SIEMENS

Data sheet 3RT2326-1AP60

4NO CONTACTOR, AC1: 40A AC 220V 50HZ, 240V 60HZ 4-POLE, 4NO, SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.



product brand name	SIRIUS		
Product designation	3RT2 contactor		
General technical data:			

General technical data:			
Size of contactor	S0		
Product expansion			
 function module for communication 	No		
Auxiliary switch	Yes		
Insulation voltage			
• rated value	690 V		
Surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
 between coil and main contacts acc. to EN 	400 V		
60947-1			
Protection class IP			
• on the front	IP20		
of the terminal	IP20		
Degree of pollution	3		
Shock resistance			
at rectangular impulse			

— at AC	8,3g / 5 ms, 5,3g / 10 ms
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 electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
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
Main circuit:	
Number of NO contacts for main contacts	4
Number of NC contacts for main contacts	0
Operating voltage	
 at AC-3 rated value maximum 	690 V
Operating 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
— at ambient temperature 60 °C rated value	35 A
• at AC-2 at 400 V rated value	17 A
• at AC-3	
— at 400 V rated value	15.5 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	10 mm²
at 40 °C minimum permissible	10 mm²
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A

- at 220 V rated value

- at 440 V rated value

- at 24 V rated value

- at 110 V rated value

• with 2 current paths in series at DC-1

1 A

0.4 A

35 A

35 A

— at 220 V rated value	1 A
— at 440 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 24 V rated value	35 A
— at 440 V rated value	0.27 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 24 V rated value	35 A
— at 440 V rated value	0.6 A
Operating power	
• at AC-1	
— at 230 V rated value	23 kW
— at 230 V at 60 °C rated value	13 kW
— at 400 V rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
at AC-2 at 400 V rated value	9 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
Thermal short-time current limited to 10 s	200 A
Power loss [W] at AC-3 at 400 V for rated value of	1.6 W
the operating current per conductor	
No-load switching frequency	5 000 4/5
• at AC	5 000 1/h
Operating frequency	1 000 1/b
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h

at AC-4 maximum	250 1/h

Control circuit/ Control:	
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	240 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 V·A
● at 60 Hz	79 V·A
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 V·A
● at 60 Hz	8.5 V·A
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
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	1
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating current at DC-12	

Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 600 V rated value	0.1 A
• at 220 V rated value	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 60 V rated value	2 A
• at 48 V rated value	2 A
• at 24 V rated value	10 A
Operating current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A
• at 48 V rated value	6 A
• at 24 V rated value	10 A

UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	14 A
• at 600 V rated value	17 A
 yielded mechanical performance [hp] for single- phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
 Yielded mechanical performance [hp] for three- phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 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 assignment 1 required— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

+/-180° rotation possible on vertical mounting surface; can be			
tilted forward and backward by +/- 22.5° on vertical mounting			
surface			
screw and snap-on mounting onto 35 mm standard mounting rai			
according to DIN EN 50022			
Yes			
85 mm			
60 mm 97 mm			
97 mm			
0 mm			
0 mm			
0 mm			
0 mm			
6 mm			
0 mm			
0 mm			
6 mm			
screw-type terminals			
screw-type terminals			
2x (1 2,5 mm²), 2x (2,5 10 mm²)			

• at AWG conductors for main contacts

• for auxiliary contacts

- single or multi-stranded

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

2x (16 ... 12), 2x (14 ... 8)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

Safety related data:			
B10 value with high demand rate acc. to SN 31920	1 000 000		
Proportion of dangerous failures			
 with low demand rate acc. to SN 31920 	40 %		
 with high demand rate acc. to SN 31920 	73 %		
Failure rate [FIT]			
• with low demand rate acc. to SN 31920	100 FIT		
Product function			
 Mirror contact acc. to IEC 60947-4-1 	Yes		
T1 value for proof test interval or service life acc. to IEC 61508	20 y		

Certificates/approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery
		Of Machinery











Baumusterbescheini gung

Declaration of Conformity	Test Certificates		Shipping Ap	proval	
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Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge

n







other

Shipping Approval

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Bestätigungen

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Umweltbestätigung



Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT23261AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT23261AP60

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT23261AP60

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT23261AP60&lang=en









