# **SIEMENS**

## **Data sheet**

# 3RA2347-8XB30-1NB3



Reversing contactor assembly, AC-3, 55 kW 400 V, 20-33 V AC/DC 3-pole, Size S3 screw terminal electrical and mechanical interlock 2 NO and varistor integrated

product designation	
	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
1 of the supplied contactor	3RT2047-1NB30
2 of the supplied contactor	3RT2047-1NB30
of the supplied RS assembly kit	3RA2943-2AA1
General technical data	
size of contactor	S3
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
• at DC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (switching 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)	03/01/2017
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
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	1 000 V
operational current at AC-3	
• at 400 V rated value	110 A
at 500 V rated value	110 A
	98 A
at 690 V rated value	
• at 690 V rated value  operating power	

at EOO \/ ratad value	75 L/M
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
at AC-4 at 400 V rated value	55 kW
operating frequency at AC-3 maximum	850 1/h
Control circuit/ Control	1070
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	20 20 14
• at 50 Hz	20 33 V
• at 60 Hz	20 33 V
control supply voltage 1	00 00 1/
• at DC	20 33 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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	163 VA
• at 60 Hz	163 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	3.1 VA
● at 60 Hz	3.1 VA
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	1.8 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
<ul> <li>per direction of rotation</li> </ul>	0
number of NO contacts for auxiliary contacts	
<ul> <li>per direction of rotation</li> </ul>	1
<ul> <li>instantaneous contact</li> </ul>	2
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	96 A
	96 A 99 A
• at 480 V rated value	
at 480 V rated value     at 600 V rated value  yielded mechanical performance [hp] for 3-phase AC	99 A 30 hp
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downwarde	10 mm
— downwards	
— at the side	10 mm
• for grounded parts	40
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
<ul> <li>for live parts</li> </ul>	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (10 35 mm²), 1x (10 50 mm²)
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (10 1/0), 1x (10 2/0)
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	
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
T1 value for proof test interval or service life according to IEC 61508	20 y
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	Yes
protocol is supported AS-Interface protocol	No
product function control circuit interface with IO link	No
r	

Certificates/ approvals

General Product Approval Declaration of Conformity

**Test Certificates** 

Confirmation









Type Test Certificates/Test Report

## Marine / Shipping













 Other
 Dangerous Good

 Confirmation
 Transport Information

 tion

#### **Further information**

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=3RA2347-8XB30-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2347-8XB30-1NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2347-8XB30-1NB3

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2347-8XB30-1NB3&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2347-8XB30-1NB3/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2347-8XB30-1NB3&objecttype=14&gridview=view1

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