SIEMENS

Data sheet

3RQ2000-1BW00



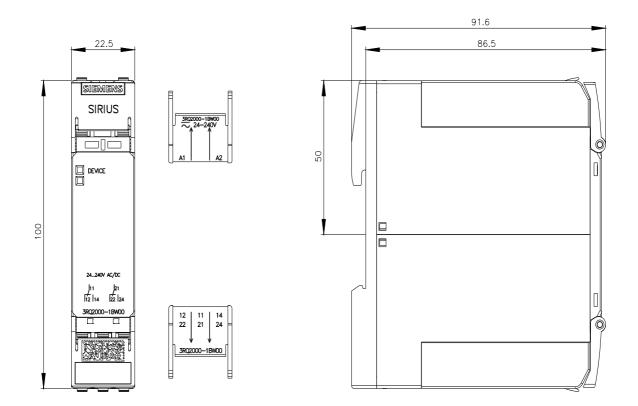
Coupling relay in industrial enclosure 2 changeover contacts Wide voltage range 24 V to 240 V AC/DC Screw terminals

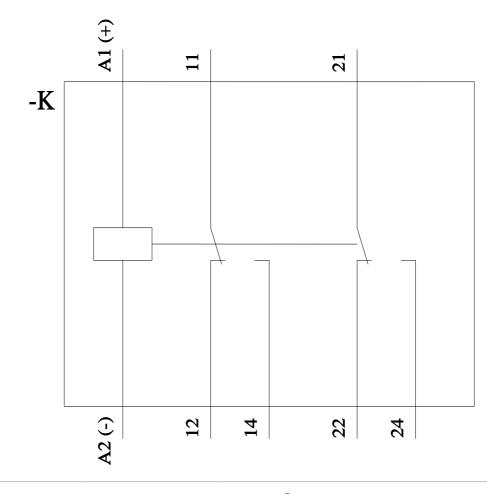
product brand name	SIRIUS
product designation	Coupling relay in industrial enclosure
product type designation	3RQ2
General technical data	
product feature protective coating on printed-circuit board	No
consumed active power	4.5 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 kV
maximum permissible voltage for protective separation	
 between auxiliary and auxiliary circuit 	300 V
 between control and auxiliary circuit according to IEC 60947-1 	300 V
protection class IP	IP20
shock resistance	
 according to IEC 60068-2-27 	11g / 15 ms
 for railway applications according to EN 61373 	Category 1, Class B
vibration resistance	
 according to IEC 60068-2-6 	10 55 Hz: 0.35 mm
 for railway applications according to EN 61373 	Category 1, Class B
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	05/31/2018
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
Control circuit/ Control	
control supply voltage 1 at AC	
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
control supply voltage 1	
• at DC	24 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value at	

AC at 50 Hz	
• initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.7
• full-scale value	1.1
ON-delay time	10
at AC maximum	10 ms
at DC maximum	10 ms
OFF-delay time	100 ms
design of the relay operating mechanism	poled
product component plug-in socket Short-circuit protection	No
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 6 A
switch required	
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0 2
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
type of voltage	mA) AC/DC
type of voltage ampacity of the output relay at AC-15	
• at 24 V at 50/60 Hz	3 A
• at 24 V at 50/60 Hz	3 A
• at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
	0.4.4
• at 250 V	0.1 A
at 250 V Electromagnetic compatibility	U.1 A
	0.1 A ambience A (industrial sector)
Electromagnetic compatibility	
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference	ambience A (industrial sector)
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	ambience A (industrial sector)
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference	ambience A (industrial sector) corresponds to degree of severity 3
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4	ambience A (industrial sector) corresponds to degree of severity 3 2 kV
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC	ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV (line to ground)
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5	ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line)
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3	ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data electromagnetic compatibility	ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV (line to ground) 1 kV (line to line) 10 V/m
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stallation/ mounting/	dimensions					
mounting position		any				
fastening method		scre	w and snap-on mounting o	nto 35 mm DIN rail		
height		100	mm			
width		22.5	5 mm			
depth		90 r	90 mm			
mbient conditions						
	neight above sea level ma	ximum 2.00	00 m			
ambient temperature	0					
 during operation 		-40	+60 °C			
during storage			-40 +80 °C			
 during transport 			-40 +80 °C			
elative humidity during			-40 +80 °C 10 95 %			
ertificates/ approvals	.	10.	95 %	_	_	
General Product App	oroval				EMC	
SP M	<u>Confirmation</u>	(CCC)		EAC	RCM	
Declaration of Confo	ormity	Test Certificates	Marine / Shipping			
EG-Konf.	UK CA		LRS	RINA	RMRS	
Marine / Shipping	other	Railway				
DNV-GL DWGLEDRAW	<u>Confirmation</u>	<u>Confirmation</u>				
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