SIEMENS

Data sheet

3RT2536-1NP30



Power contactor, AC-3 50 A, 22 kW / 400 V 2 NO + 2 NC 175-280 V AC/DC varistor, 4-pole size S2 screw terminals 1 NO + 1 NC integrated

product brand name SIRIUS product designation contractor product type designation 9RT25 General technical data size of contactor size of contactor S2 product stension No • function module for communication No • auxiliary switch Yes • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 10 V • of auxiliary survers in the pulse 7.7g / 5 ms, 4.5g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at DC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000		
product type designation 3RT25 General technical data	product brand name	SIRIUS
General technical data S2 product extension S2 product extension No • function module for communication No • auxiliary switch Yes insulation voltage 680 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of main circuit rated value 680 V • of main circuit rated value 64 V • of main contacts according to EN 60947-1 64 V shock resistance at rectangular impulse 7.7g / 5 ms, 4.5g / 10 ms • at AC 7.7g / 5 ms, 4.5g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • at AC 12g / 5 ms, 7g / 10 ms • 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 auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 2 000 m anblent conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during storage -55	product designation	contactor
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relative humidity at 55 °C according to IEC 60068-2-30 95 %	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	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	25 mm ²		
rated value	25 mm		
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	1A		
• 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	1A		
- 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	0.1 A		
-	55 A		
 — at 24 V per NC contact rated value — at 24 V per NO contact rated value 	55 A		
	12.5 A		
- at 110 V per NC contact rated value			
— 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	45 1341		
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			
Imited 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 10 s switching at zero current maximum 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	500 1/h		
• at DC	500 1/h		
operating frequency			
• at AC-1 maximum	350 1/h		
Control circuit/ Control			

type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	175 280 V
at 50 Hz rated value at 60 Hz rated value	175 280 V
	175200 V
control supply voltage at DC	475 000 1/
rated value	175 280 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	25 A
duration of inrush current peak	 10 μs
locked-rotor current mean value	0.58 A
locked-rotor current peak	1.5 A
duration of locked-rotor current	230 ms
holding current mean value	_ 10 mA
apparent pick-up power of magnet coil at AC	110 VA
• at 50 Hz	110 VA
• at 60 Hz	110 VA
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.95
• at 60 Hz	0.95
apparent holding power of magnet coil at AC	2.5 VA
● at 50 Hz	2.5 VA
• at 60 Hz	2.5 VA
inductive power factor with the holding power of the coil	0.95
● at 50 Hz	0.95
• at 60 Hz	0.95
closing power of magnet coil at DC	70 W
holding power of magnet coil at DC	1.5 W
closing delay	
• at AC	30 100 ms
• at DC	30 100 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	
residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	20 A
• at DC at 250 V maximum permissible	20 A
	2V A
Auxiliary circuit	1
number of NC contacts for auxiliary contacts instantaneous contact	1
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 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 	fuse gG: 10 A		
required			
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 standard mounting rail		
	according to DIN EN 50022		
side-by-side mounting	Yes		
height	114 mm		
width	75 mm		
depth	75 mm 130 mm		
depth required spacing			
depth required spacing • with side-by-side mounting	130 mm		
depth required spacing • with side-by-side mounting — forwards	130 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards	130 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards	130 mm 0 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	130 mm 0 mm 0 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	130 mm 0 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — upwards — upwards — upwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at the side — backwards — upwards — backwards — upwards — at the side	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — upwards — upwards — at the side — downwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — ownwards — at the side — for live parts	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — forwards — forwards — backwards — upwards — ownwards — ownwards • for live parts — forwards • for live parts — forwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — forwards — backwards — upwards — ownwards • for live parts — forwards — backwards • for live parts — backwards — backwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards • for live parts — upwards — upwards — upwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — downwards — at the side — upwards — at the side — downwards • for live parts — forwards — upwards — downwards — downwards — downwards — upwards — upwards — downwards	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 50 mm 50 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • for live parts — at the side — upwards — at the side — downwards — at the side	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm		
depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - backwards - backwards - at the side - downwards - at the side - downwards • for live parts - forwards - backwards - at the side - downwards • for live parts - forwards - at the side - downwards - at the side - downwards - at the side	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 50 mm 50 mm		
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — downwards — of or grounded parts — forwards — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards — upwards — at the side — downwards — at the side	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 50 mm 50 mm		
depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - of orwards - backwards - upwards - backwards - upwards - at the side - downwards • for live parts - forwards - backwards - upwards - at the side - downwards - backwards - upwards - backwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 50 mm 50 mm		
depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - backwards - backwards - backwards - upwards - at the side - downwards • for live parts - forwards - backwards - upwards - at the side - downwards • for live parts - forwards - upwards - a the side Ownwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50		
depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - backwards - upwards - at the side - downwards - at the side - downwards • for live parts - forwards - backwards - upwards - downwards - forwards - at the side - downwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50		
depth required spacing • with side-by-side mounting - forwards - backwards - upwards - downwards - at the side • for grounded parts - forwards - backwards - backwards - backwards - at the side - backwards - at the side - downwards • for live parts - forwards - backwards - at the side - downwards • for live parts - forwards - backwards - upwards - at the side Ownwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	130 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 50 mm 10 mm 50		

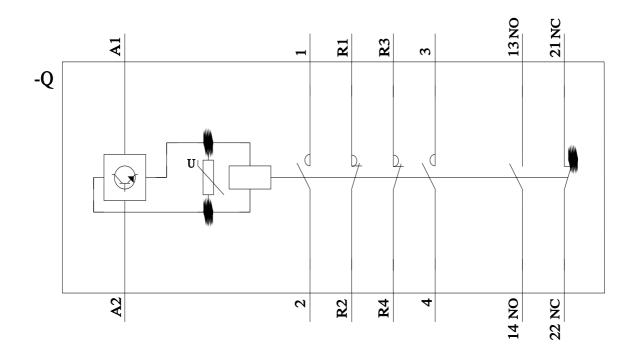
• for main contact		tions			
— solid			2x (1 35 mm²), 1x (1	50 mm²)	
— solid or stra	anded		2x (1 35 mm²), 1x (1		
	ded with core end proc		2x (1 25 mm²), 1x (1		
 at AWG cables 		-	2x (18 2), 1x (18 1)	55 mm)	
type of connectable			2x (10 2), 1x (10 1)		
 for auxiliary con 	tacts				
— solid			2x (0.5 1.5 mm²), 2x (0.	75 2.5 mm²)	
— solid or stra	anded		2x (0.5 1.5 mm²), 2x (0.		
— finely stran	ded with core end proc		2x (0.5 1.5 mm²), 2x (0.	,	
-	for auxiliary contacts	-	2x (20 16), 2x (18 14		
AWG number as code section for main conta	d connectable conduc		18 1	, 	
Safety related data					
product function					
•	ccording to IEC 60947	-4-1	Yes		
	operation according to		No		
5-1					
protection class IP o 60529	n the front according	to IEC	IP20		
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical cor	ntact from the front	
Certificates/ approvals	5				
General Product Ap	proval				
() ()					EHC
EMC	Functional Safety/Safety of Machinery	Declaration of	Conformity	Test Certificates	
	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyds Register us	PRS	RINA
Marine / Shipping	other	Railway	Dangerous Good		
	Confirmation	Vibration and Sh	ock Transport Informa-		

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