# **SIEMENS**

WW.100Y.COM.TW IW.100Y.COM.TW Data sheet 3RT2017-1AP01 WWW.100

Power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 230 V AC, 50 / 60 Hz 3-pole, Size S00 screw terminal WWW.100Y.COM. WWW.100

WWW.100Y.

WWW.100Y.COM.TV



WWW.100X.COM: 勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

TWW.100 T. COM.

General technical data	
Size of contactor	S00
Product extension	TWW.1002 COM. TWW.100 SV.COM.
<ul> <li>function module for communication</li> </ul>	No W.1003. COM. TO W. TO
Auxiliary switch	Yes
Power loss [W] for rated value of the current	WW.100x.COM.TW WWW.100x.COM
at AC in hot operating state	3.6 W
at AC in hot operating state per pole	1.2 W
Power loss [W] for rated value of the current without load current share typical	5.7 W
Surge voltage resistance	WWW.TOOX.COME.TW WWW.X100X.
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation	TH MAN, TOOK COME LEM MAN,
<ul> <li>between coil and main contacts acc. to EN 60947-1</li> </ul>	400 V

Destantian desse ID	- ON COMME
Protection class IP	MAN TO COM. TW
• on the front	IP20
of the terminal	IP20
Shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
Mechanical service life (switching cycles)	WW. WIOON. CONITW
of contactor typical	30 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	T.K. WWW.100X.COM.TW
Reference code acc. to DIN EN 81346-2	OIM MANTONY CONTIN
Ambient conditions	ONLTH WWW.LOW.COMPT
Installation altitude at height above sea level	COM. TO WANT COM.
• maximum	2 000 m
Ambient temperature	COM.THY WW.100X.COM.TW
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	1007. COM TWY THAT COM TW
Number of poles for main current circuit	3 COMPANY WWW.100N-COMPANY
Number of NO contacts for main contacts	300 COM.TW WW.100 COM.TW
Operating voltage	W 100 Y. COM. TW WWW. 100 Y. COM. TW
at AC-3 rated value maximum	690 V
Operating current	ALL TOOK CON TAN MAN TOOK CON TAN
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	22 A
• at AC-1	MANN TOOK COME LAN MANN TOOK COM
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-2 at 400 V rated value	12 A
• at AC-3	12 A WWW.100x.COM.TW WWW.100x.CO
<ul><li>at AC-2 at 400 V rated value</li><li>at AC-3</li><li>— at 400 V rated value</li></ul>	12 A
— at 500 V rated value	12 A 9.2 A 6.7 A
— at 690 V rated value	9.2 A 6.7 A 8.5 A
<ul><li>— at 690 V rated value</li><li>• at AC-4 at 400 V rated value</li></ul>	6.7 A 8.5 A 19.4 A
	8.5 A 19.4 A
at AC-5a up to 690 V rated value	10.77

• at AC-5b up to 400 V rated value	9.9 A
● at AC-6a	
— up to 230 V for current peak value n=20	7.2 A
rated value	
— up to 400 V for current peak value n=20	7.2 A
rated value	WWW.100X.COM.TR
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	6.7 A WWW.100Y.COM.TW
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	4.8 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	4.8 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	4.8 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	4.8 A
Minimum cross-section in main circuit	COM.TW TWW.1007.COM.TW
at maximum AC-1 rated value	4 mm <sup>2</sup>
Operating current for approx. 200000 operating cycles at AC-4	ON.COM.TW WWW.100X.COM.TW
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
Operating current	TOOY.COMIN WWW.TOOY.COM.TW
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	2.1 A 0.8 A
— at 440 V rated value	2.1 A 0.8 A 0.6 A 0.6 A
— at 600 V rated value	
• with 2 current paths in series at DC-1	
— at 24 V rated value	20 1
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 220 V rated value  — at 440 V rated value	
<ul><li>— at 440 V rated value</li><li>— at 600 V rated value</li></ul>	1.6 A 0.8 A 0.7 A
- 11 0	0.8 A 0.7 A 20 A
— at 24 V rated value	20 A
	20 A
— at 110 V rated value  — at 220 V rated value  — at 440 V rated value	20 A

