SIEMENS

Data sheet 3RF2230-1AC35



Semiconductor relay, 3-phase 3RF2 30 A / 40 $^{\circ}\text{C}$ 48-600 V / 110 V AC 3-phase controlled screw terminal Blocking voltage 1200 V

product designation design of the product product product type designation 3RF22 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 • without load current share re byical insulation voltage rated value (600 V 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 60068-2-27 vibration resistance according to IEC 60068-2-2 Q reference code according to IEC 68068-2-2 Q creference code according to IEC 81346-2 Q Substance Prohibitance (Date) Nain circuit number of poles for main current circuit number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz • at 60 H	product brand name	SIRIUS
design of the product product type designation 3RF22 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 60088-2-7 vibration resistance according to IEC 60088-2-7 vibration resistance according to IEC 60088-2-7 vibration resistance according to IEC 60088-2-6 2g reference code according to IEC 61088-2-7 vibration resistance (Date) Main circuit number of NO contacts for main contacts number of NO contacts for main contacts 0 operating voltage at AC at 60 Hz rated value 48 600 V at 60 Hz rated value 50 60 Hz at 60 Hz at 60 Hz operating requency rated value 30 A anapacity maximum operational current 500 mA rate of voltage rise at the thyristor for main contacts maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible locking voltage at the thyristor for main contacts maximum permissible	product designation	solid-state relay
General technical data product function zero-point switching power loss [W] for rated value of the current * at AC in hot operating state 122 W * at AC in hot operating state per pole 122 W * without load current share typical 1.8 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 according to IEC 60068-2-6 2g vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2006 Main circuit number of NO contacts for main contacts 3 number of NO contacts for main contacts 0 operating voltage at AC * at 50 Hz rated value 48 600 V * at 60 Hz rated value 48 600 V operating frequency rated value 48 600 V * at 60 Hz rated value 50 60 Hz relative symmetrical tolerance of the operating frequency operating frequency rated value 30 A * at 50 Hz 40 660 V operational current * at AC-51 rated value 30 A ampacity maximum 30 A operational current minimum 30 A operational current minimum 30 A operational current minimum 500 mA rate of voltage is at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible contacts maximum permissib	design of the product	three-phase controlled
product function zero-point switching power loss [W] for rated value of the current • at AC in hot operating state 122 W • with out load current share typical 1.8 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 according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-20 Q reference code according to IEC 61346-2 Q reference code according to IEC 81346-2 Q reference code according to IEC 81346-2 Q reference code according to IEC 81346-2 Q substance Prohibitance (Date) 07/01/2006 Main circuit number of poles for main current circuit 3 number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value 48 600 V • at 60 Hz rated value 50 60 Hz relative symmetrical tolerance of the operating frequency operating frequency rated value 50 60 Hz • at 60 Hz according to LE 508 rated value 30 A • according to LE 508 rated value 30 A • according to LE 508 rated value 30 A • according to LE 508 rated value 30 A operational current minimum 500 mA rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor for main contacts maximum permissible reverse current of the thyristor 10 mA	product type designation	3RF22
power loss [W] for rated value of the current • at AC in hot operating state 122 W • at AC in hot operating state per pole 122 W • without load current share typical 1.8 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 according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2006 Main circuit 3 number of poles for main current circuit 3 number of NC contacts for main contacts 3 number of NC contacts for main contacts 3 number of NC contacts for main contacts 48 600 V • at 50 Hz rated value 48 600 V • at 50 Hz rated value 48 600 V operating frequency rated value 48 600 V operating frequency rated value 49 660 V operating frequency rated value 40 660 V • at 50 Hz 40 660 V • at 50 Hz 40 660 V operational current 30 A ampacity maximum 30 A operational current minimum 500 mA rate of voltage rise at the thyristor for main contacts maximum permissible 500 V/µs maximum permissible 100 V proverse current of the thyristor for main contacts 100 V reverse current of the thyristor for main contacts 100 V reverse current of the thyristor 10 mA	General technical data	
■ at AC in hot operating state ■ at AC in hot operating state per pole ■ without load current share typical ■ without load current share typical Insulation voltage rated value 600 V type of voltage of the control supply voltage AC surge voltage resistance of main circuit rated value Shock resistance according to IEC 60068-2-27 ibration resistance according to IEC 60068-2-27 ivibration resistance according to IEC 60068-2-2 reference code according to EN 61346-2 Q reference code according to IEC 61346-2 Q Substance Prohibitance (Date) Main circuit number of poles for main current circuit a 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 vel at 60 Hz eat 50 Hz • at 60 Hz • at 6	product function	zero-point switching
■ 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 AC surge voltage resistance of main circuit rated value 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 60068-2-6 2g reference code according to IEC 601068-2-6 2g vibration resistance according to IEC 60068-2-6 2g vibration resistance according to IEC 60068-2-6 2g vibration resistance according to IEC 81346-2 Q reference code according to IEC 81346-2 Q vibration resistance (Date) Main circuit number of poles for main current circuit 1 number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value vibration resistance voltage at AC • at 50 Hz • at 60 Hz	power loss [W] for rated value of the current	
without load current share typical 1.8 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 according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to EN 61346-2 Q Substance Prohibitance (Date) 07/01/2006 Main circuit 1 mumber of poles for main current circuit 3 number of NO contacts for main contacts 3 number of NO contacts for main contacts 0 operating voltage at AC 48 600 V at 50 Hz rated value 48 600 V operating frequency rated value 48 600 V operating requency rated value 49 600 V other insurance of the operating frequency 10 % other insurance of the operating voltage at AC at 50 Hz rated value 40 600 V at 60 Hz 40 660 V at 60 Hz 40 600 V at 60 Hz 40 600 V operational current 40 600 V at 60 Hz 600 V at 600 V at 600 Hz 600 V at 600 V 600 V at 600 V 600 V at 600 Hz 600 V at 600 V	 at AC in hot operating state 	122 W
