SIEMENS

Data sheet

3RT2526-1BP40



Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 230 V DC 4-pole size S0 screw terminals 1 NO + 1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S0
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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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• 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 at zero current maximum• limited to 60 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-section acc. to AC-1 rated value • 106 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 conductor106 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC • at DC5 000 1/hoperating frequency • at AC-1 maximum5 000 1/hoperating frequency • at AC-1 maximum1 000 1/hcontrol circuit/ ControlDC	-			
• 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	-			
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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	230 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	1A			
operational current at DC-12				
at 24 V rated value	10 A			
at 24 V rated value	6 A			
at 40 V rated value at 60 V rated value	6 A			
at 50 V rated value at 110 V rated value	3 A			
at 125 V rated value	2 A			
at 125 V rated value 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 24 V rated value at 48 V rated value	2 A			
at 60 V rated value	2 A 1 A			
at 110 V rated value	1A			
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 	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	85 mm			
width	61 mm			
depth	107 mm			

required spacing					
with side-by-side mounting					
- forwards	0 mm				
— backwards					
— upwards	0 mm 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				
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 2.5 mm²), 2x (2.5 10 mm²)				
 — solid or stranded 	2x (1 2.5 mm²), 2x (2.5 10 mm²)				
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²				
 at AWG cables for main contacts 	2x (16 12), 2x (14 8)				
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)				
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)				
AWG number as coded connectable conductor cross section for main contacts	16 8				
Safety related data					
product function					
 mirror contact according to IEC 60947-4-1 	Yes				
 positively driven operation according to IEC 60947- 	No				
5-1 T1 value for proof test interval or service life according to	20 y				
IEC 61508 protection class IP on the front according to IEC	IP20				
60529					
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
Certificates/ approvals					
General Product Approval		EMC			
		-			
Confirmation		A			
Functional Safety/Safety of Declaration of Conformity	Test Certificates	Marine / Shipping			
Machinery					

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<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					other
B U REAU VERITAS		Llovd's Register uts	RINA	RMRS	<u>Confirmation</u>
other	Dangerous Good				
	Transport Informa- 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=3RT2526-1BP40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1BP40

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

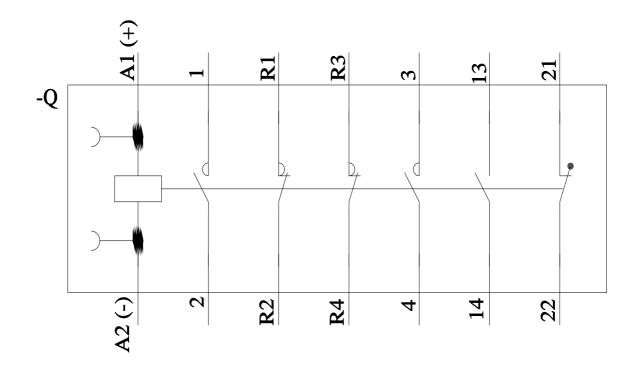
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BP40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1BP40&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BP40/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1BP40&objecttype=14&gridview=view1



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