SIEMENS

Data sheet 3RT2326-1AP60



contactor AC-1, 40 A, 400 V / 40 °C, 4-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw 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			
 at AC in hot operating state 	9.6 W		
 at AC in hot operating state per pole 	2.4 W		
type of calculation of power loss depending on pole	quadratic		
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		
Weight	0.48 kg		
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 %		
Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
global warming potential [CO2 eq] total	166 kg		
global warming potential [CO2 eq] during manufacturing	2.26 kg		

global warming notential ICO2 and during energian	164 kg
global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life	-0.152 kg
Main circuit	V. 192 1\g
number of poles for main current circuit	4
number of NO contacts for main contacts	4
type of voltage for main current circuit	AC
operational current	70
at AC-1 at 400 V at ambient temperature 40 °C rated	40 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ 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
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	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	05.4
— at 24 V rated value	35 A
— at 60 V rated value	35 A 35 A
— at 110 V rated value — at 220 V rated value	35 A
— at 440 V rated value	2.9 A
• at 1 current path at DC-3 at DC-5	2.0 A
— at 24 V rated value	20 A
— at 60 V rated value	5 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 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
operating power	
at AC-3 at 400 V rated value	7.5 kW
at AC-4 at 400 V rated value	7.5 kW
no-load switching frequency	5 000 4/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	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	0.8 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	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 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)		
JL/CSA ratings			
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA		

of the conditions about them to 000 M			
of the auxiliary circuit up to 230 V			
design of the fuse link			
for short-circuit protection of the main circuit	0.00.4 (000.1)		
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 side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	85 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	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		
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 10 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing	0.5 2.5 mm ²		
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)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross			
section			
section ● for main contacts	16 8		
	16 8 20 14		
• for main contacts			
for main contacts for auxiliary contacts			
for main contacts for auxiliary contacts Safety related data			

 positively driven operation according to IEC 60947-5-1 	No		
Electrical Safety			
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		
Approvals Certificates			
General Product Approval		EMV	













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certific-









Marine / Shipping

other

Railway

Environment





Miscellaneous

Confirmation

Special Test Certificate



Environment

Environmental Confirmations

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=3RT2326-1AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-1AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AP60

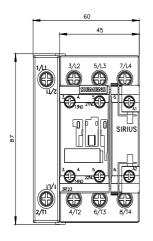
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

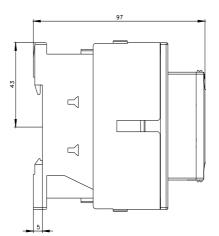
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-1AP60&lang=en

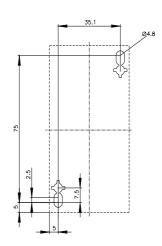
Characteristic: Tripping characteristics, I2t, Let-through current

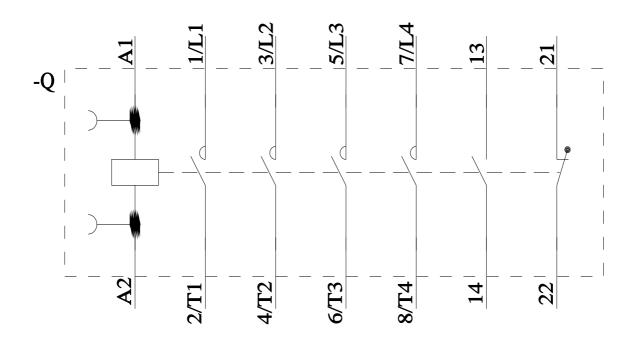
https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AP60/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1AP60&objecttype=14&gridview=view1









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