SIEMENS

Data sheet 3RT2015-1AN62



CONTACTOR, AC-3, 3KW/400V, 1NC, AC 200V 50HZ, 200...220V 60HZ 3-POLE, SZ S00 SCREW TERMINAL

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:		
Insulation voltage		
Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the contactor typical 		30 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 		5 000 000
 of the contactor with added auxiliary switch block typical 		10 000 000
Thermal short-time current restricted to 10 s	Α	56
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
● acc. to DIN EN 61346-2		Q
● acc. to DIN EN 81346-2		Q

Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating voltage	

 at AC-3 Rated value maximum 	V	690
Operating current		
● at AC-1		
 at 400 V at ambient temperature 40 °C Rated value 	Α	18
— up to 690 V at ambient temperature 40 °C Rated value	Α	18
— up to 690 V at ambient temperature 60 °C Rated value	Α	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	Α	4.9
• at AC-4 at 400 V Rated value	Α	6.5
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
• at DC-3 at DC-5		
— at 24 V Rated value	Α	15
— at 110 V Rated value	Α	0.1
Operating current 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
• at DC-3 at DC-5		
— at 110 V Rated value	Α	0.25
— at 24 V Rated value	Α	15
Operating current 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

•	45
	15
	1.2
Α	15
Α	0.14
Α	0.14
kW	11
kW	3
kW	3
kW	6
kW	6.3
kW	10.5
kW	18
kW	19
kW	1.5
kW	3
kW	4
kW	1.15
kW	1.15
1/h	750
	AC
V	200
V	220
	0.8 1.1
	0.85 1.1
	1
	kW kW kW kW kW kW kW kW

for auxiliary contacts				
instantaneous contact		0		
Product expansion Auxiliary switch		Yes		
Operating current at AC-15	_			
at 230 V Rated value	Α	10		
● at 400 V Rated value	Α	3		
● at 690 V Rated value	Α	1		
Operating current				
• at DC-12 at 125 V Rated value	Α	2		
• at DC-12 at 220 V Rated value	Α	1		
• at DC-12 at 600 V Rated value	Α	0.15		
• at DC-13 at 125 V Rated value	Α	0.9		
• at DC-13 at 220 V Rated value	Α	0.3		
● at DC-13 at 600 V Rated value	Α	0.1		
Operating current				
• at DC-12				
— at 60 V Rated value	Α	6		
— at 110 V Rated value	Α	3		
• at DC-13				
— at 24 V Rated value	Α	10		
— at 60 V Rated value	Α	2		
— at 110 V Rated value	Α	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	Α	4.8		
● at 600 V Rated value	Α	6.1		
yielded mechanical performance [hp]				
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.25		
 for single-phase AC motor at 230 V Rated value 	metric hp	0.75		
• for three-phase AC motor at 200/208 V Rated value	metric hp	1.5		
• for three-phase AC motor at 220/230 V Rated value	metric hp	2		
◆ for three-phase AC motor at 460/480 V Rated value	metric hp	3		
• for three-phase AC motor at 575/600 V Rated	metric	5		

Short-circuit:

Contact rating of the auxiliary contacts acc. to UL

A600 / Q600

hp

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of assignment 1 required
 - with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

fuse gL/gG: 10 A

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	57.5
Width	mm	45
Depth	mm	73
Required spacing		
with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
for grounded parts		
— 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

Type of electrical connection	
• for main current circuit	screw-type terminals

• for auxiliary and control current circuit screw-type terminals

Type of connectable conductor cross-section

Connections/ Terminals:

• for main contacts		
 single or multi-stranded 		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 16), 2x (18 14), 2x 12
 for auxiliary contacts 		
 single or multi-stranded 		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14), 2x 12
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	27
● at 60 Hz	V·A	24.3
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		

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 31920	FIT	100
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to IEC 61508	У	20
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		

during operation	°C	-25 +60
during storage	°C	-55 + 80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination



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Shipping Approval

Certificates

Special Test Certificate











GL

Shipping Approval

other







Confirmation

Environmental Confirmations



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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT20151AN62}$

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

http://support.automation.siemens.com/WW/view/en/3RT20151AN62/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=3RT20151AN62&lang=en



