SIEMENS

Data sheet 3RT2326-2AK60



contactor AC-1, 40 A, 400 V / 40 °C, 4-pole, 110 V AC, 50 Hz / 120 V, 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	
• 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	0.553 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

Clobal Warning Potential ICCC and during a constitution	164 kg
Global Warming Potential [CO2 eq] during operation	164 kg
Global Warming Potential [CO2 eq] after end of life	-0.152 kg
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
operational current	40.4
 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	40 A
value	
— 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 value	10 mm ²
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	
• 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	110 V
at 60 Hz rated value	120 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	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	140
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	gg. 10 A (090 V, 1 kA)
	±/ 190° rotation possible on vertical mounting surface; can be tilted forward and
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
mounting position	backward by +/- 22.5° on vertical mounting surface
mounting position fastening method side-by-side mounting	backward by +/- 22.5° on vertical mounting surface Yes
mounting position fastening method side-by-side mounting fastening method	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
mounting position fastening method side-by-side mounting fastening method height	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm
mounting position fastening method side-by-side mounting fastening method height width	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm
mounting position fastening method side-by-side mounting fastening method height width depth	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm
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mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm
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mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • downwards — at the side — downwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side • at the side • at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for live parts — forwards — upwards — downwards — upwards — downwards — downwards — at the side	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — at the side — downwards — upwards — at the side Connections/ Terminals	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side — downwards • at the side — downwards — at the side — downwards — at the side — downwards — upwards — at the side Connections/ Terminals type of electrical connection	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm spring-loaded terminals spring-loaded terminals spring-loaded terminals
mounting position fastening method side-by-side mounting fastening method height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	backward by +/- 22.5° on vertical mounting surface Yes screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 60 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 5 mm 10 mm
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• 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	
 solid or stranded 	0.5 2.5 mm²
 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
 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





Confirmation







EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other









Miscellaneous

Confirmation

Railway 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=3RT2326-2AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-2AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-2AK60

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

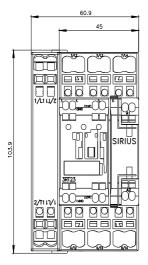
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-2AK60&lang=en

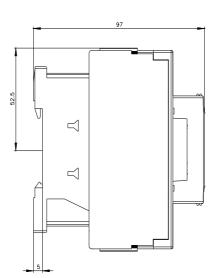
Characteristic: Tripping characteristics, I2t, Let-through current

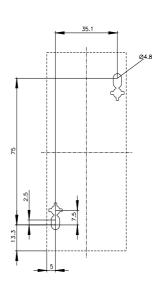
https://support.industry.siemens.com/cs/ww/en/ps/3RT232

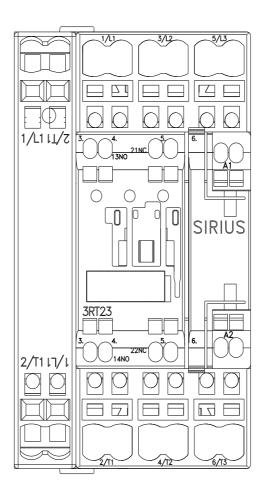
Further characteristics (e.g. electrical endurance, switching frequency)

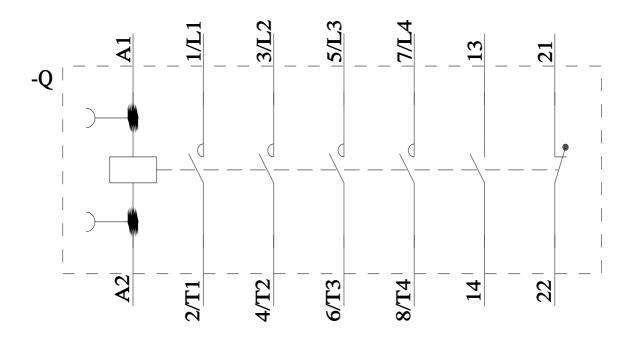
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-2AK60&objecttype=14&gridview=view1











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