# **SIEMENS**

## Data sheet

## 3RT2015-2JB42



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

	SIRIUS
	5INI05
	Coupling relay
V	690
	3
kV	6
	30 000 000
А	56
	IP20
	IP20
	Q
	Q
	3
	0
	3
V	690
	kV A

— at 400 V at ambient temperature 40 °C Rated value	А	18
	^	10
— up to 690 V at ambient temperature 40 °C Rated value	A	18
— up to 690 V at ambient temperature 60 °C Rated value	А	16
• at AC-2 at 400 V Rated value	А	7
• at AC-3	~	
	٨	7
— at 400 V Rated value	A	7
— at 500 V Rated value	A	6
— at 690 V Rated value	A	4.9
• at AC-4 at 400 V Rated value	A	6.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	1.5
— at 220 V Rated value	А	0.6
— at 440 V Rated value	А	0.42
— at 600 V Rated value	А	0.42
• at DC-3 at DC-5		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	0.1
Operating current with 2 current paths in series	-	
• at DC-1		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	8.4
— at 220 V Rated value	А	1.2
— at 440 V Rated value	А	0.6
— at 600 V Rated value	А	0.5
• at DC-3 at DC-5		
— at 110 V Rated value	А	0.25
— at 24 V Rated value	А	15
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	А	15
— at 110 V Rated value	А	15
— at 220 V Rated value	А	15
— at 440 V Rated value	А	0.9
— at 600 V Rated value	A	0.7
• at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 220 V Rated value	A	1.2

— at 24 V Rated value	А	15
— at 440 V Rated value	А	0.14
— at 600 V Rated value	А	0.14
Operating power		
• at AC-1 at 400 V Rated value	kW	11
• at AC-2 at 400 V Rated value	kW	3
• at AC-4 at 400 V Rated value	kW	3
Operating power	-	
• at AC-1		
— at 230 V at 60 °C Rated value	kW	6
— at 230 V Rated value	kW	6.3
— at 400 V at 60 °C Rated value	kW	10.5
— at 690 V at 60 °C Rated value	kW	18
— at 690 V Rated value	kW	19
• 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
Operating power for ≥ 200000 operating cycles at AC-4	_	
• at 400 V Rated value	kW	1.15
● at 690 V Rated value	kW	1.15
Operating frequency	-	
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control 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
Design of the surge suppressor		with diode
Closing power of the magnet coil for DC	W	2.8
Holding power of the magnet coil for DC	W	2.8
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		1
Number of NO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		0
Product expansion Auxiliary switch		No

Operating current at AC-15	-	
• at 230 V Rated value	А	10
• at 400 V Rated value	А	3
• at 690 V Rated value	А	1
Operating current	-	
• at DC-12 at 125 V Rated value	А	2
• at DC-12 at 220 V Rated value	А	1
• at DC-12 at 600 V Rated value	А	0.15
• at DC-13 at 125 V Rated value	А	0.9
• at DC-13 at 220 V Rated value	А	0.3
• at DC-13 at 600 V Rated value	А	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	А	6
— at 110 V Rated value	A	3
• at DC-13		
— at 24 V Rated value	A	10
— at 60 V Rated value	А	2
— at 110 V Rated value	A	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	4.8
• at 600 V Rated value	А	6.1
yielded mechanical performance [hp]		
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	0.25
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	0.75
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	1.5
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	2
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	3
<ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>	metric hp	5
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		

• 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
— with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>		fuse gL/gG: 10 A
required		
- 1		
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
Mounting type		screw and snap-on mounting onto 35 mm standard
		mounting rail according to DIN EN 50022
Side-by-side mounting		Yes
Height	mm	69.5
Width	mm	45
Depth	mm	73
Required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
<ul> <li>for grounded parts</li> </ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	6
Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (0,5 4 mm²)

<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end</li> </ul>		2x (0.5 2.5 mm²)
processing		
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (20 12)
<ul> <li>for auxiliary contacts</li> </ul>		
— single or multi-stranded		2x (0,5 4 mm²)
— finely stranded with core end processing		2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end</li> </ul>		2x (0.5 2.5 mm²)
processing		
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 12)
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures	-	
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN	FIT	100
31920		
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to	у	20
IEC 61508		
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-25 +60
• during storage	°C	-55 +80
Certificates/ approvals:		



VDE

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20152JB42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20152JB42/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20152JB42&lang=en





