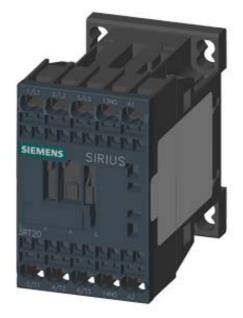
SIEMENS

Product data sheet

3RT2015-2AP61



CONTACTOR, AC-3, 3KW/400V, 1NO, AC 220V 50HZ 240V 60 HZ, 3-POLE, SZ S00 SPRING-LOADED TERMINAL

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 +80
during operating	°C	-25 +60
Shock resistance		
• at rectangular impulse		
• at AC		6,7g / 5 ms, 4,2g / 10 ms
• at sine pulse		
• at AC		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
 of the contactor with added electronics-compatible auxiliary switch block / typical 		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	m²	2.5
• at 60 °C / minimum permissible	m²	2.5
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	А	18
• at 60 °C ambient temperature / rated value	А	16
• at AC-2 / at 400 V / rated value	А	7
• at AC-3		
• at 400 V / rated value	А	7
• at 500 V / rated value	А	6
• at 690 V / rated value	А	4.9
• at AC-4 / at 400 V / rated value	А	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
 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
• 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	А	0.7
Operating current	-	
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	А	15
• at 110 V / rated value	А	0.1
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	15
• at 110 V / rated value	А	0.25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	А	15
• at 110 V / rated value	А	15
• at 220 V / rated value	А	1.2
• at 440 V / rated value	А	0.14
• at 600 V / rated value	А	0.14
Service power	-	
• 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
Thermal short-time current / restricted to 10 s	A	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 AC	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-4 / according to IEC 60947-6-2	1/h	250
Control circuit/ Control:		

Type of voltage / of the controlled supply voltage		AC
Control supply voltage	_	
• at 50 Hz / at AC / rated value	V	220
• at 60 Hz / at AC / rated value	V	240
operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC		0.8 1.1
• at 60 Hz / for AC		0.85 1.1
Apparent pull-in power / of the solenoid / for AC	V-A	32
Apparent holding power / of the solenoid / for AC	V-A	4.8
Inductive power factor		
• with the pull-in power of the coil		0.8
with the pull-in power of the coil		0.25
Closing delay		
• at AC	ms	935
Opening delay		
• at AC	ms	3.5 14
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

Contact reliability / of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) Number of NC contacts / for auxiliary contacts / instantaneous 0 switching Number of NO contacts / for auxiliary contacts / instantaneous 1 switching **Operating current** • at AC-12 / maximum А 10 • at AC-15 • at 230 V / rated value А 10 • at 400 V / rated value 3 А • at 500 V / rated value 2 А • at 690 V / rated value А 1 Operating current / at DC-12 • at 24 V / rated value 10 A • at 48 V / rated value А 6 • at 60 V / rated value А 6 • at 110 V / rated value 3 А 2

А

• at 220 V / rated value	А	1
• at 440 V / rated value	А	0.3
• at 600 V / rated value	А	0.15
Operating current / at DC-13		
• at 24 V / rated value	А	10
• at 48 V / rated value	А	2
• at 60 V / rated value	А	2
• at 110 V / rated value	А	1
• at 125 V / rated value	А	0.9
• at 220 V / rated value	А	0.3
• at 440 V / rated value	А	0.14
• at 600 V / rated value	А	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
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	4.8
• at 600 V / rated value	А	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

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	69.5
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sidewards	mm	0

Connections/ terminals:

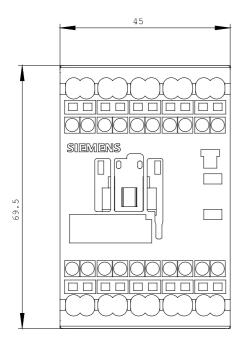
Design of the electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
 for main contacts / finely stranded / with conductor end processing 	2x (0.5 2.5 mm²)
 for main contacts / finely stranded / without conductor final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

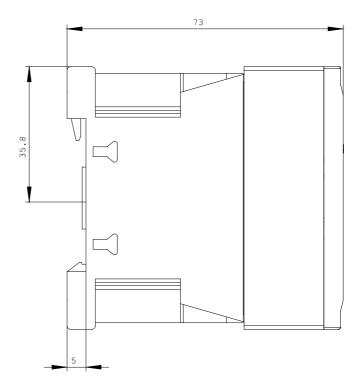
B10 value / with high demand rate			
according to SN 31920		1,000,000	
T1 value / for proof test interval or service life			
according to IEC 61508	а	20	
Proportion of dangerous failures			
• with low demand rate / according to SN 31920	%	40	
 with high demand rate / according to SN 31920 	%	73	
Failure rate (FIT value) / with low demand rate			
according to SN 31920	FIT	100	
Product function			
• mirror contact to IEC 60947-4-1		Yes	
• comment		with 3RH29	
 positively driven operation to IEC 60947-5-1 		No	

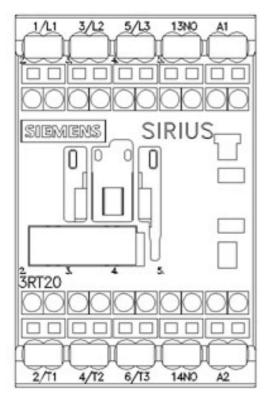
Certificates/ approvals:

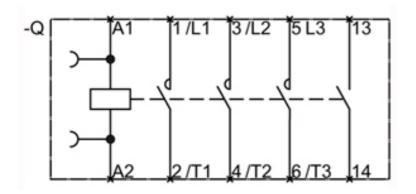
General Product A	oproval			Functional Safety / Safety of Machinery	Declaration of Conformity
	(SA)	EHE		Type Examination	EG-Konf.
Test Certificates					
Special Test Certificate					
Shipping Approval					
ABS	B U R E A U VERITAS	ĴŠ DNV DNV	GL	Lloyd's Kegister Lrs	PRS
Shipping Approval		other			
RINA	RMRS	<u>Confirmation</u>		Environmental Confirmations	
urther informatio	n:				
formation- and Do		logs, Brochures,) s/catalogs			
dustry Mall (Online ttp://www.siemens.co		s/mall			
ax online generato					
ervice&Support (M		, Characteristics, FAQs W/view/en/3RT2015-2AP			

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2015-2AP61









last change:

Dec 2, 2013