SIEMENS

Data sheet 3RT2535-1AL20



power contactor, AC-3, 40 A, 18.5 kW / 400 V, 4-pole, 230 V AC, 50/60 Hz, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name SIRIUS product degignation contactor product type designation 3RT25 General technical data size of contactor SZ product extension • function module for communication • SZ product extension • function module for communication No • auxiliary switch Yes insulation voltage • of main circuit with degree of poliution 3 rated value 690 V • of auxiliary circuit with degree of poliution 3 rated value 690 V • of auxiliary circuit rated value 690 V surge voltage resistance • of main circuit rated value 6 kW maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse • of or ontactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxi		OLDING
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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
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shock resistance with sine pulse at AC at	shock resistance at rectangular impulse	
at AC 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) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of uring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NC contacts for main contacts number of NC contacts for main contacts operational current	• at AC	11.8g / 5 ms, 7.4g / 10 ms
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reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 2 operational current		5 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current	 of the contactor with added auxiliary switch block typical 	10 000 000
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during storage	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current	 during operation 	-40 +70 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts 2 operational current	during storage	-55 +80 °C
maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current 2	relative humidity minimum	10 %
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		95 %
number of NO contacts for main contacts number of NC contacts for main contacts operational current	Main circuit	
number of NC contacts for main contacts 2 operational current	number of poles for main current circuit	4
operational current	number of NO contacts for main contacts	2
	number of NC contacts for main contacts	2
• at AC-1 up to 690 V	operational current	
	• at AC-1 up to 690 V	

 at ambient temperature 40 °C rated value 	60 A
 — at ambient temperature 60 °C rated value 	55 A
• at AC-2 at AC-3 at 400 V	
— per NO contact rated value	35 A
— per NC contact rated value	35 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm²
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
• at 1 current path at DC-3 at DC-5	
— at 24 V per NC contact rated value	35 A
— at 24 V per NO contact rated value	35 A
— at 110 V per NC contact rated value	1.25 A
— at 110 V per NO contact rated value	2.5 A
— at 220 V per NC contact rated value	0.5 A
— at 220 V per NO contact rated value	1 A
— at 440 V per NC contact rated value	0.045 A
— at 440 V per NO contact rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V per NC contact rated value	55 A
— at 24 V per NO contact rated value	55 A
 — at 110 V per NC contact rated value 	12.5 A
 at 110 V per NO contact rated value 	25 A
— at 220 V per NC contact rated value	2.5 A
— at 220 V per NO contact rated value	5 A
— at 440 V per NC contact rated value	0.135 A
— at 440 V per NO contact rated value	0.27 A
operating power at AC-2 at AC-3	
at 230 V per NC contact rated value	11 kW
at 230 V per NO contact rated value	11 kW
at 400 V per NC contact rated value	18.5 kW
at 400 V per NO contact rated value	18.5 kW
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	546 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	443 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	334 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	196 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	4 W
operational current per conductor	
no-load switching frequency	- 000 4#
• at AC	5 000 1/h
operating frequency	4.000.4#
at AC-1 maximum	1 200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated 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	210 VA	
● at 50 Hz	210 VA	
● at 60 Hz	188 VA	
inductive power factor with closing power of the coil	0.69	
• at 50 Hz	0.69	
● at 60 Hz	0.65	
apparent holding power of magnet coil at AC	17.2 VA	
• at 50 Hz	17.2 VA	
● at 60 Hz	16.5 VA	
inductive power factor with the holding power of the coil	0.36	
• at 50 Hz	0.36	
• at 60 Hz	0.39	
closing delay		
• at AC	10 80 ms	
opening delay		
• at AC	10 18 ms	
arcing time	10 20 ms	
control version of the switch operating mechanism	AC	
Auxiliary circuit	10	
	1	
number of NC contacts for auxiliary contacts instantaneous contact	1	
number of NO contacts for auxiliary contacts instantaneous	1	
contact		
operational current at AC-12 maximum	10 A	
operational current at AC-15		
at 230 V rated value	6 A	
● at 400 V rated value	3 A	
at 500 V rated value	2 A	
at 690 V rated value	1 A	
operational current at DC-12		
at 24 V rated value	10 A	
at 48 V rated value	6 A	
at 40 V rated value at 60 V rated value	6 A	
at 110 V rated value at 110 V rated value	3 A	
at 110 V rated value at 125 V rated value	2 A	
at 125 V rated value at 220 V rated value		
	1 A	
• at 600 V rated value	0.15 A	
operational current at DC-13	10.0	
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)	
UL/CSA ratings		
yielded mechanical performance [hp]		
• for 3-phase AC motor at 460/480 V rated value	20 hp	
contact rating of auxiliary contacts according to UL	A600 / P600	
Short-circuit protection		
design of the fuse link		
for short-circuit protection of the main circuit		
with type of coordination 1 required	gG: 125 A (690 V, 100 kA)	
with type of assignment 2 required	gG: 63A (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	
meaning position	backward by +/- 22.5° on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022	
•		

• side-by-side mounting	Yes		
height	114 mm		
width	75 mm		
depth	130 mm		
required spacing			
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	50 mm		
— at the side	10 mm		
— downwards	50 mm		
• for live parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	50 mm		
— downwards	50 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control 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			
• solid	2x (1 35 mm²), 1x (1 50 mm²)		
 solid or stranded 	2x (1 35 mm²), 1x (1 50 mm²)		
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section for main contacts	18 1		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
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		
Certificates/ approvals			
General Product Approval			





Confirmation



KC



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

othor

Railway

Dangerous Good



Confirmation

Vibration and Shock

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2535-1AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2535-1AL20

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AL20

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

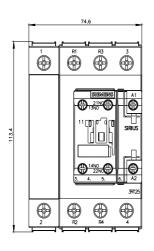
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2535-1AL20&lang=en

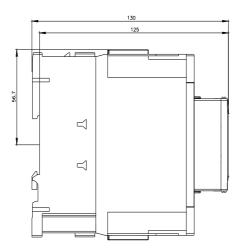
Characteristic: Tripping characteristics, I2t, Let-through current

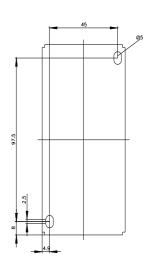
 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AL20/char}}$

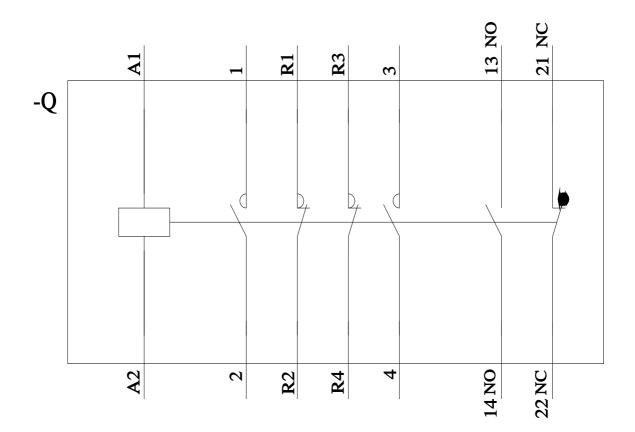
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2535-1AL20&objecttype=14&gridview=view1









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