# **SIEMENS**

## **Data sheet**

## 3RA2325-8XB30-1BB4



Reversing contactor assembly AC-3, 7.5 kW/400 V, 24 V DC 3-pole, Size S0 screw terminal electrical and mechanical Interlock 2 NO integrated

product type designation  product type designation  anufacturer's article number  1 of the supplied contactor 2 of the supplied contactor 3RT2025-1BB40 3RT2025-1BB40 3RT2025-1BB40 3RT2025-1BB40 3RT2025-1BB40 3RT2025-1BB40 3RA2923-2AA1  General technical data  size of contactor  product extension auxiliary switch  shock resistance at rectangular impulse  at AC  at DC  shock resistance with sine pulse  at AC  at DC  at DC  til,8g / 5 ms, 7,4g / 10 ms  shock resistance with sine pulse  at AC  at DC  til,8g / 5 ms, 7,4g / 10 ms  15g / 5 ms, 10g / 10 ms  mechanical service life (switching cycles)  of contactor typical of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  Q		
manufacturer's article number  • 1 of the supplied contactor • 2 of the supplied contactor • of the supplied RH assembly kit  General technical data  size of contactor  product extension auxiliary switch  shock resistance at rectangular impulse • at AC • at DC  shock resistance with sine pulse • at AC • at DC  shock resistance with sine pulse • at AC • of contactor typical • of contactor typical • of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  3RT2025-1BB40 3RT2025-1		
<ul> <li>1 of the supplied contactor</li> <li>2 of the supplied contactor</li> <li>3RT2025-1BB40</li> <li>3RT2025-1BB40</li> <li>3RT2025-1BB40</li> <li>3RA2923-2AA1</li> </ul> General technical data size of contactor <ul> <li>S0</li> <li>product extension auxiliary switch</li> <li>Yes</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>at DC</li> <li>10g / 5 ms, 4,7g / 10 ms</li> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>be of contactor with sine cycles)</li> <li>of contactor typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> </ul> Q		
• 2 of the supplied contactor     • of the supplied RH assembly kit  General technical data  size of contactor  product extension auxiliary switch  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  11,8g / 5 ms, 7,4g / 10 ms  15g / 5 ms, 10g / 10 ms  mechanical service life (switching cycles)  • of contactor typical  • of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  Q		
of the supplied RH assembly kit  General technical data  size of contactor  product extension auxiliary switch  shock resistance at rectangular impulse      at AC     at DC  shock resistance with sine pulse      at AC     at DC  shock resistance with sine pulse      oat AC     at DC  for any of the contactor typical      of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  SO  SO  To  To  SO  To  To  To  To  To  To  To  To  To  T		
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size of contactor  product extension auxiliary switch  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  11,8g / 5 ms, 7,4g / 10 ms  15g / 5 ms, 7,4g / 10 ms  15g / 5 ms, 10g / 10 ms  mechanical service life (switching cycles)  • of contactor typical  • of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  Q		
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shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  10g / 5 ms, 7,5g / 10 ms  shock resistance with sine pulse  • at AC  • at DC  11,8g / 5 ms, 7,4g / 10 ms  • at DC  15g / 5 ms, 10g / 10 ms  mechanical service life (switching cycles)  • of contactor typical  • of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  Q		
<ul> <li>at AC</li> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>tig/5 ms, 7,4g / 10 ms</li> <li>at DC</li> <li>tig/5 ms, 10g / 10 ms</li> <li>mechanical service life (switching cycles)</li> <li>of contactor typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> </ul> Q		
<ul> <li>at DC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>mechanical service life (switching cycles)</li> <li>of contactor typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> <li>10 00 000</li> <li>10 000 000</li> <li>Q</li> </ul>		
shock resistance with sine pulse  • at AC  • at DC  mechanical service life (switching cycles)  • of contactor typical  • of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  11,8g / 5 ms, 7,4g / 10 ms  15g / 5 ms, 10g / 10 ms  10 000 000  10 000 000  10 000 000  Q		
<ul> <li>at AC</li> <li>at DC</li> <li>11,8g / 5 ms, 7,4g / 10 ms</li> <li>15g / 5 ms, 10g / 10 ms</li> <li>of contactor typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> </ul> 11,8g / 5 ms, 7,4g / 10 ms 10 000 000 10 000 000 10 000 000 Q		
<ul> <li>at DC</li> <li>mechanical service life (switching cycles)</li> <li>of contactor typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> <li>15g / 5 ms, 10g / 10 ms</li> <li>10 000 000</li> <li>10 000 000</li> <li>Q</li> </ul>		
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of the contactor with added auxiliary switch block typical  reference code acc. to IEC 81346-2  Q		
typical Q Q		
Substance Prohibitance (Date) 01.10.2009 00:00:00		
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 poles for main current circuit 3		
number of NO contacts for main contacts 3		
number of NC contacts for main contacts 0		
operating voltage at AC-3 rated value maximum 690 V		
operational current at AC-3		
• at 400 V rated value 17 A		
operating power		
• at AC-3		
— at 400 V rated value 7.5 kW		
— at 500 V rated value 10 kW		

