SIEMENS

Data sheet 3RT2536-1AC20



power contactor, AC-3, 51 A, 22 kW / 400 V, 4-pole, 24 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		OIDHIO
product type designation General technical data size of contactor product extension • function module for communication • function module for communication • function module for communication • auxiliary switch insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of main circuit rated value • of auxiliary circuit rated value • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance at rectangular impulse • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse • at AC 18.5g / 5 ms, 11.6g / 10 ms shock resistance with sine pulse • at AC 10.00 000 • of contactor vipical • of the contactor vipical • of the contactor vipical • of the contactor vipical the added auxiliary switch block typical • of the contactor vibil 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 10 000 000 auxiliary switch block typical 10 000 000 of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 10 000 000 of the contactor with added auxiliary switch block typical of the contactor typical 10 000 000 of the contactor with added auxiliary switch block typical of the contactor typical 10 000 000 of the contactor with added auxiliary switch block typical of the co	product brand name	SIRIUS
Size of contactor S2 product extension • function module for communication • auxiliary switch • auxiliary switch • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxiliary switch size purpose of protective separation between coll 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 • at AC 18.5g / 5 ms, 11.6g / 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 prohibitance (Date) 1000 000 7eference code according to IEC 81346-2 Q Q Qubstance Prohibitance (Date) 1001/2014 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of No contacts for main contacts 2 number of No contacts for main contacts 2 number of No contacts for main contacts 2 operational current		
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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
shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC 18.5g / 5 ms, 11.6g / 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 aux	of auxiliary circuit rated value	6 kV
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shock resistance with sine pulse at AC at	shock resistance at rectangular impulse	
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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
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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 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	70 A
 — at ambient temperature 60 °C rated value 	60 A
• at AC-2 at AC-3 at 400 V	
— per NO contact rated value	41 A
— per NC contact rated value	41 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	60 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	15 kW
at 230 V per NO contact rated value	15 kW
at 400 V per NC contact rated value	22 kW
at 400 V per NO contact rated value	22 kW
short-time withstand current in cold operating state up to	EL IVI
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	
• at AC	5 000 1/h
operating frequency	
at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 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	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
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 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 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	25 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: 160 A (690 V, 100 kA)
with type of assignment 2 required	gG: 80 A (690 V, 100 kA)
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
mounting 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 EMC Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

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=3RT2536-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2536-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2536-1AC20

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

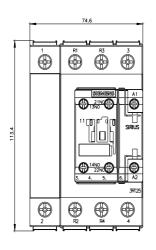
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2536-1AC20&lang=en

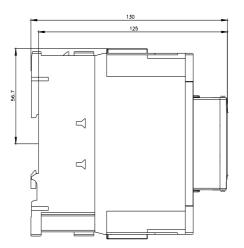
Characteristic: Tripping characteristics, I2t, Let-through current

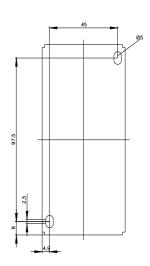
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2536-1AC20/char}$

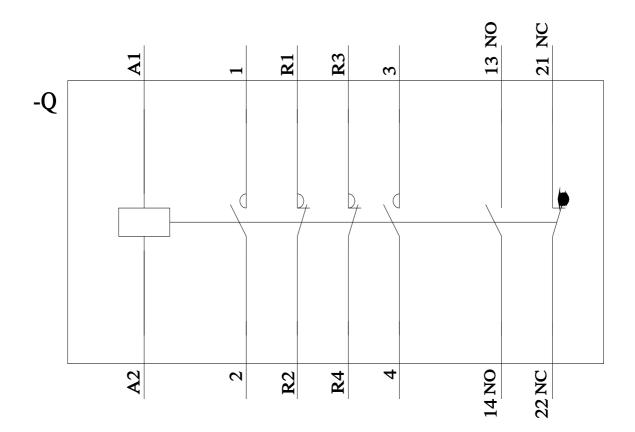
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2536-1AC20&objecttype=14&gridview=view1



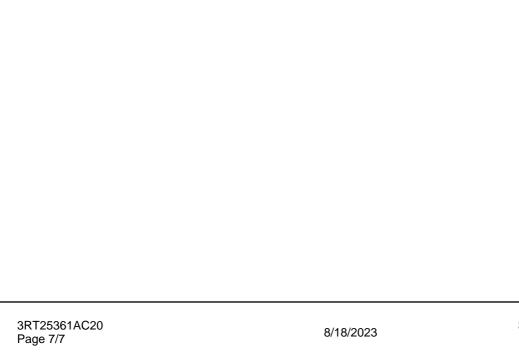






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