SIEMENS

Data sheet

3RT2536-1NF30



Power contactor, AC-3 50 A, 22 kW / 400 V 2 NO + 2 NC 83-155 V AC/DC varistor, 4-pole size S2 screw terminals 1 NO + 1 NC integrated

product brand name SIRIUS product brand designation contactor oproduct type designation SIRT25 General technical data size of contactor size of contactor S2 product systemsion No • dunction module for communication No • dunction module for communication No • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 680 V • of main circuit with degree of pollution 3 rated value 64V • of main circuit rated value 6 KV • of auxiliary circuit rated value 7.7g / 5 ms, 4.5g / 10 ms • at AC 7.7g / 5 ms, 4.5g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • at DC 10 000 000 • at AC 12g / 5 ms, 7g / 10 ms • at DC 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of th		
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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
type of voltage of the control supply voltage	
control supply voltage at AC	00 45514
• at 50 Hz rated value	83 155 V
at 60 Hz rated value	83 155 V
control supply voltage at DC	
rated value	83 155 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	12 A
duration of inrush current peak	20 µs
locked-rotor current mean value	1.3 A
locked-rotor current peak	3.1 A
duration of locked-rotor current	230 ms
holding current mean value	22 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 24 V maximum permissible	20 A
Auxiliary circuit	
	1
number of NC contacts for auxiliary contacts instantaneous contact	
number of NO contacts for auxiliary contacts	- 1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	
 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 — backwards — at the side — forwards — backwards — 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 - backwards - at the side Ownwards - 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			

	conductor cross-sec	tions					
 for main contact 	ts						
— solid		2x (1 35 mm²), 1x (1					
— solid or str			2x (1 35 mm²), 1x (1 50 mm²)				
-	 finely stranded with core end processing 			2x (1 25 mm²), 1x (1 35 mm²)			
at AWG cables for main contacts		2x (18 2), 1x (18 1)					
• for auxiliary cor	conductor cross-sec	tions					
-	nacis		2v (0 5	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— solid	andod						
— solid or str		againg	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
	nded with core end proc	essing					
	for auxiliary contacts ed connectable conduc	tor groce	18 1	16), 2x (18 14)			
section for main conta			10 1				
Safety related data							
product function							
 mirror contact a 	according to IEC 60947	-4-1	Yes				
	n operation according to	DIEC 60947-	No				
	on the front according	to IEC	IP20				
60529							
	the front according to	5 IEC 60529	finger-s	safe, for vertical con	tact from the front		
Certificates/ approval		_	_	_		_	
General Product Ap	proval						
(Specific States of the state				Ű		EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	of Confoi	rmity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA		CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping							
ABS	BUREAU VERITAS			Lloyd's Kegister us	PRS	RINA	
Marine / Shipping	other	Railway		Dangerous Good			
RMRS	Confirmation	<u>Vibration and S</u>	<u>Shock</u>	<u>Transport Informa-</u> tion			

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