— at 690 V rated value	11 kW
at AC-4 at 400 V rated value	7.5 kW
operating frequency at AC-3 maximum	1 000 1/h
Control circuit/ Control	. 666
type of voltage of the control supply voltage	DC
control supply voltage 1	
at DC rated value	24 V
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
<ul> <li>per direction of rotation</li> </ul>	1
instantaneous contact	2
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	14 A
at 600 V rated value  Violded machanical performance [halfer 2 phase AC	17 A
yielded mechanical performance [hp] for 3-phase AC motor	
• 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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
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	screw and snap-on mounting onto 35 mm standard mounting rail
height	101 mm
width	90 mm 107 mm
depth required spacing	107 mm
<ul> <li>with side-by-side mounting</li> </ul>	
<ul><li>with side-by-side mounting</li><li>forwards</li></ul>	6 mm
<ul><li>with side-by-side mounting</li><li>— forwards</li><li>— backwards</li></ul>	6 mm 0 mm
— forwards	
<ul><li>forwards</li><li>backwards</li></ul>	0 mm
<ul><li>forwards</li><li>backwards</li><li>upwards</li></ul>	0 mm 6 mm
<ul><li>forwards</li><li>backwards</li><li>upwards</li><li>downwards</li></ul>	0 mm 6 mm 6 mm
<ul><li>forwards</li><li>backwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul>	0 mm 6 mm 6 mm
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> </ul>	0 mm 6 mm 6 mm 6 mm
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> </ul>	0 mm 6 mm 6 mm 6 mm 0 mm 0 mm
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type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul><li>— solid or stranded</li></ul>	2x (1 2,5 mm²), 2x (2,5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	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	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	75 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
product function bus communication	Yes
protocol is supported AS-Interface protocol	No
product function control circuit interface with IO link	No
Certificates/ approvals	



**General Product Approval** 





UK Declaration of Conformity

**Declaration of Conformity** 



Special Test Certificate

**Test Certificates** 

### Marine / Shipping













Marine / Shipping

other

Railway



Confirmation

Vibration and Shock

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2325-8XB30-1BB4$ 

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2325-8XB30-1BB4

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

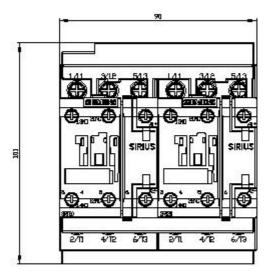
https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-1BB4

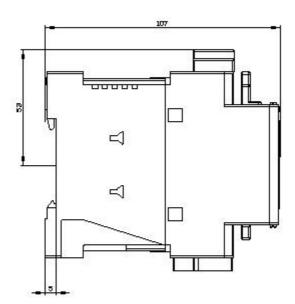
Characteristic: Tripping characteristics, I²t, Let-through current

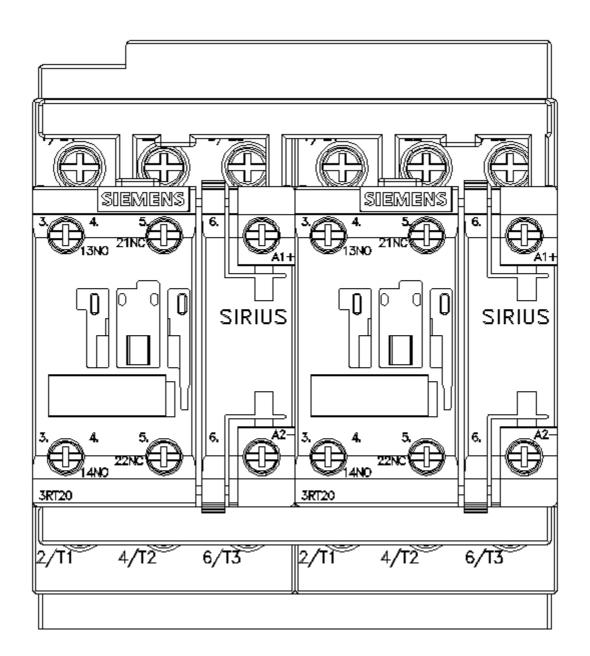
https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-1BB4/char

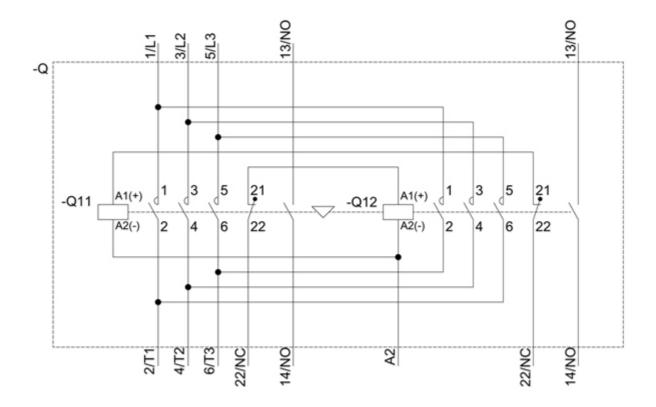
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2325-8XB30-1BB4&objecttype=14&gridview=view1









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