SIEMENS

Data sheet 3RT2517-2BF40



power contactor, AC-3, 12 A, 5.5 kW / 400 V, 4-pole, 110 V DC, main contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00

product type designation 98725 size of contactor \$00 product extension		
product type designation 3RT25 Sincer technical data **Stace of contactor** **Stace of contactor** **Inuction module for communication		SIRIUS
Size of contactor product extension • function module for communication • function module for rated value of the current • function specified for several functions and the current • function specified functions for power loss depending on pole • without load current share typical • function of power loss depending on pole • of nain circuit with degree of pollution 3 rated value • of nain circuit with degree of pollution 3 rated value • of nain circuit rated value • of nain circuit rated value • of nain circuit rated value • of auxiliary circuit rated value • of orditactor with sine pulse • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor wit		
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• of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical velegate reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Weight volume out of the contactor with added auxiliary switch block typical installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum available of the contactor with added auxiliary to IEC 60068-2-30 maximum 400 000 7.3g / 5 ms, 4.7g / 10 ms 11,4g / 5 ms, 4.7g / 10 ms 10,000 000 11,4g / 5 ms, 7.3g / 10 ms 10,000 000 10,000	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse	of main circuit rated value	6 kV
coil and main contacts according to EN 60947-1 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 (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical 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 Weight 0.321 kg 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 %	of auxiliary circuit rated value	6 kV
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shock resistance with sine pulse	shock resistance at rectangular impulse	
e at DC mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 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 Weight 0.321 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation of during storage -55 +60 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum	• at DC	7.3g / 5 ms, 4.7g / 10 ms
mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Weight 0.321 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage -25 +60 °C • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum	shock resistance with sine pulse	
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Substance Prohibitance (Date) Weight 0.321 kg Installation altitude at height above sea level maximum ambient temperature during operation during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum 10/01/2009 0.321 kg 2 000 m 1 0 °C -25 +60 °C -55 +80 °C 95 %	 of the contactor with added auxiliary switch block typical 	10 000 000
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installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum	Weight	0.321 kg
ambient temperature • during operation • during storage • during storage -25 +60 °C -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	Ambient conditions	
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● during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
Environmental footbrint		95 %
	Environmental footprint	

Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	2
number of NC contacts for main contacts	2
operational current	
• at AC-1 up to 690 V	
 — at ambient temperature 40 °C rated value 	22 A
 — at ambient temperature 60 °C rated value 	20 A
• at AC-2 at AC-3 at 400 V	
per NO contact rated value	12 A
— per NC contact rated value	9 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current	
• 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	0.8 A
— at 440 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
• at 1 current path at DC-3 at DC-5	
 — at 24 V per NC contact rated value 	20 A
 — at 24 V per NO contact rated value 	20 A
 — at 110 V per NC contact rated value 	0.075 A
 — at 110 V per NO contact rated value 	0.15 A
 — at 220 V per NC contact rated value 	0.375 A
 — at 220 V per NO contact rated value 	0.75 A
 with 2 current paths in series at DC-3 at DC-5 	
 — at 24 V per NC contact rated value 	20 A
 — at 24 V per NO contact rated value 	20 A
 at 110 V per NC contact rated value 	0.175 A
— at 110 V per NO contact rated value	0.35 A
operating power at AC-2 at AC-3	
 at 230 V per NC contact rated value 	2.2 kW
at 230 V per NO contact rated value	3 kW
at 400 V per NC contact rated value	4 kW
at 400 V per NO contact rated value	5.5 kW
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	125 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	0.5 W
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor	0.5 W
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
operating frequency	
 at AC-1 maximum 	1 000 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	110 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
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	
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 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)
UL/CSA ratings	
yielded mechanical performance [hp]	O has
• for 3 phase AC motor at 230 V rated value	2 hp
for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to III.	5 hp A600 / Q600
contact rating of auxiliary contacts according to UL Short-circuit protection	7000 / 2000
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 in required with type of assignment 2 required	gG: 20A (690 V, 100 kA)
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
Installation/ mounting/ dimensions	30. 1071
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface Yes
fastening method side-by-side mounting fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	70 mm
width	45 mm
depth	73 mm
required spacing	10 11111
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm

— downwards	0 mm
— at the side	0 mm
for grounded parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— 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)
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)
for 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
Electrical Safety	
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
Approvals Certificates	
General Product Approval	



Confirmation









EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other











Railway **Dangerous goods Environment**

Special Test Certific-

Transport Information



Environmental Confirmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

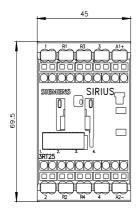
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

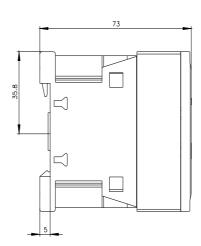
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2517-2BF40&lang=en

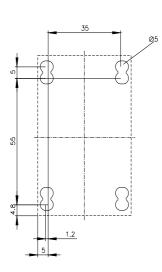
Characteristic: Tripping characteristics, I2t, Let-through current

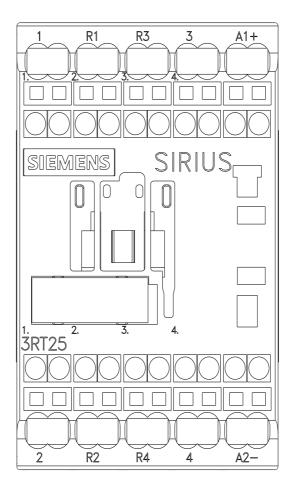
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2BF40/char

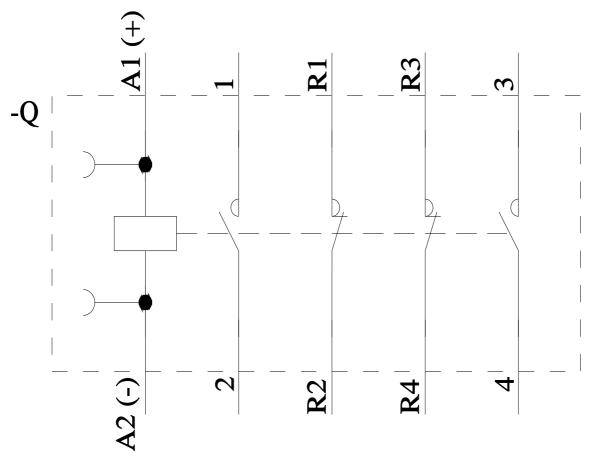
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2BF40&objecttype=14&gridview=view1











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