SIEMENS

10

Data sheet

3RF3405-1BD04

Solid-state contactor 3-phase 3RF3 AC 53 / 5.4 A / 40 °C 48-480 V / 24 V

DC Reversing circuit Instantaneous switching screw terminal

product brand name	SIRIUS
product designation	solid-state reversing contactor
design of the product	two-phase controlled
product type designation	3RF34
manufacturer's article number	
 _1 of the accessories that can be ordered 	<u>3RA2921-1BA00</u>
 _2 of the accessories that can be ordered 	<u>3RF3900-0QA88</u>
product designation	
 _1 of the accessories that can be ordered 	Link module
 _2 of the accessories that can be ordered 	Connection adapter
General technical data	
product function	instantaneous switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	9 W
 at AC in hot operating state per pole 	3 W
 without load current share typical 	0.4 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	DC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
certificate of suitability	CE / UL / CSA / CCC / C-Tick (RCM)
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	2
number of NC contacts for main contacts	0
operating voltage at AC	
at 50 Hz rated value	48 480 V
• at 60 Hz rated value	48 480 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	
• at 50 Hz	40 506 V
• at 60 Hz	40 506 V
operational current	
 at AC-3 at 400 V rated value 	5.4 A
 at AC-53a at 400 V at ambient temperature 40 °C rated value operational current minimum 	5.4 A

 operating power at AC-3 at 400 V rated value 	2.2 kW
rate of voltage rise at the thyristor for main contacts	1 000 V/µs
maximum permissible	1 000 1/µ3
blocking voltage at the thyristor for main contacts	1 200 V
maximum permissible	
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	600 A
I2t value maximum	1 800 A ² ·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	Z4 V
 at DC initial value for signal <1> detection 	15 V
 at DC full-scale value for signal<0> recognition 	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	5 ms
OFF-delay time	5 ms; additionally max. one half-wave
switchover delay of reversing contactor	60 100 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0 0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	verticel
mounting position	vertical
factoning mothod	screw and snap on mounting onto 35 mm DIN rail
fastening method	screw and snap-on mounting onto 35 mm DIN rail
 side-by-side mounting 	Yes
-	
• side-by-side mounting design of the thread of the screw for securing the	Yes
• side-by-side mounting design of the thread of the screw for securing the equipment	Yes M4
 side-by-side mounting design of the thread of the screw for securing the equipment height width depth 	Yes M4 95 mm
 side-by-side mounting design of the thread of the screw for securing the equipment height width depth required spacing with side-by-side mounting 	Yes M4 95 mm 45 mm
 side-by-side mounting design of the thread of the screw for securing the equipment height width depth required spacing with side-by-side mounting upwards 	Yes M4 95 mm 45 mm 113.8 mm 70 mm
 side-by-side mounting design of the thread of the screw for securing the equipment height width depth required spacing with side-by-side mounting upwards downwards 	Yes M4 95 mm 45 mm 113.8 mm
 side-by-side mounting design of the thread of the screw for securing the equipment height width depth required spacing with side-by-side mounting upwards downwards Connections/ Terminals 	Yes M4 95 mm 45 mm 113.8 mm 70 mm 50 mm
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 side-by-side mounting design of the thread of the screw for securing the equipment height width depth required spacing with side-by-side mounting upwards downwards Connections/ Terminals product component removable terminal for auxiliary and control circuit	Yes M4 95 mm 45 mm 113.8 mm 70 mm 50 mm
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 at AWG cables for auxiliary and control contacts 	1x (AWG 20 12)			
AWG number as coded connectable conductor cross	14 10			
section for main contacts				
tightening torque	2 25 N.m			
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type 	2 2.5 N·m 0.5 0.6 N·m			
terminals	0.5 0.0 1411			
tightening torque [lbf·in]				
 for main contacts with screw-type terminals 	18 22 lbf·in			
 for auxiliary and control contacts with screw-type terminals 	7.5 5.3 lbf·in			
design of the thread of the connection screw				
 for main contacts 	M4			
 of the auxiliary and control contacts 	M3			
stripped length of the cable				
 for main contacts 	10 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	4.8 A			
yielded mechanical performance [hp] for 3-phase AC motor				
at 200/208 V rated value	1 hp			
• at 220/230 V rated value	1 hp			
• at 460/480 V rated value	3 hp			
Safety related data				
proportion of dangerous failures with high demand rate	50 %			
according to SN 31920				
MTTF with high demand rate	39 y			
T1 value for proof test interval or service life according to IEC 61508	6 у			
protection class IP on the front according to IEC	IP20			
60529				
60529 touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
60529 touch protection on the front according to IEC 60529 Ambient conditions	finger-safe, for vertical contact from the front			
touch protection on the front according to IEC 60529 Ambient conditions	finger-safe, for vertical contact from the front			
touch protection on the front according to IEC 60529				
touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum				
touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature	1 000 m			
touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	1 000 m -25 +60 °C			
touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage	1 000 m -25 +60 °C			
touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility	1 000 m -25 +60 °C			
touch protection on the front according to IEC 60529 Ambient conditions 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	1 000 m -25 +60 °C -55 +80 °C			
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touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5	1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2			
touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2 1 40 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1			
touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2			
touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11	1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2 1 kV behavior criterion 2 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment			
touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11	1 000 m -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 4 kV contact discharging / 8 kV air discharging, behavior criterion 2			
touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link	1 000 m -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 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment			
touch protection on the front according to IEC 60529 Ambient conditions 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 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number	1 000 m -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 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment Class A for industrial environment			
touch protection on the front according to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature e during operation during storage Electromagnetic compatibility conducted interference e due to burst according to IEC 61000-4-4 e due to conductor-earth surge according to IEC 61000-4-5 e due to conductor-conductor surge according to IEC 61000-4-5 e due to high-frequency radiation according to IEC 61000-4-6 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number of full range R fuse link for semiconductor protection at NH design usable	1 000 m -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 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment Class A for industrial environment 3NE1802-0			
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General Product Ap					EMC
SA CEM	CCC	<u>Confirmation</u>	(UL)	EAC	RCM
Declaration of Conf	ormity	Test Certificates	other		
CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	<u>Confirmation</u>		

