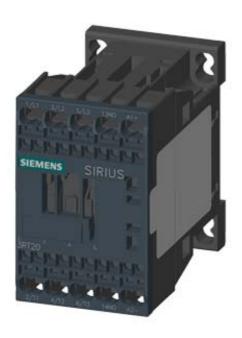
# **SIEMENS**

Product data sheet 3RT2015-2BE41



CONTACTOR, AC-3, 3KW/400V, 1NO, DC 60V, 3-POLE, SZ S00 SPRING-LOADED TERMINAL

General technical data:			
product brand name		SIRIUS	
Size of the contactor		S00	
Product extension			
auxiliary switch		Yes	
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 <b>+</b> 80	
during operating	°C	-25 +60	
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 with added auxiliary switch block / typical		10,000,000
<ul> <li>of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	mm²	2.5
• at 60 °C / minimum permissible	mm²	2.5
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	Α	18
• at 60 °C ambient temperature / rated value	А	16
• 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	А	4.9
• at AC-4 / at 400 V / rated value	Α	6.5
Operational current / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	Α	2.6
• at 690 V / rated value	Α	1.8
Operating 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
Operating 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
Operating performance		
• at AC-1 / at 230 V / rated value	kW	6.3
• at AC-1 / at 400 V / rated value	kW	11
• at AC-1 / 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
Operating performance / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	kW	1.15
• at 690 V / rated value	kW	1.15
Thermal short-time current / restricted to 10 s	Α	56
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	0.4
Off-load operating frequency		
• at DC	1/h	10,000

• with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	750
• with AC-3 / maximum	1/h	750
• with AC-4 / maximum	1/h	250

Control circuit/ Control:		
Voltage type / of control feed voltage		DC
Control supply voltage		
• for DC / rated value	V	60
Operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.8 1.1
Pull-in power / of the solenoid / for DC	W	4
Holding power / of the solenoid / for DC	W	4
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		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Operating current		
• at AC-12 / maximum	Α	10
• at AC-15		
at 230 V / rated value	Α	10
at 400 V / rated value	Α	3
at 500 V / rated value	Α	2
at 690 V / rated value	Α	1
Operating current / at DC-12		
• at 24 V / rated value	Α	10
• at 48 V / rated value	Α	6
• at 60 V / rated value	Α	6
• at 110 V / rated value	Α	3

• at 125 V / rated value	Α	2
• at 220 V / rated value	Α	1
• at 440 V / rated value	Α	0.3
• at 600 V / rated value	Α	0.15
Operating current / at DC-13		
at 24 V / rated value	Α	10
at 48 V / rated value	Α	2
• at 60 V / rated value	Α	2
• at 110 V / rated value	Α	1
• at 125 V / rated value	Α	0.9
• at 220 V / rated value	Α	0.3
• at 440 V / rated value	Α	0.14
• at 600 V / rated value	Α	0.1

UL/CSA ratings:		
yielded mechanical performance [hp]		
for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.25
• at 230 V / rated value	hp	0.75
for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	1.5
• at 220/230 V / rated value	hp	2
• at 460/480 V / rated value	hp	3
• at 575/600 V / rated value	hp	5
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	Α	4.8
• at 600 V / rated value	Α	6.1
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

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

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
Mounting type / series installation		Yes
Width	mm	45
Height	mm	69.5
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sidewards	mm	0

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

Safety related data:			
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] / with low demand rate			
according to SN 31920	FIT	100	
Product function			
mirror contact to IEC 60947-4-1		Yes	
• comment		with 3RH29	
<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

#### **Shipping Approval**









GL





#### **Shipping Approval**

other









Environmental Confirmations

### Further information:

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

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

Industry Mall (Online ordering system)

http://mall.industry.siemens.com/

#### Cax online generator

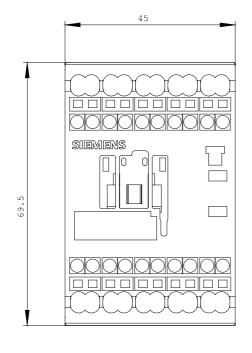
http://www.siemens.com/cax

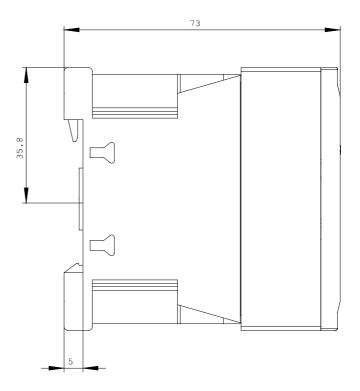
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

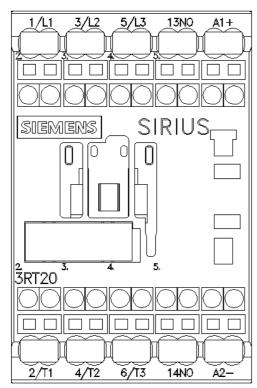
http://support.automation.siemens.com/WW/view/en/3RT2015-2BE41/all

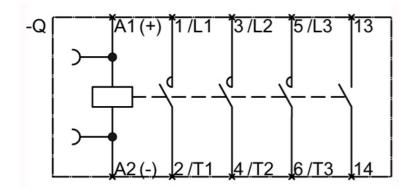
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT2015-2BE41









last change: Aug 4, 2014