SIEMENS

Data sheet 3RT2544-1AF00



power contactor, AC-3, 65 A, 30 kW / 400 V, 4-pole, 110 V AC, 50 Hz, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

product designation 981725 General technical data Size of contactor S product extension	product brand name	SIRIUS
Size of contactor S3 product extension - function module for communication - auxillary switch - at AC in hot operating state per pole - of main circuit rated value - of auxillary circuit rated value - of ontactor with added auxillary switch block typical - of ontactor typical - of the contactor with added auxillary switch block typical - of ontactor typical - of the contactor with added auxillary switch block typical - of the contactor with added auxillary switch bl	product designation	contactor
Size of contactor Product extension Function module for communication Function module Function module modul	product type designation	3RT25
#unction module for communication * function module for communication * auxiliary switch power loss [W] for rated value of the current * at AC in hot operating state per pole * without load current share typical * of main circuit with degree of pollution 3 rated value * of main circuit with degree of pollution 3 rated value * of auxiliary circuit with degree of pollution 3 rated value * of auxiliary circuit rated value * of contactor with added electronically optimized * of contactor with added electronically optimized * 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 with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary swi	General technical data	
function module for communication Yes	size of contactor	S3
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without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit twith degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of xev maximum permissible voltage for protective separation between coil and main coniacts according to EN 60947-1 shock resistance at rectangular impulse ot AC of 7 g / 5 ms, 4.0 g / 10 ms shock resistance with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block 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 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 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	power loss [W] for rated value of the current	
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insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • 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 AC shock resistance with sine pulse • at AC shock resistance with sine pulse • at AC shock resistance with sine pulse • of contactor tylical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) weight 2 000 m ambient conditios 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 and in a condition and in the condition an	 without load current share typical 	7.3 W
of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot at AC of contactor string the string system of contactor with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical	type of calculation of power loss depending on pole	quadratic
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of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value amaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC 6.7 g / 5 ms, 4.0 g / 10 ms shock resistance with sine pulse at AC 10.6 g / 5 ms, 6.3 g / 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 typi	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
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	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC 10.6 g / 5 ms, 4.0 g / 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 • 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 with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electr	of main circuit rated value	8 kV
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at AC block resistance with sine pulse at AC at		690 V
shock resistance with sine pulse	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 switc	• at AC	6.7 g / 5 ms, 4.0 g / 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) 09/01/2017 Weight 2.023 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -55 +60 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum	shock resistance with sine pulse	
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) 09/01/2017 Weight 2.023 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature oduring operation -25 +60 °C oduring storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum	• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
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 Substance Prohibitance (Date) 09/01/2017 Weight 2.023 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature oduring operation oduring storage -25 +60 °C oduring storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum so 000 000 10 000 000 20 000 10 000 000 10 000 000 10 000 00	mechanical service life (operating cycles)	
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reference code according to IEC 81346-2 Substance Prohibitance (Date) Weight 2.023 kg Ambient conditions 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 Ogynomic Prohibitance (Date) 09/01/2017 2.023 kg 2.000 m 3.000 m		5 000 000
Substance Prohibitance (Date) 09/01/2017 Weight 2.023 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	 of the contactor with added auxiliary switch block typical 	10 000 000
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Ambient conditions 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 2 000 m -25 +60 °C -25 +80 °C 10 % 95 %	Substance Prohibitance (Date)	09/01/2017
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 2 000 m -25 +60 °C -25 +80 °C 10 % 95 %	Weight	2.023 kg
ambient temperature • during operation • during storage -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 %	Ambient conditions	
 during operation during storage -25 +60 °C relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % 	installation altitude at height above sea level maximum	2 000 m
● 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 95 % 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 %
Main circuit		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			
— at ambient temperature 40 °C rated value	100 A		
— at ambient temperature 60 °C rated value	90 A		
• at AC-2 at AC-3 at 400 V			
— per NO contact rated value	65 A		
— per NC contact rated value	65 A		
minimum cross-section in main circuit at maximum AC-1 rated	35 mm²		
value			
operational current			
• at 1 current path at DC-1			
— at 24 V rated value	100 A		
— at 110 V rated value	9 A		
— at 220 V rated value	2 A		
— at 440 V rated value	0.6 A		
— at 600 V rated value	0.4 A		
with 2 current paths in series at DC-1			
— at 24 V rated value	100 A		
— at 110 V rated value	100 A		
— at 220 V rated value	10 A		
— at 440 V rated value	1.8 A		
• at 1 current path at DC-3 at DC-5			
 — at 24 V per NC contact rated value 	40 A		
 — at 24 V per NO contact rated value 	40 A		
 — at 110 V per NC contact rated value 	2.5 A		
 — at 110 V per NO contact rated value 	2.5 A		
 — at 220 V per NC contact rated value 	1 A		
 — at 220 V per NO contact rated value 	1 A		
 — at 440 V per NC contact rated value 	0.15 A		
 — at 440 V per NO contact rated value 	0.15 A		
 with 2 current paths in series at DC-3 at DC-5 			
 — at 24 V per NC contact rated value 	100 A		
 — at 24 V per NO contact rated value 	100 A		
 — at 110 V per NC contact rated value 	100 A		
 — at 110 V per NO contact rated value 	100 A		
 at 220 V per NC contact rated value 	7 A		
— at 220 V per NO contact rated value	7 A		
 at 440 V per NC contact rated value 	0.42 A		
— at 440 V per NO contact rated value	0.42 A		
operating power at AC-2 at AC-3			
 at 230 V per NC contact rated value 	18.5 kW		
• at 230 V per NO contact rated value	18.5 kW		
 at 400 V per NC contact rated value 	30 kW		
at 400 V per NO contact rated value	30 kW		
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$			
 limited to 1 s switching at zero current maximum 	880 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	880 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	691 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	437 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 60 s switching at zero current maximum	344 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	3.5 W		
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor	3.5 W		
no-load switching frequency			
• at AC	5 000 1/h		
operating frequency			
at AC-1 maximum			

Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
at 50 Hz rated value	110 V		
operating range factor control supply voltage rated value of			
magnet coil at AC			
● at 50 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC	296 VA		
● at 50 Hz	296 VA		
inductive power factor with closing power of the coil	0.61		
● at 50 Hz	0.61		
apparent holding power of magnet coil at AC	19 VA		
● at 50 Hz	19 VA		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.38		
closing delay			
• at AC	13 50 ms		
opening delay			
• at AC	11 21 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 contact	1		
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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA		
design of the fuse link			
for short-circuit protection of the main circuit			
with type of coordination 1 required	gG: 250 A (690 V, 100 kA)		
with type of assignment 2 required	gR: 250 A (690 V, 100 kA)		
Installation/ mounting/ dimensions	5 <u></u>		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
mounting position	. 7 100 Totation possible on vertical mounting sunace, can be titled forward and		

	backward by +/- 22.5° on vertical mounting surface		
fastening method side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	140 mm		
width	70 mm		
depth	152 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	10 mm		
— at the side	10 mm		
— downwards	10 mm		
for live parts	10 111111		
•	0.mm		
— forwards	0 mm		
— backwards	0 mm		
— upwards	10 mm		
— downwards	10 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 (2.5 16 mm²)		
• stranded	2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)		
 solid or stranded 	2x (2.5 16 mm²); [2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)]		
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 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	10 2		
afety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 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		
pprovals Certificates	gs. said, for totalear contact from the front		
pprovide ocitinates			













EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other Railway Dangerous goods







Confirmation

Special Test Certificate

<u>Transport Information</u>

Environment

Environmental Confirmations

Further information

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=3RT2544-1AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2544-1AF00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2544-1AF00

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

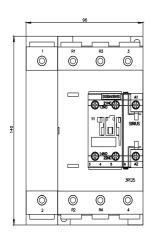
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2544-1AF00&lang=en

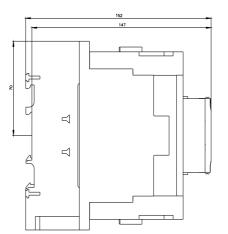
Characteristic: Tripping characteristics, I²t, Let-through current

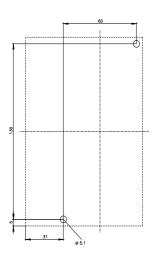
https://support.industry.siemens.com/cs/ww/en/ps/3RT2544-1AF00/char

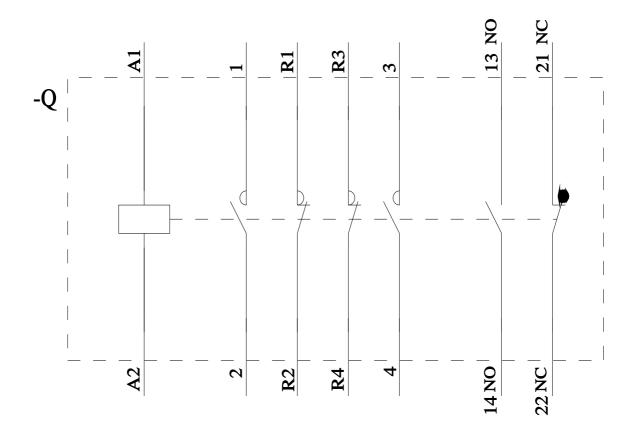
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2544-1AF00&objecttype=14&gridview=view1









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