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=3RF3405-1BD04

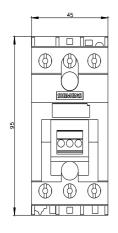
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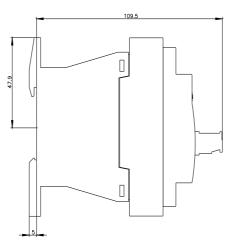
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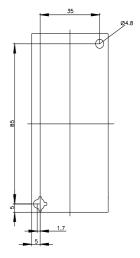
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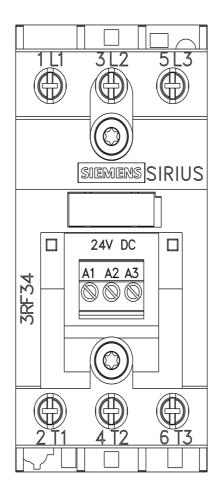
https://support.industry.siemens.com/cs/ww/en/ps/3RF3405-1BD04

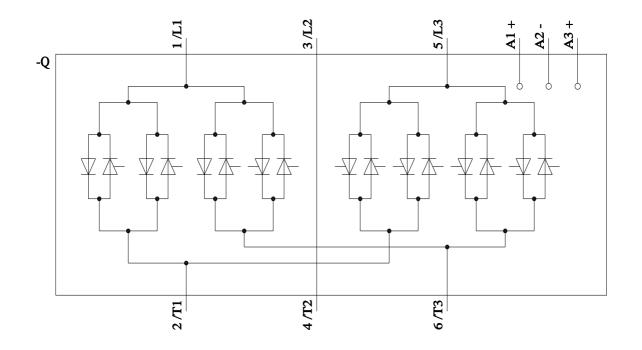
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF3405-1BD04&lang=en











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