## **SIEMENS**

Data sheet 3RF3416-2BB06



Solid-state contactor 3-phase 3RF3 AC 53 / 16 A / 40  $^{\circ}\text{C}$  48-600 V / 24 V DC 2-phase controlled Instantaneous switching Spring-type terminal

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	two-phase controlled
product type designation	3RF34
General technical data	
certificate of suitability	CE / UL / CSA / CCC / C-Tick (RCM)
product function	instantaneous switching
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	28 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9.33 W
<ul> <li>without load current share typical</li> </ul>	0.4 W
insulation voltage rated value	600 V
type of voltage	
<ul> <li>of the operating voltage</li> </ul>	AC
<ul> <li>of the control supply voltage</li> </ul>	DC
surge voltage resistance of main circuit rated value	6 kV
protection class IP	IP20
protection class IP on the front according to IEC 60529	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.484 kg
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
type of voltage of the operating voltage	AC
operating voltage	
• at AC	
— at 50 Hz rated value	48 600 V
— at 60 Hz rated value	48 600 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	40 660 V
• at 60 Hz	40 660 V

<ul> <li>at AC-3 at 400 V rated value</li> </ul>	16 A
<ul> <li>at AC-53a at 400 V at ambient temperature 40 °C rated</li> </ul>	16 A
value	
operational current minimum	500 mA
operating power	
at AC-3 at 400 V rated value	7.5 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	1 600 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	1 150 A
I2t value maximum	6 600 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	2.7
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	1.20
• 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	
type of switching contact	normally open contact (NO)
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	
	vertical
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	vertical
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting	vertical Yes
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method design of the thread of the screw for securing the	vertical Yes screw and snap-on mounting onto 35 mm DIN rail
Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting fastening method design of the thread of the screw for securing the equipment	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4
Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting fastening method design of the thread of the screw for securing the equipment height width	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4 95 mm
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method design of the thread of the screw for securing the equipment height width depth	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm
Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting fastening method design of the thread of the screw for securing the equipment height width depth required spacing with side-by-side mounting	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm
Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method  design of the thread of the screw for securing the equipment  height  width  depth  required spacing with side-by-side mounting  • upwards	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm
Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method  design of the thread of the screw for securing the equipment  height  width  depth  required spacing with side-by-side mounting  • upwards  • downwards	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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 type of electrical connection	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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 type of electrical connection • for main current circuit	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes
Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting fastening method 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 type of electrical connection • for main current circuit • for auxiliary and control circuit	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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 type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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 type of electrical connection  • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals  2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals
Installation/ mounting/ dimensions  mounting position fastening method side-by-side mounting fastening method 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  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals  2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)
Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method  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  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections  • for main contacts  — solid  — finely stranded with core end processing  — finely stranded without core end processing	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)
Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method  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  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections  • for main contacts  — solid  — finely stranded with core end processing  — finely stranded without core end processing  • for AWG cables for main contacts	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)
Installation/ mounting/ dimensions  mounting position  fastening method side-by-side mounting  fastening method  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  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections  • for main contacts  — solid  — finely stranded with core end processing  — finely stranded without core end processing  • for AWG cables for main contacts  connectable conductor cross-section for main contacts	vertical Yes screw and snap-on mounting onto 35 mm DIN rail M4  95 mm 90 mm 100.8 mm  70 mm 50 mm  Yes  spring-loaded terminals spring-loaded terminals  2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (18 14)

<ul> <li>finely stranded without core end processing</li> </ul>	
- intoly obtained without out one one processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary and control contacts</li> </ul>	
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	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)
for AWG cables for auxiliary and control contacts	1x (AWG 20 12)
AWG number as coded connectable conductor cross section for main contacts	14 10
design of the thread of the connection screw	
of the auxiliary and control contacts	M3
stripped length of the cable	
• for main contacts	10 mm
• for auxiliary and control contacts	10 mm
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	7.6 A
at 480 V rated value     at 600 V rated value	7.6 A 9 A
at 600 V rated value  violed mechanical performance [hn] for 3-phase AC motor	VA.
yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value	2 hp
• at 220/230 V rated value	2 hp
• at 460/480 V rated value	5 hp
• at 575/600 V rated value	7.5 hp
Safety related data	
proportion of dangerous failures with high demand rate	50 %
according to SN 31920	
MTTF with high demand rate	76 a
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
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
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	05
<ul> <li>during operation</li> </ul>	-25 +60 °C
· .	FF +00 %O
during storage	-55 +80 °C
during storage  Electromagnetic compatibility	-55 +80 °C
during storage  Electromagnetic compatibility  conducted interference	
during storage  Electromagnetic compatibility  conducted interference      due to burst according to IEC 61000-4-4	2 kV / 5 kHz behavior criterion 2
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	2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2
• 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	2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 1 kV behavior criterion 2
• 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	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
• 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	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
• 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	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
• 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	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
• 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	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
• 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	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
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	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
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     of full range R fuse link for semiconductor protection at	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
• 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     • 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     • of back-up R fuse link for semiconductor protection at NH	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  3NE1817-0
• 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      • of full range R fuse link for semiconductor protection at NH design usable      • of back-up R fuse link for semiconductor protection at NH design usable      • of back-up R fuse link for semiconductor protection at	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  3NE1817-0 3NE8022-1
oduring storage  Electromagnetic compatibility  conducted interference      odue to burst according to IEC 61000-4-4      odue to conductor-earth surge according to IEC 61000-4-5      odue to conductor-conductor surge according to IEC 61000-4-5      odue 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      of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable	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  3NE1817-0 3NE8022-1 3NC1032
oduring storage  Electromagnetic compatibility  conducted interference      odue to burst according to IEC 61000-4-4      odue to conductor-earth surge according to IEC 61000-4-5      odue to conductor-conductor surge according to IEC 61000-4-5      odue 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      of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable	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  3NE1817-0 3NE8022-1 3NC1032 3NC1450
oduring storage  Electromagnetic compatibility  conducted interference      oue to burst according to IEC 61000-4-4      oue to conductor-earth surge according to IEC 61000-4-5      oue to conductor-conductor surge according to IEC 61000-4-5      oue 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      of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 12 x 58 mm usable      of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable	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  3NE1817-0 3NE8022-1 3NC1032 3NC1450

