SIEMENS

Data sheet 3RF3412-1BB24



Solid-state contactor 3-phase 3RF3 AC 53 / 12.5 A / 40 $^{\circ}\text{C}$ 48-480 V / 110-230 V AC 2-phase controlled Instantaneous switching screw terminal

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	two-phase controlled
product type designation	3RF34
manufacturer's article number	
_1 of the accessories that can be ordered	3RA2921-1BA00
_2 of the accessories that can be ordered	3RF3900-0QA88
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	22 W
• per pole	7.33 W
power loss [W] for rated value of the current without load current share typical	3.5 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	AC
surge voltage resistance of main circuit rated value	6 kV
shock resistance acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	2g
certificate of suitability	CE / UL / CSA / CCC / C-Tick (RCM)
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	28.05.2009 00:00:00
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	12.5 A

operational current minimum operating power • at AC-3 at 400 V rated value rate of voltage rise at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor derating temperature surge current resistance rated value 12 00 A 12t value maximum 7 200 A²-s Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC • at 50 Hz • at 60 Hz relative symmetrical tolerance of the control supply voltage frequency control supply voltage at AC • at 50 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition
operating power • at AC-3 at 400 V rated value rate of voltage rise at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor derating temperature surge current resistance rated value 1200 A 12 value maximum 7 200 A² s Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC • at 50 Hz • at 60 Hz relative symmetrical tolerance of the control supply voltage frequency control supply voltage at AC • at 50 Hz fequency control supply voltage at AC • at 50 Hz fequency control supply voltage at AC • at 50 Hz fequency control supply voltage at AC • at 50 Hz fequency control supply voltage at AC • at 50 Hz fequency control supply voltage at AC • at 50 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition
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• 2 rated value relative symmetrical tolerance of the control supply voltage frequency control supply voltage at AC • at 50 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition 40 V
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voltage frequency control supply voltage at AC • at 50 Hz full-scale value for signal<0> recognition • at 60 Hz full-scale value for signal<0> recognition 40 V 40 V
 at 50 Hz full-scale value for signal<0> recognition at 60 Hz full-scale value for signal<0> recognition 40 V 40 V
• at 60 Hz full-scale value for signal<0> recognition 40 V
control supply voltage
• at AC initial value for signal <1> detection 90 V
symmetrical line frequency tolerance 5 Hz
operating range factor control supply voltage rated value at AC at 50 Hz
• initial value 0.82
• full-scale value 1.1
operating range factor control supply voltage rated value at AC at 60 Hz
• initial value 0.82
• full-scale value 1.1
control current at minimum control supply voltage
• at AC 2 mA
control current at AC rated value 15 mA
ON-delay time 5 ms
OFF-delay time 30 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 standard mounting rail
• side-by-side mounting Yes
height 95 mm
width 90 mm
depth 100.8 mm
required spacing with side-by-side mounting
• upwards 70 mm
• downwards 50 mm
Connections/ Terminals
product component removable terminal for auxiliary and control circuit Yes
type of electrical connection ● for main current circuit screw-type terminals

• for auxiliary and control circuit	scrow type terminals
for auxiliary and control circuit type of connectable conductor cross sections	screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	0: (0 5 0 5 :::::2)
— solid	2x (0.5 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
at AWG cables for main contacts	2x (18 14)
connectable conductor cross-section for main	
contacts	45.0.2
solid or stranded	1.5 6 mm ²
finely stranded with core end processing	1 10 mm²
type of connectable conductor cross-sections	
 for auxiliary and control contacts 	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
 finely stranded without core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
at AWG cables for auxiliary and control contacts	1x (AWG 20 12)
AWG number as coded connectable conductor cross section for main contacts	14 10
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m
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	IVIO
for main contacts	7 mm
for auxiliary and control contacts	
• IOI auxiliary and control contacts	7 mm
UL/CSA ratings	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	7.6 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	7.6 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	7.6 A 2 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	2 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value	2 hp 2 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value	2 hp 2 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate	2 hp 2 hp 5 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920	2 hp 2 hp 5 hp
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to	2 hp 2 hp 5 hp 50 % 76 y
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529	2 hp 2 hp 5 hp 50 % 76 y 20 y
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	2 hp 2 hp 5 hp 50 % 76 y 20 y
UL/CSA ratings full-load current (FLA) for 3-phase AC motor ● at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor ● at 200/208 V rated value ● at 220/230 V rated value ● at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front
UL/CSA ratings full-load current (FLA) for 3-phase AC motor ● at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor ● at 200/208 V rated value ● at 220/230 V rated value ● at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions installation altitude at height above sea level maximum	2 hp 2 hp 5 hp 50 % 76 y 20 y
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C
UL/CSA ratings full-load current (FLA) for 3-phase AC motor ● at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor ● at 200/208 V rated value ● at 220/230 V rated value ● at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Electromagnetic compatibility conducted interference	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. 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 acc. to IEC 61000-4-4	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C
full-load current (FLA) for 3-phase AC motor	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2
full-load current (FLA) for 3-phase AC motor • at 480 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value Safety related data proportion of dangerous failures with high demand rate acc. to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. 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 acc. to IEC 61000-4-4	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C
full-load current (FLA) for 3-phase AC motor	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 1 000 m -25 +60 °C -55 +80 °C 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2
full-load current (FLA) for 3-phase AC motor	2 hp 2 hp 5 hp 50 % 76 y 20 y IP20 finger-safe, for vertical contact from the front 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

