### **SIEMENS**

### Data sheet

### 3RT2017-1CP04-3MA0



CONTACTOR, AC-3, 5.5KW/400V, 2NO+2NC, AC 230V, 50/60 HZ, W. PLUGGED-ON VARISTOR 3-POLE, SZ S00 SCREW TERMINAL PERMANENT AUX. SWITCH

•		
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)		
<ul> <li>of the contactor typical</li> </ul>		10 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>		5 000 000
compatible auxiliary switch block typical		
<ul> <li>of the contactor with added auxiliary switch</li> </ul>		10 000 000
block typical		
Thermal short-time current restricted to 10 s	Α	90
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

**SIRIUS** 

Operating voltage

<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating current		
• at AC-1		
<ul> <li>— at 400 V at ambient temperature 40 °C</li> <li>Rated value</li> </ul>	Α	22
<ul> <li>up to 690 V at ambient temperature 40 °C</li> <li>Rated value</li> </ul>	Α	22
— up to 690 V at ambient temperature 60 °C Rated value	Α	20
• at AC-2 at 400 V Rated value	Α	12
• at AC-3		
— at 400 V Rated value	Α	12
— at 500 V Rated value	Α	9.2
— at 690 V Rated value	Α	6.7
• at AC-4 at 400 V Rated value	Α	8.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.1
— at 220 V Rated value	Α	0.8
— at 440 V Rated value	Α	0.6
— at 600 V Rated value	Α	0.6
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— 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	20
— at 110 V Rated value	Α	12
— at 220 V Rated value	Α	1.6
— at 440 V Rated value	Α	0.8
— at 600 V Rated value	Α	0.7
• at DC-3 at DC-5		
— at 110 V Rated value	Α	0.35
— at 24 V Rated value	Α	20
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	20
— at 440 V Rated value	Α	1.3
— at 600 V Rated value	Α	1

• at DC-3 at DC-5		
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	1.5
— at 24 V Rated value	Α	20
— at 440 V Rated value	Α	0.2
— at 600 V Rated value	Α	0.2
Operating power		
• at AC-1 at 400 V Rated value	kW	13
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	kW	4
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	7.5
— at 230 V Rated value	kW	7.5
— at 400 V at 60 °C Rated value	kW	13
— at 690 V at 60 °C Rated value	kW	22
— at 690 V Rated value	kW	22
• at AC-3		
— at 230 V Rated value	kW	3
— at 400 V Rated value	kW	5.5
— at 690 V Rated value	kW	5.5
Operating power for ≥ 200000 operating cycles at		
AC-4		
● at 400 V Rated value	kW	2
● at 690 V Rated value	kW	2.5
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
● at 50 Hz Rated value	V	230
● at 60 Hz Rated value	V	230
Operating range factor control supply voltage rated value of the magnet coil with AC		
● at 50 Hz		0.8 1.1
● at 60 Hz		0.85 1.1
Design of the surge suppressor		with varistor
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		
<ul> <li>instantaneous contact</li> </ul>		2

Number of NO contacts		
• for auxiliary contacts		
— instantaneous contact		2
Product expansion Auxiliary switch		No
Operating current at AC-15		
• at 230 V Rated value	Α	6
• 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	6
— 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)
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	11
● at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	0.5
value	hp 	
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	2
• for three-phase AC motor at 200/208 V Rated	metric	3
value	hp	J
• for three-phase AC motor at 220/230 V Rated	metric	3
value	hp	
• for three-phase AC motor at 460/480 V Rated	metric	7.5
value	hp	
• for three-phase AC motor at 575/600 V Rated	metric	10
value	hp	
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

Number of NO contacts

Short-circuit:	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— 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 required</li> </ul>	fuse gL/gG: 10 A

nstallation/ 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
<ul> <li>Side-by-side mounting</li> </ul>		Yes
Height	mm	57.5
Width	mm	45
Depth	mm	117
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
• 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 • for auxiliary and control current circuit screw-type terminals screw-type terminals

_	
	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (20 16), 2x (18 14), 2x 12
	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (20 16), 2x (18 14), 2x 12
V·A	37
V·A	43
	1 000 000
%	40
%	73
FIT	100
	Yes
У	20
	finger-safe
	S00
m	2 000
°C	-25 +60
	V·A  % % FIT

°C

• during storage

Certificates/ approvals:

-55 ... +80

## General Product Approval Functional Declaration of Safety/Safety Conformity Certificates of Machinery







Type Examination



Special Test Certificate

### **Shipping Approval**









GL





### **Shipping Approval**

### other





Environmental Confirmations

Confirmation



#### Further informatior

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

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

Industry Mall (Online ordering system)

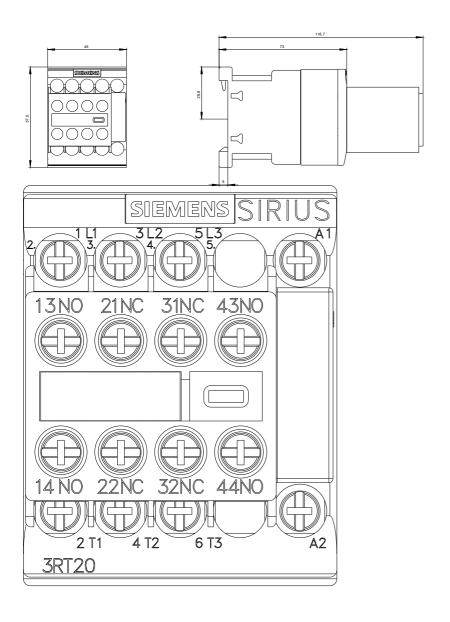
http://www.siemens.com/industrymall

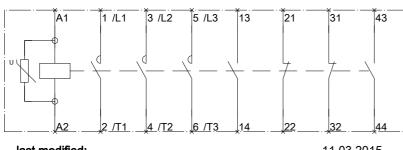
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20171CP043MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20171CP043MA0/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=3RT20171CP043MA0&lang=en





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