SIEMENS

Data sheet 3RT2326-2AL20

	contactor AC-1, 40 A, 400 V / 40 °C, 4-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0		
product brand name	SIRIUS		
product designation	Contactor		
product type designation	3RT23		
General technical data			
size of contactor	S0		
product extension			
function module for communication	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current	103		
at AC in hot operating state	9.6 W		
at AC in hot operating state at AC in hot operating state per pole	2.4 W		
insulation voltage	2.4 VV		
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	95 %		
maximum			
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 up to 690 V at ambient temperature 40 °C rated value 	40 A		
— up to 690 V at ambient temperature 60 °C rated value	35 A		
• 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 value	10 mm²		
operating power			
 at AC-3 at 400 V rated value 	7.5 kW		

• at AC-4 at 400 V rated value	7.5 kW
	1.0 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
Ilmited to 10 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
Iimited 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
	Ose minimum cross-section acc. to AC-1 rated value
no-load switching frequency	5 000 1/h
• 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	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
	0.8 1.1
• at 50 Hz	
• 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 at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	40.4
• 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		
	backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	102 mm		
width	60 mm		
depth	97 mm		
required spacing			
with side-by-side mounting			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
for grounded parts			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
• for live parts			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	spring-loaded terminals		
for auxiliary and control circuit	spring-loaded terminals spring-loaded terminals		
•	· ·		
at contactor for auxiliary contacts of magnet soil	Spring-type terminals		
of magnet coil tupo of connectable conductor cross sections for main contacts.	Spring-type terminals		
type of connectable conductor cross-sections for main contacts	2v /4 40 mm²)		
• solid	2x (1 10 mm²)		
solid or stranded	2x (1 10 mm²)		
finely stranded with core end processing	2x (1 6 mm²)		
finely stranded without core end processing	2x (1 6 mm²)		
connectable conductor cross-section for main contacts			
• solid	1 10 mm²		
solid or stranded	1 10 mm²		
• stranded	1 10 mm²		
 finely stranded with core end processing 	1 6 mm²		
finely stranded without core end processing	1 6 mm²		
connectable conductor cross-section for auxiliary contacts			
	0.5 2.5 mm ²		

 finely stranded with core end processing 	0.5 1.5 mm²		
 finely stranded without core end processing 	0.5 2.5 mm²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid	2x (0.5 2.5 mm²)		
 solid or stranded 	2x (0.5 2.5 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm²)		
 finely stranded without core end processing 	2x (0.5 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 14)		
AWG number as coded connectable conductor cross section			
 for main contacts 	18 8		
 for auxiliary contacts 	20 14		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
T1 value for proof test interval or service life according to IEC 61508	20 a		
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		
Communication/ Protocol			
product function bus communication	No		
Certificates/ approvals			
General Product Approval		EMC	



Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping













other

Railway

Environment

Confirmation



Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

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=3RT2326-2AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-2AL20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-2AL20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2

Characteristic: Tripping characteristics, I2t, Let-through current

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

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-2AL20&objecttype=14&gridview=view1

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