SIEMENS

Data sheet 3RT2536-1AP00



power contactor, AC-3, 51 A, 22 kW / 400 V, 4-pole, 230 V AC, 50 Hz, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S2
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 protective separation between coil and main contacts according to EN 60947-1	400 V
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 	10 000 000
 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)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °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
number of NC contacts for main contacts	2
operational current	
• at AC-1 up to 690 V	

40.00	70.4
— 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 mm ²
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	
40 °C	E40 A-11-a minimum anna a 11
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 operational current per conductor	4 W
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	230 V
operating range factor control supply voltage rated value of magnet coil at AC	200 V
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	190 VA
-	

a 15 D Hz Inductive power factor with closing power of the coll a 15 D Hz a 15 D Hz a 15 D Hz In VA In VA a 15 D Hz In VA		
and 50 Hz	• at 50 Hz	190 VA
apparent holding power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz to 50 Hz closing delay at AC 10 — 80 ms opening delay at AC 10 — 80 ms opening delay at Control version of the switch operating mechanism AC Autiliary circuit member of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts 1 contact number of NC contacts for auxiliary contacts 1 contact number of NC contacts for auxiliary contacts 1 contact number of NC contacts for auxiliary contacts 2 A at 1500 V rated value at 1600 V rated value at 1600 V rated value at 1500 V rated value	inductive power factor with closing power of the coil	0.72
at to 1st z at 2st 2st z at 2st z	• at 50 Hz	0.72
Inductive power factor with the holding power of the coil 10 150 Hz Closing delay 10 80 ms opening delay 11 80 ms opening delay 12 81 AC 10 80 ms ocontrot version of the switch operating mechanism AC AC AC AC AC AC AC AC AC A	apparent holding power of magnet coil at AC	16 VA
e at 30 Hz closing delay	• at 50 Hz	16 VA
closing delay at AC opening delay at AC 10 80 ms ocentrative delay and a second and and a second and a second and a second and and and a second and and and and and and a second and and and and and and and and and a	inductive power factor with the holding power of the coil	0.37
and AC opening delay at AC arcing time at AC ar	• at 50 Hz	0.37
opening delay * at AC arcing time control version of the switch operating mechanism AC Activity recreat number of NC contacts for auxiliary contacts instantaneous contact contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 **at 230 V rated value **at 400 V rated value **at 690 V rated value **at 800 V rated value **at 10 V rated value **at 10 V rated value **at 220 V rated value **at 220 V rated value **at 230 V rated value **at 240 V rated value **at 250 V rated value **at 260 V rated value **at 270 V rated value **at 280 V rated value	closing delay	
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number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-15 at 300 V rated value 6 A at 400 V rated value 11 A operational current at DC-12 at 48 V rated value 11 A operational current at DC-12 at 48 V rated value 6 A at 60 V rated value 6 A at 60 V rated value 11 A operational current at DC-12 at 48 V rated value 12 A at 125 V rated value 13 A at 125 V rated value 14 A operational current at DC-13 at 125 V rated value 15 A operational current at DC-13 at 126 V rated value 16 A at 80 V rated value 17 A at 127 V rated value 18 A at 128 V rated value 19 A at 80 V rated value 10 A at 80 V rated value 11 A at 80 V rated value 12 A at 80 V rated value 13 A at 80 V rated value 14 B at 80 V rated value 15 A at 80 V rated value 16 A at 80 V rated value 17 A at 80 V rated value 18 A at 80 V rated value 19 A at 80 V rated value 10 A at 80		AC
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operational current at AC-15 • at 230 V rated value	contact	
• at 230 V rated value • at 450 V rated value • at 450 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 125 V rated value •	·	10 A
• at 400 V rated value	•	
• at 500 V rated value		
• at 690 V rated value 1 A		
a 124 V rated value		
a 124 V rated value a 149 V rated value 6 A a 160 V rated value 3 A a 125 V rated value 3 A a 125 V rated value 2 A a 120 V rated value 3 A a 125 V rated value 3 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A		1 A
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■ at 60 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 800 V rated value ■ at 48 V rated value ■ at 48 V rated value ■ at 48 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 125 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 125 V rated value ■ at 600 V rated va		
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yielded mechanical performance [hp]		
yielded mechanical performance [hp]	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
yielded mechanical performance [hp]		
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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 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	• for 3-phase AC motor at 460/480 V rated value	25 hp
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• for short-circuit protection of the main circuit — with type of coordination 1 required	Short-circuit protection	
 — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions — with type of assignment 2 required — wit	design of the fuse link	
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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 Yes height 114 mm width 75 mm depth 130 mm required spacing	Installation/ mounting/ dimensions	
● side-by-side mounting Peight 114 mm width 75 mm depth 130 mm required spacing	mounting position	
height 114 mm width 75 mm depth 130 mm required spacing	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
width 75 mm depth 130 mm required spacing	side-by-side mounting	Yes
depth 130 mm required spacing	height	114 mm
required spacing	width	75 mm
	depth	130 mm
with side-by-side mounting		
	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





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good



<u>Confirmation</u> <u>Vibration and Shock</u> <u>Transport Information</u>

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=3RT2536-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2536-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2536-1AP00

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

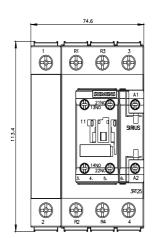
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2536-1AP00&lang=en

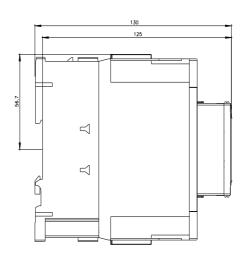
Characteristic: Tripping characteristics, I2t, Let-through current

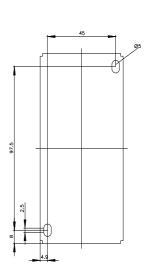
https://support.industry.siemens.com/cs/ww/en/ps/3RT2536-1AP00/char

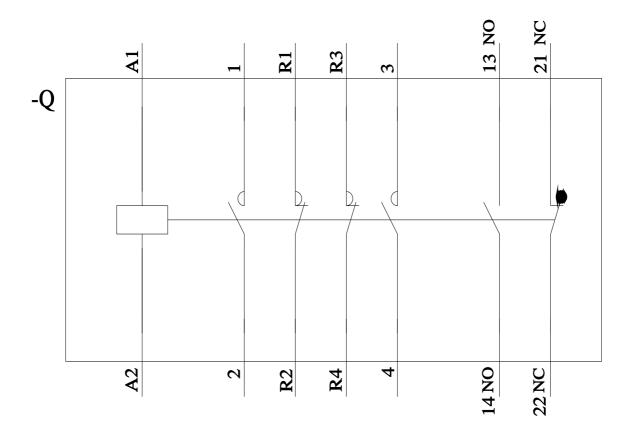
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2536-1AP00&objecttype=14&gridview=view1









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