 62061</li> <li>Safety Integrity Level (SIL)         <ul> <li>according to IEC 62061</li> <li>ISO 13849</li> <li>performance level (PL) according to ISO 13849-1</li> <li>category according to ISO 13849-1</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>safety device type according to IEC 61508</li> </ul> </li> </ul>	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
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitability for use         <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> </li> <li>safe state         <ul> <li>test wear-related service life necessary</li> <li>stop category according to IEC 60204-1</li> <li>MTTFd</li> <li>IEC 62061</li> <li>Safety Integrity Level (SIL)                 <ul> <li>according to IEC 62061</li> <li>ISO 13849</li> <li>performance level (PL) according to ISO 13849-1</li> <li>category according to ISO 13849-1</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li></ul></li></ul></li></ul>	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 %
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitability for use         <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> </li> <li>safe state         <ul> <li>test wear-related service life necessary</li> <li>stop category according to IEC 60204-1</li> <li>MTTFd</li> </ul> </li> <li>IEC 62061</li> <li>Safety Integrity Level (SIL)         <ul> <li>according to IEC 62061</li> <li>ISO 13849</li> <li>performance level (PL) according to ISO 13849-1</li> <li>category according to ISO 13849-1</li> <li>device type according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>safety level (SIL) according to IEC 61508</li> <li>Safety Integrity Level (SIL) according to ISO 13849-2 necessary</li> </ul> </li> </ul>	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
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> </li> <li>safe state <ul> <li>test wear-related service life necessary</li> <li>stop category according to IEC 60204-1</li> </ul> </li> <li>MTTFd <ul> <li>IEC 62061</li> <li>Safety Integrity Level (SIL) <ul> <li>according to IEC 62061</li> </ul> </li> <li>ISO 13849</li> <li>performance level (PL) according to ISO 13849-1</li> <li>category according to ISO 13849-1</li> <li>device type according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>PFHD with high demand rate according to IEC 61508</li> <li>Safe failure fraction (SFF)</li> <li>hardware fault tolerance according to IEC 61508</li> <li>T1 value of service life according to IEC 61508</li> </ul> </li> </ul>	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				
<ul> <li>solid</li> </ul>			0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>		0.5 2.5 mm²				
• for AWG cables solid		20 12				
connectable condu	ctor cross-section					
<ul> <li>solid</li> </ul>			0.5 4 mm²			
<ul> <li>finely stranded</li> </ul>	with core end processing r	naximum	2.5 mm <sup>2</sup>			
<ul> <li>finely stranded</li> </ul>	without core end processir	ig minimum	0.5 mm²			
AWG number as co section	ded connectable conduct	or cross				
<ul> <li>solid</li> </ul>			12 20			
<ul> <li>stranded</li> </ul>			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					
<ul> <li>during operation</li> </ul>	n		-25 +60 °C			
<ul> <li>during storage</li> </ul>			-40 +80 °C			
<ul> <li>during transpo</li> </ul>	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
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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
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	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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