— at 600 V rated value	1A 1007
Operating current	WIN TOO TO WILL
• at 1 current path at DC-3 at DC-5	WW.TW.100X.COM.TW
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
Operating power	WITH WHAT TOOK CONTIN
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-2 at 400 V rated value	5.5 kW
• at AC-3	TOO TOWN TOWN COME TW
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW 5.5 kW
— at 690 V rated value	5.5 kW
Operating power for approx. 200000 operating cycles at AC-4	WWW.100X.COM.TW WWW.100Y.COM.T
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
No-load switching frequency	WW.1007.COM.TW WWW.1007.CO
• at AC	10 000 1/h
Operating frequency	M. 100x. COM.TH. M. 100x.C
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	TW WINN TON TON TAN
Type of voltage of the control supply voltage	AC

Control supply voltage at AC	1007.00
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Operating range factor control supply voltage rated	WWW.100V.COM.
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	MMM'Jook'COM',
• at 50 Hz	37 V·A
● at 60 Hz	33 V·A
Inductive power factor with closing power of the coil	"N WWW.TIO COM. TW
• at 50 Hz	0.8
• at 60 Hz	0.75
Apparent holding power of magnet coil at AC	THE WINN, TOUR COM. THE
• at 50 Hz	5.7 V·A
• at 60 Hz	4.4 V·A
Inductive power factor with the holding power of the	OM.TW WITH WILLIAM
coil	
● at 50 Hz	0.25
• at 60 Hz	0.25
Closing delay	O'S COMITY WWW.1003.COM.TH
• at AC	8 33 ms
Opening delay	100X.COM.TW WW.100X.COM.TW
• at AC	4 15 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	THE TOOK COME THE WAY TOOK CONTEN
Number of NO contacts for auxiliary contacts	MAN'100X'CON'IA MAM'100X'COW'IA
• instantaneous contact	MAN'100X'COW'LA MAN'100X'COW'LA
Operating current at AC-12 maximum	10 A
Operating current at AC-15	10 A 10 A 100 X COM TWO WINDS COM
at 230 V rated value	
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul>	10 A 3 A 2 A
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	10 A 3 A 2 A
at 500 V rated value     at 690 V rated value  Operating current at DC-12	
Operating current at DC-12	
at 690 V rated value  Operating current at DC-12      at 24 V rated value      at 48 V rated value	10 A
• at 110 V rated Value	3 A
at 125 V rated value     at 220 V rated value	2 A 1 A
at 120 V fatou Value	

• at 600 V rated value	0.15 A
Operating current at DC-13	W. W. 100X. COM. TW
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
ON COMPANY OF CO	

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	TANNION TOWN
• at 480 V rated value	11 A
• at 600 V rated value	11 A
Yielded mechanical performance [hp]	ONITH WW. 100X. CONT.
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for three-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection	
Design of the fuse link	W.100 F. COM. TW.
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)

nstallation/ mounting/	dimensions	WWW. TOOK CONTINUE MANY TOOK CO
Mounting position	WWW.IOOY.COM.	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	WWW.100Y.COT	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<ul> <li>Side-by-side mour</li> </ul>	nting WWW.	Yes
Height	MAN . 100 X.C	58 mm
Width	WWW.100Y.	45 mm

Depth	73 mm
Required spacing	ZW 100Y. COM IN
with side-by-side mounting	WWW.TOOX.COMITW
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	TW WWW.IOOX.COM.
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
TW 100 at the side TW	COMPT MANAGEMENT COMPT
Connections/ Terminals	CONTACTOR CONTACTOR
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	W.100Y.COM.TW WW.100Y.COM.TW
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
Connectable conductor cross-section for main	WWW. TIOOX. COST. TW WWW. TIOOX. CO.
contacts	WWW. TOOY. CO.
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
Connectable conductor cross-section for auxiliary contacts	
• single or multi-stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
Type of connectable conductor cross-sections	IN MANAGON CONTINUE AND THE
• 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)
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	WWW.100X.COM.TW
for main contacts	20 12
for auxiliary contacts	20 12

B10 value	
• with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	WW.100Y.COM.TW
• with low demand rate acc. to SN 31920	40 %
• with high demand rate acc. to SN 31920	73 %
Failure rate [FIT]	LTW WWW.100Y.COM.TW
• with low demand rate acc. to SN 31920	100 FIT
Product function	TIW WWW. 100Y.CO.M.TW
Mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29
T1 value for proof test interval or service life acc. to	20 y

WWW.100Y.C

W100Y.COM.TW

WWW.100Y.CO.M.