conducted HF interference emissions acc. to CISPR11	Class A for industrial environment
field-bound HF interference emission acc. to CISPR11	Class A for industrial environment
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 	<u>3NE1818-0</u>
 of full range R fuse link for semiconductor protection at cylindrical design usable 	<u>5SE1363</u>
 of back-up R fuse link for semiconductor protection at NH design usable 	<u>3NE8021-1</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	<u>3NC1032</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	<u>3NC1450</u>
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	<u>3NC2280</u>
manufacturer's article number of the gG fuse	
 at NH design usable 	<u>3NA3810-6</u>
 at cylindrical design 10 x 38 mm usable 	<u>3NW6010-1</u>
 at cylindrical design 14 x 51 mm usable 	<u>3NW6116-1</u>
 at cylindrical design 22 x 58 mm usable 	<u>3NW6210-1</u>
manufacturer's article number	
 of DIAZED fuse usable 	<u>5SB321</u>
Cartificatos/approvals	

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=3RF3412-1BB24

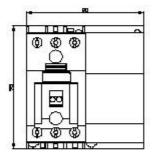
Cax online generator

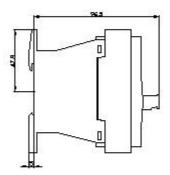
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF3412-1BB24

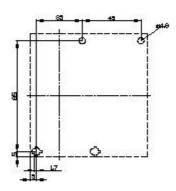
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

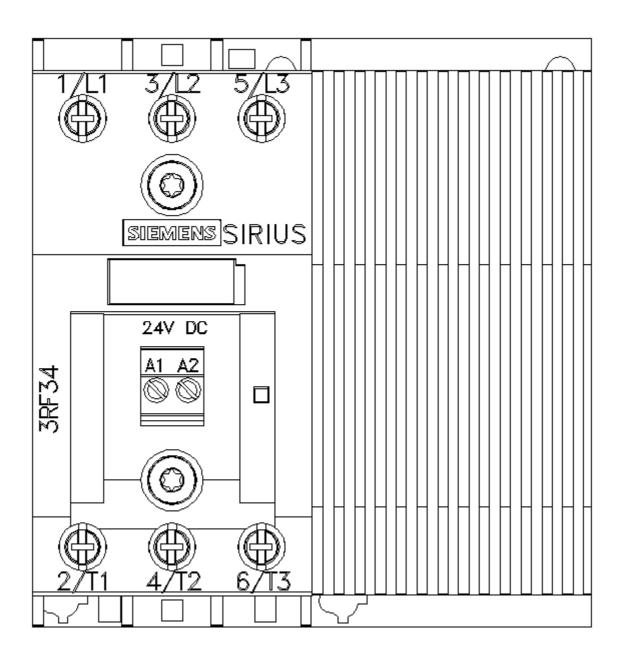
https://support.industry.siemens.com/cs/ww/en/ps/3RF3412-1BB24

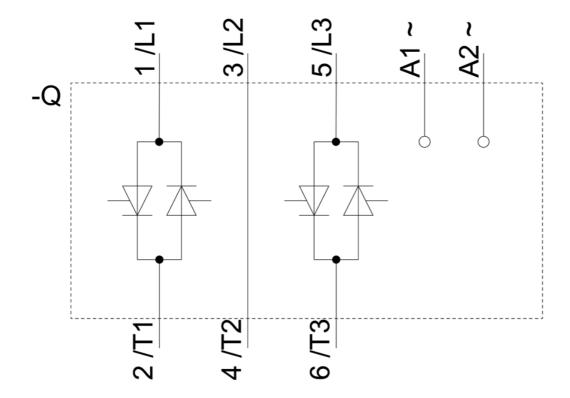
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