SIEMENS

Data sheet

3RT2015-2BG42



CONTACTOR, AC-3, 3KW/400V, 1NC, DC 125V, 3-POLE, SZ S00 SPRING-LOADED 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	А	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 $^\circ C$	А	18
Rated value		
— 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		
— 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
• 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	А	0.7

• at DC-3 at DC-5		
— at 110 V Rated value	А	15
— at 220 V Rated value	А	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	125
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 1.1
Closing power of the magnet coil for DC	W	4
Holding power of the magnet coil for DC	W	4
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
— instantaneous contact		1
Number of NO contacts		

— instantaneous contact		0		
Product expansion Auxiliary switch		Yes		
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	A	0.1		
Operating current				
• at DC-12				
— at 60 V Rated value	А	6		
— at 110 V Rated value	А	3		
• at DC-13				
— at 24 V Rated value	А	10		
— at 60 V Rated value	А	2		
— at 110 V Rated value	А	1		
Contact reliability of the auxiliary contacts	_	1 faulty switching per 100 million (17 V, 1 mA)		
	_			
JL/CSA ratings:	_			
Full-load current (FLA) for three-phase AC motor	^	4.8		
• at 480 V Rated value	A			
• at 600 V Rated value	A	6.1		
yielded mechanical performance [hp]	motrio	0.25		
 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		

metric

 value
 hp

 • for three-phase AC motor at 575/600 V Rated value
 metric hp

 Contact rating of the auxiliary contacts acc. to UL
 He

• for three-phase AC motor at 460/480 V Rated

Short-circuit:

Design of the fuse link

3

5

A600 / Q600

• 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
 for short-circuit protection of the auxiliary switch 		fuse gL/gG: 10 A
required		
	_	
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		
 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
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		

	2x (0,5 4 mm²)
	2x (0.5 2.5 mm²)
	2x (0.5 2.5 mm²)
	2x (20 12)
	2x (0,5 4 mm²)
	2x (0.5 2.5 mm²)
	2x (0.5 2.5 mm²)
	2x (20 12)
	1 000 000
%	40
%	73
FIT	100
	Yes
У	20
	finger-safe
	S00
m	2 000
	-25 +60
°C	-55 +80
	% FIT y m

General Produc	t Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
	CSA	EHC		Type Examination	EG-Konf.
Test Certificates	Shipping App	proval			
Special Test Certificate	ABS	BUREAU VERITAS	DINV DNV	GL GL	Lloyd's Register LRS
Shipping Appro	val		other		
PRS	RINA	RMRS	<u>Confirmation</u>	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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20152BG42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20152BG42/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=3RT20152BG42&lang=en