WWW.100Y

WWW.100Y.C

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WWW.100X:

### **General Product Approval**







KC





**EMC** 

Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates		Marine / Ship- ping
Type Examination	- 100°	Miscellaneous	Type Test Certific-	Special Test Certi-	TICAN BURE
Certificate	C'EM'100		ates/Test Report	ficate	2 2
	EG-Konf.				ABS

### Marine / Shipping













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#### other

Confirmation



## Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-1AP01

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AP01

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

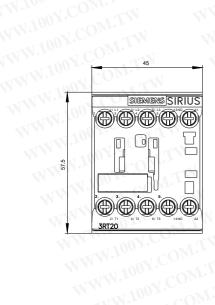
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AP01&lang=en

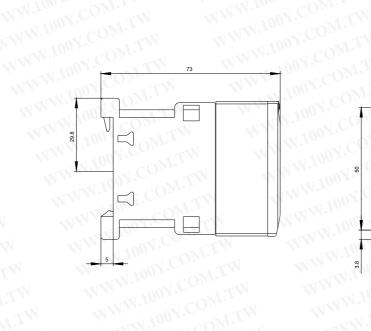
Characteristic: Tripping characteristics, I2t, Let-through current

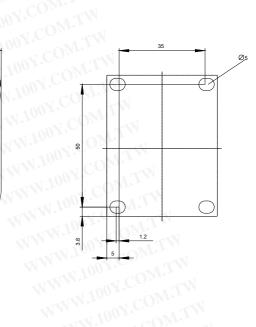
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP01/char

Further characteristics (e.g. electrical endurance, switching frequency)

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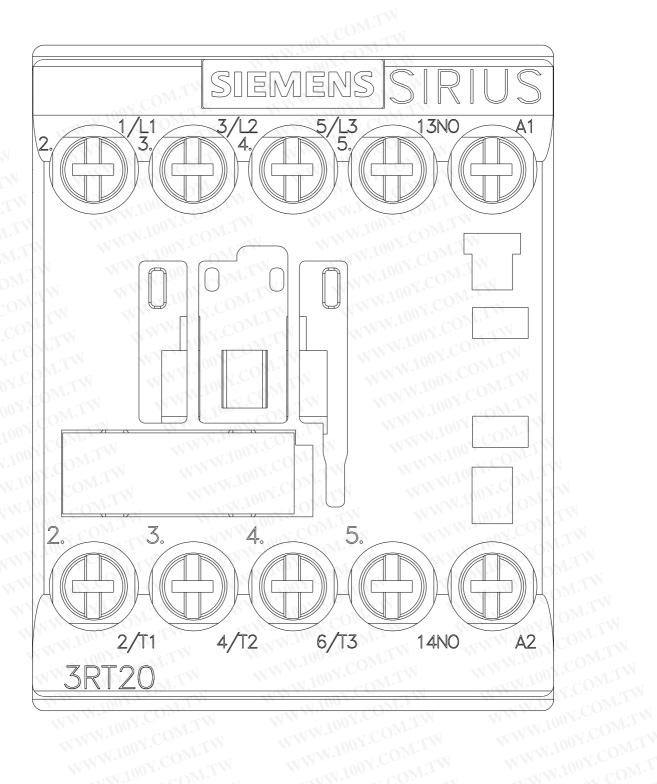




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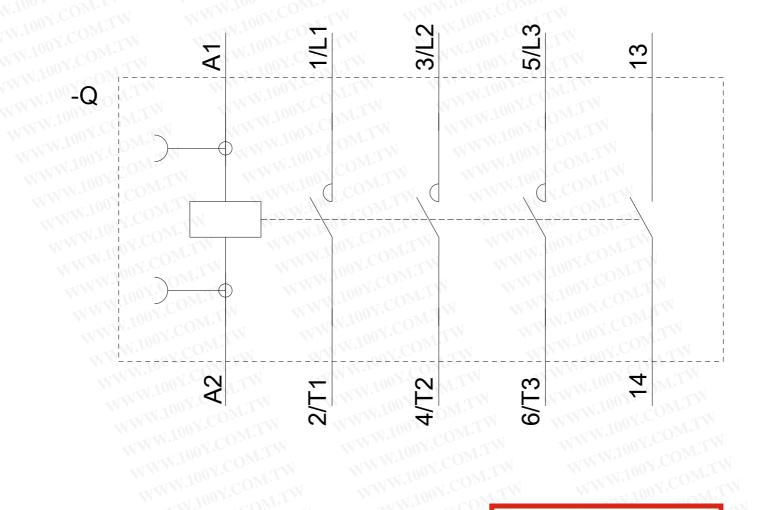
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