## **General Product Approval**



Confirmation









**EMV** 

**Test Certificates** 

other

**Environment** 



Type Test Certificates/Test Report

Confirmation

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RF3416-2BB06

Cax online generator

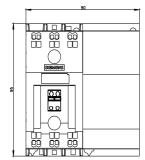
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF3416-2BB06

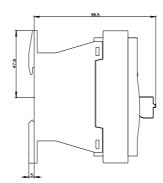
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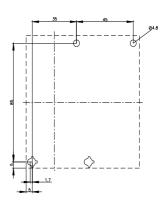
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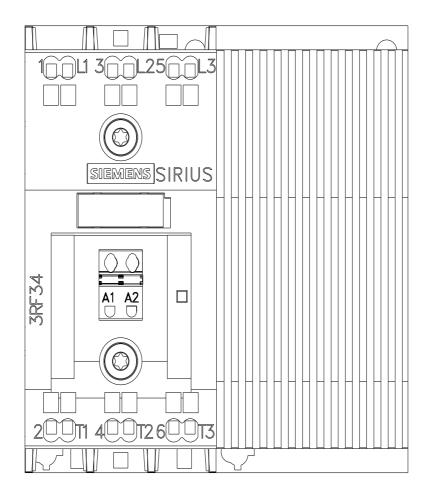
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

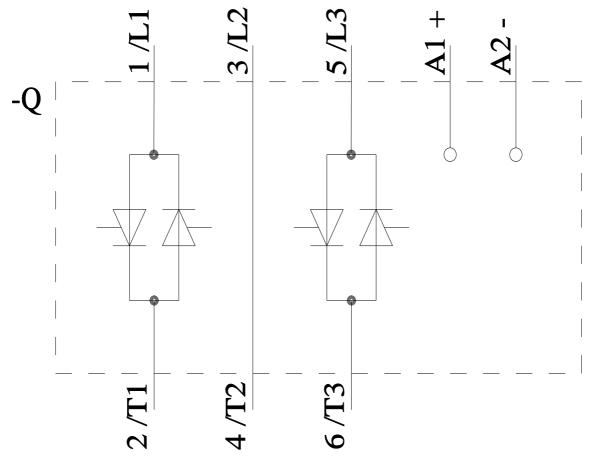
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF3416-2BB06&lang=en



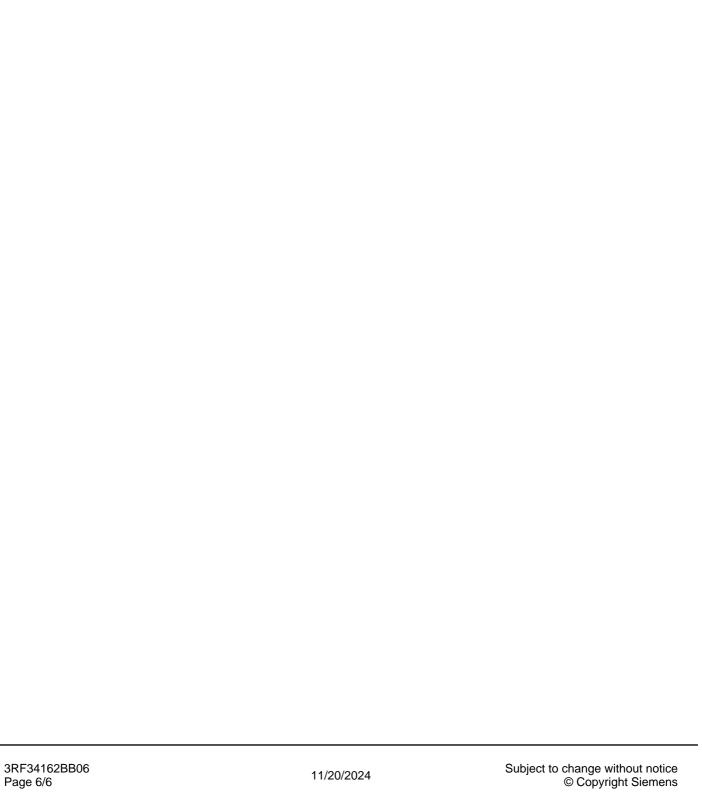








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