## **SIEMENS**

Data sheet 3RT2326-1AK60



Contactor, AC-1, 40 A/400 V/40  $^{\circ}$ C, S0, 4-pole, 110 V AC/50 Hz, 120 V/60 Hz, 1 NO+1 NC, screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul><li>auxiliary switch</li></ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	9.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of the auxiliary and control circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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 (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul><li>during operation</li></ul>	-25 +60 °C
<ul><li>during storage</li></ul>	-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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A

• at AC-1	
— up to 690 V at ambient temperature 40 °C	40 A
rated value	1071
— up to 690 V at ambient temperature 60 °C	35 A
rated 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	10.074 10 mm²
rated value	
operating power	
• at AC-3 at 400 V rated value	7.5 kW
at AC-4 at 400 V rated value  about time with stand assurant in add an arctime at the	7.5 kW
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	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	5 000 1/b
<ul> <li>at AC</li> <li>operating frequency at AC-1 maximum</li> </ul>	5 000 1/h 1 000 1/h
Control circuit/ Control	. 000
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	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  industive newer factor with electing newer of the coil	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     instantaneous contact	2
<ul> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> </ul>	1 10 A
operational current at AC-15	107
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	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
<ul> <li>at 220 V rated value</li> </ul>	1 A
<ul> <li>at 600 V rated value</li> </ul>	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <li>at 600 V rated value</li> </ul>	0.1 A
design of the miniature circuit breaker for short-circuit	gG: 10 A (230 V, 400 A)
protection of the auxiliary switch required	
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 coordination is required  - with type of assignment 2 required	gG: 20 A (690 V, 100 kA)
for short-circuit protection of the auxiliary switch	gG: 10 A (690 V, 160 kA)
required	90. 10 A (000 V, 1 MA)
Installation/ mounting/ dimensions	
	+/-180° rotation possible on vertical mounting surface; can be tilted
mounting position	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
<b>3</b>	60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
• side-by-side modifiing	
height	85 mm
, ,	85 mm 60 mm
height	
height width	60 mm
height width depth	60 mm
height width depth required spacing	60 mm
height width depth required spacing  • with side-by-side mounting	60 mm 97 mm
height width depth required spacing  • with side-by-side mounting — forwards	60 mm 97 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards	60 mm 97 mm 10 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards	60 mm 97 mm 10 mm 10 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side	60 mm 97 mm 10 mm 10 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm
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 — torwards — at the side — at the side	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm  10 mm 6 mm
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  — downwards  — downwards  — downwards	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm  10 mm 6 mm
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 • for grounded parts — forwards — upwards — at the side — downwards • for live parts	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • to grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — downwards — upwards — at the side — downwards — at the side — downwards — at the side	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side Connections/ Terminals	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — at the side Connections/ Terminals  type of electrical connection	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm  10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 6 mm 10 mm 6 mm
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 • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals  type of electrical connection • for main current circuit	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 6 mm 10 mm
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 • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm
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 • for live parts — for wards — upwards — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 6 mm 10 mm 5 mm
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  • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection  • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm
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  • for live parts — forwards — upwards — a the side — downwards  • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 5 mm 10 mm 5 mm
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  • for live parts — forwards — upwards — at the side  Connections/ Terminals   type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 5 mm 10 mm 5 mm
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  • for live parts — forwards — upwards — at the side — downwards  • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts — solid	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals
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  • for live parts — forwards — upwards — at the side  Connections/ Terminals   type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts	60 mm 97 mm  10 mm 10 mm 10 mm 0 mm 10 mm 5 mm 10 mm 5 mm

• at AWG cables for main contacts 2x (16 ... 12), 2x (14 ... 8) connectable conductor cross-section for main contacts 1 ... 10 mm<sup>2</sup> solid solid or stranded 1 ... 10 mm<sup>2</sup> 1 ... 10 mm<sup>2</sup> stranded • finely stranded with core end processing 1 ... 10 mm<sup>2</sup> connectable conductor cross-section for auxiliary contacts solid or stranded 0.5 ... 2.5 mm<sup>2</sup> 0.5 ... 2.5 mm<sup>2</sup> • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - solid - 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) at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section • for main contacts 16 ... 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 20 y protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front 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 Certificate



Marine / Shipping













Confirmation

other

Railway



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=3RT2326-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AK60

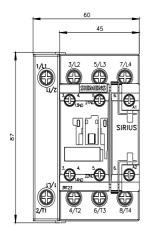
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

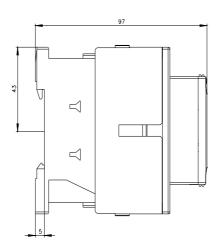
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2326-1AK60&lang=en

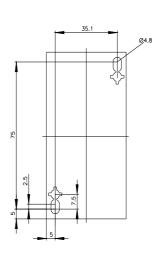
Characteristic: Tripping characteristics, I2t, Let-through current

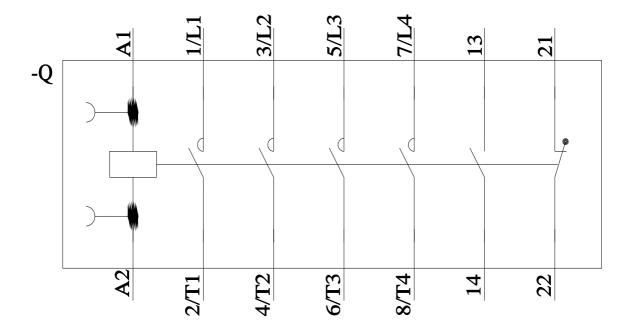
https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AK60/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1AK60&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1AK60&objecttype=14&gridview=view1</a>









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