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# **SIEMENS**

Product data sheet 3RT2015-2KB42



COUPLING RELAY, AC-3, 3KW/400V, 1NC, DC 24V, 0.7...1.25\*US, W. INTEGR. SUPPRESSORDIODE, SZ S00, SPRING-LOADED TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Product extension / auxiliary switch		No
Product extension / function module for communication		No
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
• note		Railway application: -40 70 °C with 10 mm clearance. See catalog for other rated conditions
Shock resistance		
at rectangular impulse		
• at DC		6,7g / 5 ms, 4,2g / 10 ms
at sine pulse		
• at DC		10,5g / 5 ms, 6,6g / 10 ms
Impulse voltage resistance / rated value	kV	6

Insulation voltage / rated value	V	690
Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
of the contactor / typical		30,000,000

• of the contactor / typical		30,000,000
Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating current / at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	Α	18
• at 60 °C ambient temperature / rated value	Α	16
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	m²	2.5
• at 60 °C / minimum permissible	m²	2.5
Operational current		
• at AC-2 / at 400 V / rated value	Α	7
• at AC-3		
• at 400 V / rated value	Α	7
• at 500 V / rated value	Α	6
• at 690 V / rated value	Α	4.9
at AC-4 / at 400 V / rated value	Α	6.5
Operational current		
• with 1 current path / at DC-1		
at 24 V / rated value	Α	15
• at 110 V / rated value	Α	1.5
• at 220 V / rated value	Α	0.6
• at 440 V / rated value	Α	0.42
• at 600 V / rated value	Α	0.42
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	15
• at 110 V / rated value	Α	8.4
• at 220 V / rated value	Α	1.2
• at 440 V / rated value	Α	0.6
at 600 V / rated value	Α	0.5
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	15
at 110 V / rated value	Α	15
at 220 V / rated value	Α	15

• at 440 V / rated value	Α	0.9
• at 600 V / rated value	Α	0.7
Operational current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	15
• at 110 V / rated value	Α	0.1
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	15
• at 110 V / rated value	Α	0.25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	15
• at 110 V / rated value	Α	15
• at 220 V / rated value	Α	1.2
• at 440 V / rated value	Α	0.14
• at 600 V / rated value	Α	0.14
Service power		
• at AC-1		
• at 230 V / rated value	kW	6.3
• at 400 V / rated value	kW	11
• at 500 V / rated value	kW	13.8
• at 690 V / rated value	kW	19
• at AC-2 / at 400 V / rated value	kW	3
• at AC-3		
• at 230 V / rated value	kW	1.5
• at 400 V / rated value	kW	3
• at 690 V / rated value	kW	4
• at AC-4 / at 400 V / rated value	kW	3
Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor	W	0.4
Off-load operating frequency		
• at AC	1/h	10,000
• at DC	1/h	10,000
Frequency of operation		
• at AC-1 / according to IEC 60947-6-2	1/h	1,000
• at AC-2 / according to IEC 60947-6-2	1/h	750
• at AC-3 / according to IEC 60947-6-2	1/h	750
at AC-37 according to IEC 00947-0-2	1/11	100

Control circuit:	
Design of the surge suppressor	with suppressor diode

Type of voltage / of the controlled supply voltage		DC
Control supply voltage		
• for DC / rated value	V	24
operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.7 1.25
Pull-in power / of the solenoid / for DC	W	2.8
Holding power / of the solenoid / for DC	W	2.8
Closing delay		
• at DC	ms	30 100
Opening delay		
• at DC	ms	7 13
Arcing time	ms	10 15
Residual current / of electronics / for control with signal <0>		
• at 230 V / with AC / maximum permissible	mA	3
• at 24 V / with DC / maximum permissible	mA	10
Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Operating current / of the auxiliary contacts		
• [nicht versorgt: PMD_ABP551_001_000]		
•	Α	2
• at 690 V	Α	1
UL/CSA ratings:		
yielded mechanical performance (hp)		
for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.25
<ul><li>at 110/120 V / rated value</li><li>at 230 V / rated value</li></ul>	hp hp	0.25 0.75

• at 200/208 V / rated value

• at 220/230 V / rated value

• at 460/480 V / rated value

• at 575/600 V / rated value

• at 480 V / rated value

• at 600 V / rated value

Operating current (FLA) / for three-phase squirrel cage motors

hp

hp

hp

hp

Α

Α

1.5

2

3

5

4.8

6.1

Contact rating designation / for auxiliary contacts / according to UL	
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Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
for short-circuit protection of the main circuit	
with type of assignment 1 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
at type of coordination 2 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A

A600 / Q600

Installation/mounting/dimensions:			
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022	
Type of fixing/fixation / series installation		Yes	
Width	mm	45	
Height	mm	70	
Depth	mm	73	
Distance, to be maintained, to the ranks assembly / sidewards	mm	0	

Connections:	
Design of the electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control current circuit	spring-loaded terminals
Type of the connectable conductor cross-section	
for main contacts	
• solid	2x (0.5 4 mm²)
finely stranded	
with conductor end processing	2x (0.5 2.5 mm²)
<ul> <li>without conductor final cutting</li> </ul>	2x (0.5 2.5 mm²)
for AWG conductors / for main contacts	2x (20 12)
for auxiliary contacts	
• solid	2x (0.5 4 mm²)
finely stranded	
with conductor end processing	2x (0.5 2.5 mm²)
without conductor final cutting	2x (0.5 2.5 mm²)
for AWG conductors / for auxiliary contacts	2x (20 12)

Sicherheitsrelevante Kenngrößen:		
B10 value / with high demand rate		

according to SN 31920		1,000,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
• with high demand rate / according to SN 31920	%	73
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	100
Product function		
mirror contact to IEC 60947-4-1		Yes
<ul> <li>positively driven operation to IEC 60947-5-1</li> </ul>		No

## Certificates/approvals:

#### **General Product Approval**

Functional Safety / Safety of Machinery Declaration of Conformity









Type Examination



#### **Test Certificates**

Special Test Certificate Type Test
Certificates/Test
Report

### Shipping Approval













## Shipping Approval





# other





## Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator

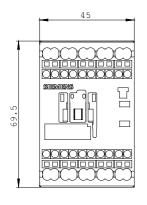
http://www.siemens.com/cax

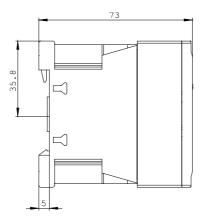
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

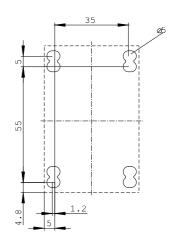
http://support.automation.siemens.com/WW/view/en/3RT2015-2KB42/all

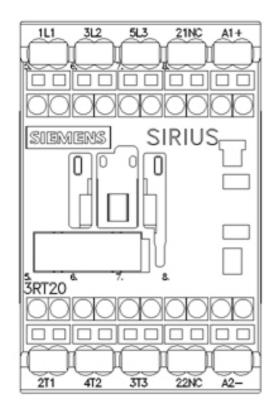
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

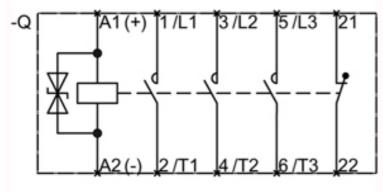
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT2015-2KB42











last change: Feb 15, 2013