SIEMENS

Data sheet 3RT2517-2BF40



Power contactor, AC-3 12 A, 5.5 kW / 400 V 2 NO + 2 NC 110 V DC 4-pole Size S00 Spring-type terminals

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	2

### AC-1 up to 690 V — at ambient temperature 40 °C rated value — at ance and AC-2 at AC-3 at	number of NC contacts for main contacts	2
* at AC-1 up to 690 V — at ambient temperature 60 °C rated value *at AC-2 at AC-3 at 400 V — per NC contact rated value *at AC-2 at AC-3 at 400 V — per NC contact rated value *at 1 current path at DC-1 — at 2 v Y rated value — at 2 v Y rated value — at 410 V rated value — at 440 V rated value — at 410 V rated value — at 410 V rated value — at 410 V rated value — at 2 v Y per NC contact rated value — at 3 v Y per NC contact rated value — at 4 v Y per NC contact rated value — at 4 v Y per NC contact rated value — at 2 v Y per NC contact rated value — at 2 v Y per NC contact rated value — at 2 v Y per NC contact rated value — at 2 v y per NC contact rated value — at 3 v y per NC contact rated value — at 4 v y per NC contact rated value — at 4 v y per NC contact rated value — at 4 v y per NC contact rated value — at 4 v y per NC contact rated value — at 4 v y per NC contact rated value — at 4 v y per NC contact rated value — at 4 v y per NC contact rated value — at		
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• limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC • at DC • operating frequency at AC-1 maximum control circuit/ Control type of voltage of the control supply voltage • rated value operating range factor control supply voltage rated value of magnet coil at DC initial value • full-scale value closing power of magnet coil at DC 4 W 1.2 W 1.3 W 1.4 W 1.5 W 1.6 AC-1 rated value 1.6 AC-1 rated value 1.7 W 1.8 W 1.9 W 1.9 W 1.1 W 1.2 W 1.3 W 1.4 W 1.4 W 1.5 W 1.5 W 1.6 AC-1 rated value 1.7 W 1.8 W 1.9 W 1.9 W 1.9 W 1.9 W 1.0 NC-1 rated value 1.0 NC-1 rated value 1.2 W 1.2 W 1.3 W 1.4 W 1.5 W 1.6 AC-1 rated value 1.6 AC-1 rated value 1.7 W 1.8 W 1.9 W 1.9 W 1.9 W 1.9 W 1.9 W 1.9 W 1.0 NC-1 rated value 1.0 NC-1 rated value 1.2 W 1.2 W 1.3 W 1.4 W 1.5 W 1.6 AC-1 rated value 1.6 AC-1 rated value 1.7 W 1.8 W 1.9 W 1.0	_	74 A; Use minimum cross-section acc. to AC-1 rated value
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control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value closing power of magnet coil at DC 4 W		DC
 rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value closing power of magnet coil at DC 1.1 4 W 		
operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value closing power of magnet coil at DC 4 W		110 V
● full-scale value 1.1 closing power of magnet coil at DC 4 W	operating range factor control supply voltage rated	
closing power of magnet coil at DC 4 W	• initial value	0.8
	• full-scale value	1.1
holding power of magnet coil at DC 4 W	closing power of magnet coil at DC	4 W
- · · · · · · · ·	holding power of magnet coil at DC	4 W

aloging delay	
closing delay	20 100 mg
• at DC	30 100 ms
opening delay ● at DC	7 13 ms
arcing time	7 13 ms 10 15 ms
Auxiliary circuit	10 10 1110
	0
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
at 400 V rated value	3 A
operational current at DC-12	
• at 48 V rated value	6 A
 at 60 V rated value 	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	40.4
• 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 at 220 V rated value	1 A
at 220 V rated valueat 600 V rated value	0.3 A 0.1 A
contact reliability of auxiliary contacts UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
yielded mechanical performance [hp]	2 hn
 for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value 	2 hp 5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	, 1000 / 1000
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35 A (690 V, 100 kA)
with type of coordination is required - with type of assignment 2 required	gG: 20A (690V, 100kA)
for short-circuit protection of the auxiliary switch required	fuse 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
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
• side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting— forwards	0 mm
— lorwards — backwards	0 mm
— upwards — upwards	0 mm
— upwards — downwards	0 mm
— downwards — at the side	0 mm
for grounded parts	V IIIII
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
aptraido	V IIIII

— at the side	6 mm
— downwards	0 mm
 for live parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for main contacts	20 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
 positively driven operation according to IEC 60947- 5-1 	No
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Contification of an annual of	

Certificates/ approvals

General Product Approval

EMC



Confirmation









Functional
Safety/Safety of Declaration of Conformity
Machinery

Test Certificates

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Dangerous Good

Confirmation



Transport Informa-<u>tion</u>

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2517-2BF40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2517-2BF40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2BF40

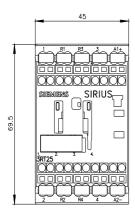
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

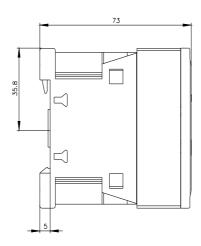
=3RT2517-2BF40&lang=en http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=

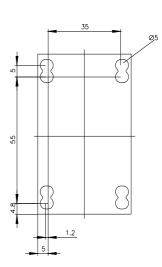
Characteristic: Tripping characteristics, I2t, Let-through current

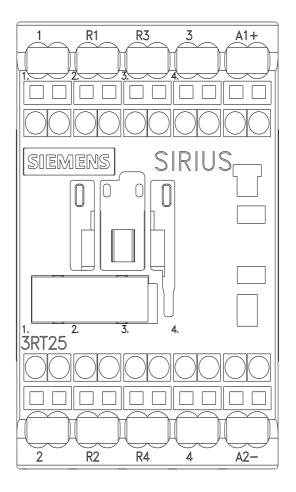
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2BF40/char

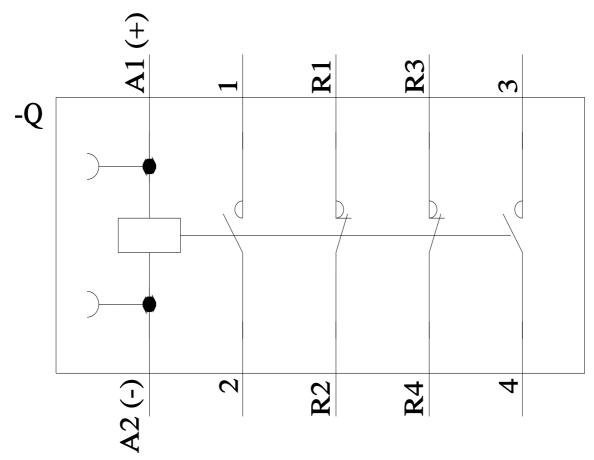
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2BF40&objecttype=14&gridview=view1











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