SIEMENS

Data sheet

3RT2326-1AN20



contactor AC-1, 40 A, 400 V / 40 °C, 4-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

d/14	
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	SO
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	9.6 W
 at AC in hot operating state per pole 	2.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control 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
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 (operating cycles)	
 of contactor typical 	10 000 000
 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	4
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	40 A

• at AC-1	40.4
 — up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
• at AC-3	
— at 400 V rated value	15.5 A
 at AC-4 at 400 V rated value 	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm ²
value	
operating power	
• at AC-3 at 400 V rated value	7.5 kW
at AC-4 at 400 V rated value	7.5 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
• at 60 Hz rated value	220 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
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• 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
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
attachable	2
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
attachable	2
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 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
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
product function short circuit protection	No
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: 20 A (690 V, 100 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (690 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
fastening method	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
-	Yes
side-by-side mounting	85 mm
height	
width	60 mm
depth	97 mm
required spacing	
···· · · · · · · ·	
• with side-by-side mounting	
— forwards	10 mm
— forwards — upwards	10 mm
 forwards upwards downwards 	10 mm 10 mm
 forwards upwards downwards at the side 	10 mm
 forwards upwards downwards at the side for grounded parts 	10 mm 10 mm 0 mm
 forwards upwards downwards at the side for grounded parts forwards 	10 mm 10 mm 0 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards 	10 mm 10 mm 0 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards 	10 mm 10 mm 0 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for wards 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for wards at wards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at wards at the side downwards for live parts downwards at wards at ward	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at wards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts for wards upwards at the side downwards for live parts forwards upwards at the side downwards at the side at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards of orwards upwards at the side downwards for live parts a forwards at the side upwards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for live parts forwards at the side upwards at the side downwards for live parts forwards at the side downwards for live parts forwards for live parts forwards at the side downwards at the side 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards for live parts downwards at the side downwards at the side downwards at the side downwards for live parts for at the side for main current circuit for auxiliary and control circuit 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 forwards upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards at the side downwards at the side downwards for live parts at the side downwards for auxiliary and control circuit at contactor for auxiliary contacts 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 2 Screw-type terminals screw-type terminals screw-type terminals
 forwards upwards downwards at the side for grounded parts for grounded parts forwards upwards at the side downwards for live parts for wards upwards at the side downwards for live parts forwards at the side downwards for authe side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 6 mm 2 Screw-type terminals screw-type terminals screw-type terminals

 solid or stranded finely stranded with 	ith core end processing		2x (1 2.5 mm ²), 2x (2.5 1 2x (1 2.5 mm ²), 2x (2.5 6	,		
	or cross-section for main	n contacts	ZX (1 2.0 mm), ZX (2.0 0	, ix io iiiii		
solid	of cross-section for man	in contacts	1 10 mm²			
solid solid or stranded			1 10 mm²			
stranded						
 finely stranded with core end processing 			1 10 mm ²			
		llemi ecutente	1 10 mm²			
	or cross-section for aux	illary contacts				
 solid or stranded finely stranded with core end processing 			0.5 2.5 mm ²			
finely stranded with core end processing			0.5 2.5 mm²			
type of connectable conductor cross-sections		S				
for auxiliary contacts						
— solid			2x (0.5 1.5 mm ²), 2x (0.75 .	2.5 mm²)		
— solid or stranded			2x (0.5 1.5 mm ²), 2x (0.75 .	2.5 mm²)		
- finely stranded with core end processing			2x (0.5 1.5 mm²), 2x (0.75 .	2.5 mm²)		
 for AWG cables f 	for auxiliary contacts		2x (20 16), 2x (18 14)			
AWG number as code section	d connectable conducto	or cross				
 for main contacts 	6		16 8			
 for auxiliary containing 	acts		20 14			
Safety related data						
product function						
 mirror contact acc 	cording to IEC 60947-4-1		Yes			
T1 value for proof test ir	nterval or service life acco	ording to IEC	20 a			
61508						
protection class IP on	the front according to I	EC 60529	IP20			
touch protection on th	ne front according to IEC	C 60529	finger-safe, for vertical contact	from the front		
Communication/ Protoc	ol					
product function bus of	communication		No			
Certificates/ approvals						
General Product Appr	roval				EMC	
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Functional Safety/Safety of Ma- chinery	Confirmation Declaration of Confor	rmity	Test Certificates	EHC	RCM	
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Safety/Safety of Ma- chinery	Declaration of Confor	rmity CCC		Effic <u>Type Test Certificates/Test Report</u>	RCM	
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https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2326-1AN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-1AN20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AN20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

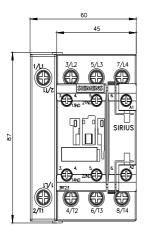
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-1AN20&lang=en

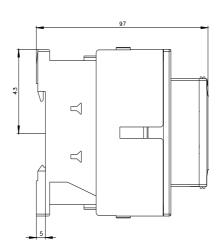
Characteristic: Tripping characteristics, I²t, Let-through current

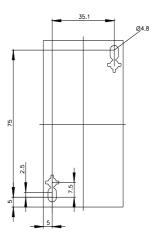
https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AN20/char

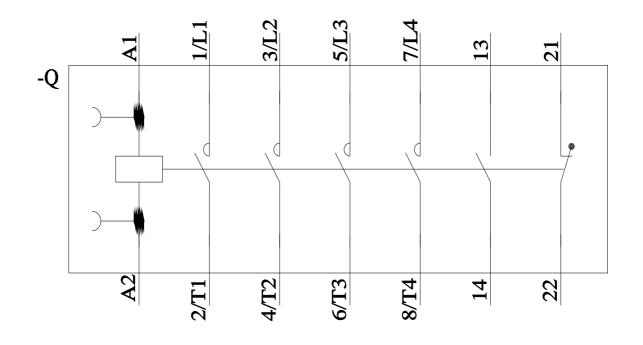
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1AN20&objecttype=14&gridview=view1









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