## **SIEMENS**

Data sheet 3RT2325-2AK60



contactor AC-1, 35 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		
<ul> <li>function module for communication</li> </ul>	No	
auxiliary switch	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	7.6 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 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</li> <li>3 rated value</li> </ul>	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	7,5g / 5 ms, 4,7g / 10 ms	
shock resistance with sine pulse		
• at AC	11,8g / 5 ms, 7,4g / 10 ms	
mechanical service life (operating cycles)		
of contactor typical	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	
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 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	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	35 A
<ul> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	35 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	30 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
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
• limited to 5 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
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	0.0 44
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	GO VA
• at 50 Hz	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	7.0.1/4
• at 50 Hz	7.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	9 40 mg
• at AC	8 40 ms
opening delay	4 16 mg
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	1
number of NC contacts for auxiliary contacts	1
attachable	2
instantaneous contact  Turnbur of NO contacts for qualificative contacts.  The stantaneous contacts for a small contacts.  The stantaneous contact for a small co	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	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	1A
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	0.10 A
at 24 V rated value	10 A
at 48 V rated value	2 A
at 110 V rated value	1A
at 110 V rated value     at 125 V rated value	0.9 A
at 125 V rated value     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	gG: 10 A (230 V, 400 A)
of the auxiliary switch required	90. 10 A (200 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	
22.31 01 010 1000 1111/	
for short-circuit protection of the main circuit	
-	gG: 63 A (690 V, 100 kA)
• for short-circuit protection of the main circuit	gG: 63 A (690 V, 100 kA) gG: 20 A (690 V, 100 kA)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul>	gG: 20 A (690 V, 100 kA)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-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 DIN rail according to DIN EN 60715
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-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 DIN rail according to DIN EN 60715 Yes
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting height	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-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 DIN rail according to DIN EN 60715 Yes 102 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting  height  width	gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA)  +/-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 DIN rail according to DIN EN 60715 Yes 102 mm 60 mm
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General Froduct Approval		LIVIO
General Product Approval		EMC
Approvals Certificates	110	
product function bus communication	No	
touch protection on the front according to IEC 60529  Communication/ Protocol	finger-safe, for vertical contact from the front	
protection class IP on the front according to IEC 60529	IP20	
61508	ID20	
T1 value for proof test interval or service life according to IEC	20 a	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
product function		
Safety related data		
• for auxiliary contacts	20 14	
• for main contacts	18 8	
AWG number as coded connectable conductor cross section		
for AWG cables for auxiliary contacts	2x (20 14)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	
— solid or stranded	2x (0.5 2.5 mm²)	
— solid	2x (0.5 2.5 mm²)	
<ul> <li>for auxiliary contacts</li> </ul>		
type of connectable conductor cross-sections		
• finely stranded without core end processing	0.5 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts		
• finely stranded without core end processing	1 6 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²	
• stranded	1 10 mm²	
<ul> <li>solid or stranded</li> </ul>	1 10 mm²	
• solid	1 10 mm²	
connectable conductor cross-section for main contacts		
• finely stranded without core end processing	2x (1 6 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)	
• solid or stranded	2x (1 10 mm²)	
• solid	2x (1 10 mm²)	
type of connectable conductor cross-sections for main contacts		
of magnet coil	Spring-type terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
for main current circuit	spring-loaded terminals	





Confirmation







Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other	Railway	Environment

Household and similar appliances

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=3RT2325-2AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-2AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AK60

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

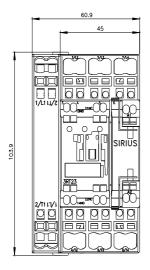
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2325-2AK60&lang=en

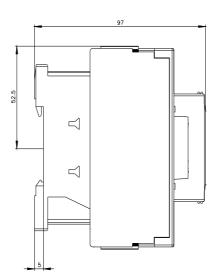
Characteristic: Tripping characteristics, I2t, Let-through current

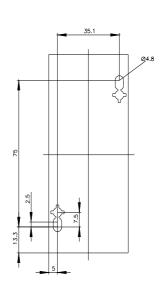
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-2AK60/char

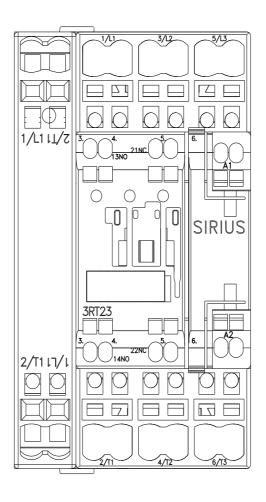
Further characteristics (e.g. electrical endurance, switching frequency)

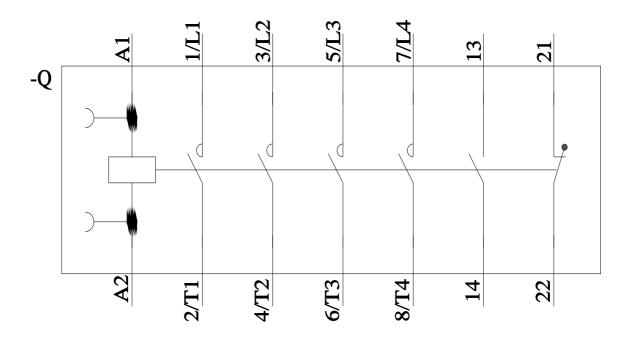
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-2AK60&objecttype=14&gridview=view1











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