# **SIEMENS**

Data sheet 3RF3405-1BB04



Solid-state contactor 3-phase 3RF3 AC 53 / 5.2 A / 40  $^{\circ}$ C 48-480 V / 24 V DC 2-phase controlled Instantaneous switching screw terminal

product brand name product designation design of the product product type designation manufacturer's article number

- \_1 of the accessories that can be ordered
- \_2 of the accessories that can be ordered

#### product designation

- \_1 of the accessories that can be ordered
- 2 of the accessories that can be ordered

**SIRIUS** 

solid-state contactor two-phase controlled

3RF34

3RA2921-1BA00

3RF3900-0QA88

Link module

Connection adapter

#### General technical data

## product function

## power loss [W] for rated value of the current

- at AC in hot operating state
- at AC in hot operating state per pole
- without load current share typical

## insulation voltage rated value

type of voltage of the control supply voltage surge voltage resistance of main circuit rated value

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6

certificate of suitability

reference code according to IEC 81346-2

**Substance Prohibitance (Date)** 

instantaneous switching

10 W

3.33 W

0.4 W

600 V

DC

6 kV

15g / 11 ms

2g

CE / UL / CSA / CCC / C-Tick (RCM)

Q

05/28/2009

#### Main circuit

number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts

operating voltage at AC

- at 50 Hz rated value
- at 60 Hz rated value

operating frequency rated value

relative symmetrical tolerance of the operating

operating range relative to the operating voltage at AC

- at 50 Hz
- at 60 Hz

#### operational current

- at AC-3 at 400 V rated value
- at AC-53a at 400 V at ambient temperature 40 °C rated value

operational current minimum

3

2

48 ... 480 V

48 ... 480 V

50 ... 60 Hz

10 %

40 ... 506 V 40 ... 506 V

5.2 A

5.2 A

100 mA

operating power	
at AC-3 at 400 V rated value	2.2 kW
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µs
blocking voltage at the thyristor for main contacts maximum permissible	1 200 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	200 A
I2t value maximum	200 A²·s
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage 1	
at DC rated value	24 V
control supply voltage	
<ul> <li>at DC initial value for signal &lt;1&gt; detection</li> </ul>	15 V
<ul> <li>at DC full-scale value for signal&lt;0&gt; recognition</li> </ul>	5 V
symmetrical line frequency tolerance	5 Hz
operating range factor control supply voltage rated value at DC	
• initial value	0.63
full-scale value	1.25
control current at minimum control supply voltage	
• at DC	2 mA
control current at DC rated value	15 mA
ON-delay time	1 ms
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	screw and snap-on mounting onto 35 mm DIN rail
side-by-side mounting  design of the thread of the agreem for accoming the	Yes
design of the thread of the screw for securing the equipment	M4
height width	95 mm 45 mm
depth	100.8 mm
required spacing with side-by-side mounting	100.0 111111
upwards	70 mm
downwards	50 mm
Connections/ Terminals	VV 11111
product component removable terminal for auxiliary	Yes
and control circuit	100
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts	2x (14 10)
connectable conductor cross-section for main contacts	45.0.2
solid or stranded	1.5 6 mm <sup>2</sup>
finely stranded with core end processing	1 10 mm²
type of connectable conductor cross-sections	
for auxiliary and control contacts	4v (0.5
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

AWG number as coded connectable conductor cross section for main contacts	14 10
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	
	18 22 lbf·in
for main contacts with screw-type terminals	
for auxiliary and control contacts with screw-type	7.5 5.3 lbf·in
terminals	
design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
stripped length of the cable	
• for main contacts	7 mm
for auxiliary and control contacts	7 mm
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	3.4 A
yielded mechanical performance [hp] for 3-phase AC	
motor	
	0.5 hp
• at 200/208 V rated value	0.5 hp
at 220/230 V rated value	0.75 hp
at 460/480 V rated value	2 hp
Safety related data	
proportion of dangerous failures with high demand rate	50 %
according to SN 31920	30 /0
	76 v
MTTF with high demand rate	76 y
T1 value for proof test interval or service life according to	20 y
IEC 61508	
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
Ambient conditions	
	1 000 m
installation altitude at height above sea level maximum	1 000 m
installation altitude at height above sea level maximum ambient temperature	
installation altitude at height above sea level maximum ambient temperature  • during operation	-25 +60 °C
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installation altitude at height above sea level maximum ambient temperature	-25 +60 °C
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2
installation altitude at height above sea level maximum ambient temperature  • during operation • during storage  Electromagnetic compatibility  conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC	-25 +60 °C -55 +80 °C
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installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C  2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
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manufacturer's article number of the gG fuse

- at NH design usable
- at cylindrical design 10 x 38 mm usable
- at cylindrical design 14 x 51 mm usable

3NA3801-6 3NW6001-1 3NW6101-1

#### Certificates/ approvals

#### **General Product Approval**

**EMC** 













**Declaration of Conformity** 

**Test Certificates** 

other





Type Test Certificates/Test Report

Confirmation

#### 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=3RF3405-1BB04

Cax online generator

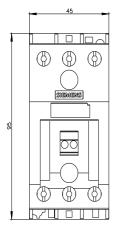
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF3405-1BB04

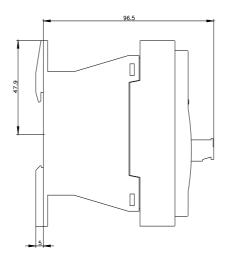
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

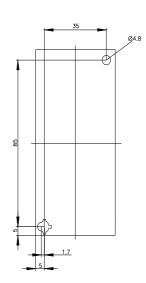
https://support.industry.siemens.com/cs/ww/en/ps/3RF3405-1BB04

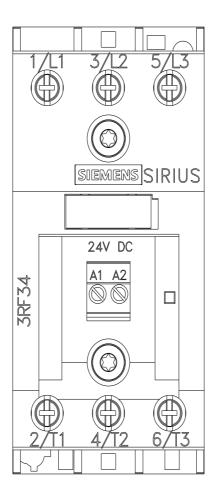
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

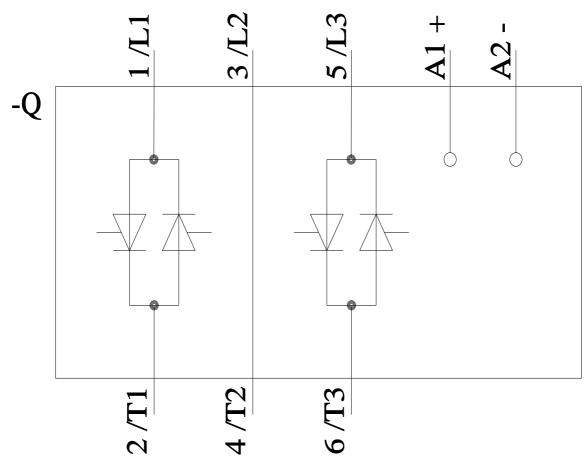
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF3405-1BB04&lang=en











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