SIEMENS

Data sheet

3RT2526-2BF40



Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 110 V DC, 50 Hz 4-pole size S0 Spring-type terminals 1 NO + 1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	SO
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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
● at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (switching 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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-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 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	2

operational current 40 A - at ambient temperature 40 °C rated value 40 A - at ambient temperature 40 °C rated value 40 A - at anbient temperature 40 °C rated value 20 A - per NC contact rated value 20 A - per NC contact rated value 20 A - per NC contact rated value 20 A operational current 40 A - at 24 V rated value 20 A - at 124 V rated value 45 A - at 124 V rated value 1A - at 124 V rated value 35 A - at 124 V rated value 35 A - at 24 V rated value 35 A - at 24 V rated value 35 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 24 V per NC contact rated value 20 A - at 24 V per NC contact rated value 20 A - at 24 V per NC contact rated value 20 A - at 24 V per NC contact rated value 20 A - at 24 V per NC contact rated value 20 A - at 24 V per NC contact rated value 20 A - at 24 V p	number of NC contacts for main contacts	2
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• at 400 V per NC contact rated value7.5 kW• at 400 V per NO contact rated value11 kWshort-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum16 W• operational current per conductor5 000 1/h• at AC5 000 1/h• at AC1 500 1/h• at AC1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximumDC		
• at 400 V per NO contact rated value11 kWshort-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current witch walue • limited to 60 s switching at zero current walue • limited to 60 s switching at zero current walue • limited to 60 s switching at zero current walue • limited to 60 s switching at zero current walue • limited to 60 s switching at zero current walue • limited to 60 s switching at zero current walue • limited to 60 s switchin		
short-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at AC • at AC • at AC • at AC • at AC-1 maximum1000 1/hoperating frequency • at AC-1 maximum1 000 1/hcontrol circuit/ ControlDC		
up to 40 °C• limited to 1 s switching at zero current maximum• limited to 5 s switching at zero current maximum• limited to 10 s switching at zero current maximum• limited to 10 s switching at zero current maximum• limited to 30 s switching at zero current maximum• limited to 60 s switching at zero current maximum• loo 6 /s Use minimum cross-section acc. to AC-1 rated value• at AC• at AC• at AC-1 maximum• at AC-1 maximum• at AC-1 maximum• at AC-1 maximum• at AC-1		11 KVV
• limited to 5 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 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 conductor1.6 W• at AC5 000 1/h• at AC5 000 1/h• at DC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximumDC	up to 40 °C	
• limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • lo6 A; Use minimum cross-section acc. to AC-1 rated value • 106 A; Use minimum cross-sec	-	
• limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value 106 A; Use minimum cross-section acc. to AC-1 rated valuepower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor1.6 Wno-load switching frequency • at AC • at DC5 000 1/hoperating frequency • at AC-1 maximum1 000 1/hoperating frequency • at AC-1 maximum1 000 1/htype of voltage of the control supply voltageDC	-	
• limited to 60 s switching at zero current maximum 106 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 1.6 W no-load switching frequency • • at AC 5 000 1/h • at DC 1 500 1/h operating frequency • • at AC-1 maximum 1 000 1/h Control circuit/ Control 1 000 1/h	-	
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor 1.6 W no-load switching frequency 5 000 1/h • at AC 5 000 1/h • at DC 1 500 1/h operating frequency 1 500 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control DC type of voltage of the control supply voltage DC	-	
operational current per conductor no-load switching frequency • at AC • at DC 0 perating frequency • at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage		
• at AC 5 000 1/h • at DC 1 500 1/h operating frequency 1 500 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control 1 000 1/h type of voltage of the control supply voltage DC	operational current per conductor	1.6 W
• at DC 1 500 1/h operating frequency - • at AC-1 maximum 1 000 1/h Control circuit/ Control - type of voltage of the control supply voltage DC		
operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control DC		
• at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage DC		1 500 1/h
Control circuit/ Control type of voltage of the control supply voltage DC		
type of voltage of the control supply voltage DC	• at AC-1 maximum	1 000 1/h
	Control circuit/ Control	
control supply voltage at DC	type of voltage of the control supply voltage	DC
	control supply voltage at DC	

 rated value 	110 V			
operating range factor control supply voltage rated				
value of magnet coil at DC				
initial value	0.8			
• full-scale value	1.1			
closing power of magnet coil at DC	5.9 W			
holding power of magnet coil at DC	5.9 W			
closing delay				
• at DC	50 170 ms			
opening delay				
• at DC	15 18 ms			
arcing time	10 10 ms			
Auxiliary circuit				
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	10 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 single-phase AC motor at 230 V rated value 	3 hp			
• for 3-phase AC motor at 460/480 V rated value	15 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
 — with type of coordination 1 required 	gG: 63 A (690 V, 100 kA)			
 — with type of assignment 2 required 	gG: 35 A (690 V, 50 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 standard mounting rail according to DIN EN 50022			
 side-by-side mounting 	Yes			
height	102 mm			
width	61 mm			
depth	107 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	0 mm
— at the side	6 mm
— downwards	0 mm
for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm
onnections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
 type of connectable conductor cross-sections for main contacts 	
- solid	$2x(1 - 10 \text{ mm}^2)$
— solid — solid or stranded	2x (1 10 mm²) 2x (1 10 mm²)
 — finely stranded with core end processing 	2x (1 6 mm ²)
 — finely stranded with core end processing — finely stranded without core end processing 	2x (1 6 mm ²)
at AWG cables for main contacts	2x (1 8)
type of connectable conductor cross-sections	2X (10 0)
for auxiliary contacts	
— solid	2x (0.5 2.5 mm²)
— solid or stranded	2x (0.5 2.5 mm ²)
— finely stranded with core end processing	2x (0.5 1.5 mm ²)
— finely stranded without core end processing	2x (0.5 1.5 mm ²)
at AWG cables for auxiliary contacts	2x (20 14)
AWG number as coded connectable conductor cross	18 8
section for main contacts	
afety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947- 5-1 	No
T1 value for proof test interval or service life according to IEC 61508	20 у
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
ertificates/ approvals	
General Product Approval	EMC
General Product Approval	

Functional Safety/Safety of Machinery	Declaration of Conf	ormity	Test Certificates		Marine / Shipping	
Type Examination Certificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyd's Register uts	PRS	RINA	RMRS	
other		Dangerous Good				
<u>Confirmation</u>		<u>Transport Informa-</u> tion				
Further information						
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=3RT2526-2BF40 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2BF40 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2BF40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-2BF40⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2BF40/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-2BF40&objecttype=14&gridview=view1						

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