SIEMENS

Data sheet

3RT2526-1AG20



Contactor, AC-3, 11 kW/400 V 110 V AC/50/60 Hz 4-pole, 2 NO+2 NC, Size S0 Screw terminal 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 AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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

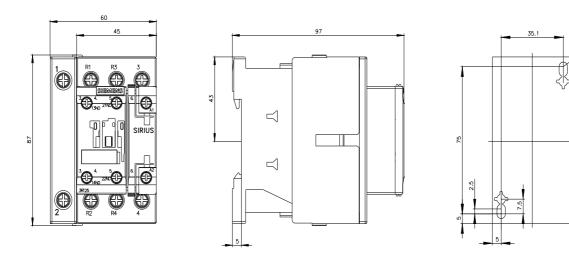
operational current 40 A	number of NC contacts for main contacts	2		
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• at 230 V per NO contact rated value5.5 kW• at 400 V per NC contact rated value11 kW• at 400 V per NO contact rated value11 kW• short-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum200 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 frequency1.6 W• at AC5 000 1/h• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum <td></td> <td></td>				
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• 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 walue of the • operating frequency • at AC • at AC • at AC • at AC-1 maximum• Control • Control• control circuit/ Control• Control • Control• AC • AC• type of voltage of the control supply voltageAC				
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 maximumlimited to 10 s switching at zero current maximumlimited to 10 s switching at zero current maximumlimited to 30 s switching at zero current maximumlimited to 30 s switching at zero current maximumlimited to 60 s switching frequencyat ACat ACat ACbion 1/hbion 1/hcontrol circuit/ Controlto 00 1/hAC				
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• loof A• at AC• at AC• at AC-1 maximum• at AC-1 maximum		11 KVV		
• limited to 5 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 service • at AC • at AC • at AC-1 maximum200 A; Use minimum cross-section acc. to AC-1 rated value • 16 W • 1000 1/h • 1000 1/h • at AC-1 maximum • at AC-1 maximum 	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 • 100 1/h• operating frequency • at AC-1 maximum • at AC-1 maximum• 100 1/h• operating frequency • at AC-1 maximum• 1000 1/h• operating fr	-			
• 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 maximumACtope of voltage of the control supply voltageAC	-			
• 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 - type of voltage of the control supply voltage AC	-			
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operational current per conductor no-load switching frequency • 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 AC type of voltage of the control supply voltage AC				
• 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 AC	operational current per conductor	1.6 W		
• at DC 1 500 1/h operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control K type of voltage of the control supply voltage AC				
operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control K type of voltage of the control supply voltage AC				
• at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage AC		1 500 1/h		
Control circuit/ Control type of voltage of the control supply voltage AC				
type of voltage of the control supply voltage AC	• at AC-1 maximum	1 000 1/h		
	Control circuit/ Control			
control supply voltage at AC	type of voltage of the control supply voltage	AC		
	control supply voltage at AC			

	440.14
• at 50 Hz rated value	110 V
at 60 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
• at 60 Hz	0.85 1.1
	77 VA
apparent pick-up power of magnet coil at AC • at 50 Hz	81 VA
	79 VA
• at 60 Hz	0.82
inductive power factor with closing power of the coil • at 50 Hz	0.82
• at 60 Hz	0.74
apparent holding power of magnet coil at AC • at 50 Hz	10.5 VA
	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
residual current of the electronics for control with	
signal <0>	
 at AC at 230 V maximum permissible 	0.007 A
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
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	1 A
operational current at DC-12	10 A
• 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	1A
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 	fuse gG: 10 A			
required	use yo. IV 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	85 mm			
width	61 mm			
depth	97 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			
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	$2v/(1 - 2.5 \text{ mm}^2) - 2v/(2.5 - 4.0 \text{ mm}^2)$			
— solid	$2x (1 2.5 \text{ mm}^2), 2x (2.5 10 \text{ mm}^2)$ $2x (1 2.5 \text{ mm}^2), 2x (2.5 10 \text{ mm}^2)$			
 — solid or stranded finely stranded with core and processing 	$2x (1 2.5 \text{ mm}^2), 2x (2.5 10 \text{ mm}^2)$ $2x (1 2.5 \text{ mm}^3), 2x (2.5 6 \text{ mm}^2), 1x 10 \text{ mm}^2$			
 finely stranded with core end processing at AWG cables for main contacts 	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²			
• at AWG cables for main contacts type of connectable conductor cross-sections	2x (16 12), 2x (14 8)			
for auxiliary contacts				
solid	$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 - 2.5 \text{ mm}^2)$			
— solid — solid or stranded	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)			
	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)			
 finely stranded with core end processing at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16) 2x (18 14)			
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts	2x (20 16), 2x (18 14) 16 8			
Safety related data				
product function				
mirror contact according to IEC 60947-4-1	Yes			
 minor contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 	No			
T1 value for proof test interval or service life according to IEC 61508	20 y			

protection class IP 60529	on the front according	to IEC IP2	20			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
ertificates/ approva	ls					
General Product A	pproval				EMC	
() E	<u>Confirmation</u>			EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Confe	ormity	Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyds Kegister us	RINA	RMRS	Confirmation	
other						
urther information						
<u>https://www.siemens</u> Industry Mall (Onlin	ie ordering system) siemens.com/mall/en/en/)=3RT2526-1AG20			
http://support.automa Service&Support (N	ation.siemens.com/WW/(Manuals, Certificates, C	haracteristics, FAQ		<u>26-1AG20</u>		
mage database (pr	try.siemens.com/cs/ww/e oduct images, 2D dime on.siemens.com/bilddb/ca	nsion drawings, 3D	models, device circuit	diagrams, EPLAN mad	cros,)	
https://support.indust	ping characteristics, I ² try.siemens.com/cs/ww/e		<u>?0/char</u>			

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1AG20&objecttype=14&gridview=view1



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