insulation voltage rated value type of voltage of the control supply voltage AC surge voltage resistance of main circuit rated value 6 kV shock resistance according to IEC 60068-2-7 vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g reference code according to IEC 61346-2 Q Substance Prohibitance (Date) 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 • at 50 Hz rated value • at 60 Hz rated value operating frequency rated value rolative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at AC-51 rated value • at 60 Hz • at AC-51 rated value • at AC-50 Hz • at AC-50 Hz • at AC-50 Hz • at CO-51 rated value • at AC-51 rated valu	 at AC in hot operating state per pole 	122 W
type of voltage of the control supply voltage surge voltage resistance of main circuit rated value 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 60068-2-6 2g reference code according to IEC 81346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value voperating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at AC-51 rated value • at 60 Hz • at AC-51 rated value • at AC-51 rated value • at Condition of the operating voltage at AC • at 50 Hz • at AC-51 rated value • at AC-51 rated value • at AC-51 rated value • according to UL 508 rated value apacity maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor	 without load current share typical 	1.8 W
surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2006 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 • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor	insulation voltage rated value	600 V
shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 • at 50 Hz rated value • at 60 Hz rated value volerating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value 30 A ampacity maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor	type of voltage of the control supply voltage	AC
vibration resistance according to IEC 60068-2-6 reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Mini circuit number of poles for main current circuit 3 number of NO contacts for main contacts 3 number of NO contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • at 60 Hz operational current • at AC-51 rated value • at Coording to UL 508 rated value ampacity maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor 10 mA	surge voltage resistance of main circuit rated value	6 kV
reference code according to EN 61346-2 Q reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2006 Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value 48 600 V • at 60 Hz 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 operating range relative to the operating voltage at AC • at 50 Hz 50	shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2006 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 • at 50 Hz rated value 48 600 V • at 60 Hz 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 operating range relative to the operating voltage at AC • at 50 Hz 40 660 V operational current • at AC-51 rated value 30 A ampacity maximum operational current minimum 500 mA rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor	vibration resistance according to IEC 60068-2-6	2g
Substance Prohibitance (Date) 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 frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at AC-51 rated value • at Coording to UL 508 rated value • according to UL 508 rated value operational current minimum operational current minimum soo A operational current minimum foo mA rate of voltage rise at the thyristor for main contacts maximum permissible reverse current of the thyristor	reference code according to EN 61346-2	Q
Main circuit number of poles for main current circuit 3 number of NC contacts for main contacts 0 operating voltage at AC 48 600 V • at 50 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 40 660 V • at 50 Hz 40 660 V • at 60 Hz 40 660 V operational current 30 A • at AC-51 rated value 30 A • according to UL 508 rated value 30 A • according to UL 508 rated value 30 A operational current minimum 500 mA rate of voltage rise at the thyristor for main contacts maximum permissible 500 V/µs blocking voltage at the thyristor for main contacts maximum permissible 1 200 V reverse current of the thyristor 10 mA	reference code according to IEC 81346-2	Q
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 operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 50 Hz operating range relative to the operating voltage at AC • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at Co-51 rated value operational current minimum operational current minimum 500 mA 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	Substance Prohibitance (Date)	07/01/2006
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 operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum 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 10 % 48 600 V 48 600 V 40 660 V 40 660 V 40 660 V 30 A 30	Main circuit	
number of NC contacts for main contacts operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum 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 10 M 48 600 V 48 600 V 48 600 V 40 660 V 40 660 V 40 660 V 30 A 30 A 500 mA 500 mA	number of poles for main current circuit	3
operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum 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 10 mA 48 600 V 48 600 V 40 660 V 40 660 V 40 660 V 30 A 30 A 500 mA 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	number of NO contacts for main contacts	3
at 50 Hz rated value at 60 Hz rated value 48 600 V operating frequency rated value 50 60 Hz relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC at 50 Hz at 60 Hz 40 660 V operational current at AC-51 rated value according to UL 508 rated value ampacity maximum operational current minimum 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 10 mA	number of NC contacts for main contacts	0
at 60 Hz rated value operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC at 50 Hz at 60 Hz operational current at AC-51 rated value according to UL 508 rated value ampacity maximum operational current minimum 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 10 mA	operating voltage at AC	
operating frequency rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz operational current • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum soon mA 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 10 MA	• at 50 Hz rated value	48 600 V
relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum so operational current minimum 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 10 % 40 660 V 40 660 V 30 A 50 A 500 MA 1200 V 1200 V	at 60 Hz rated value	48 600 V
operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at AC-51 rated value • at AC-51 rated value • according to UL 508 rated value ampacity maximum operational current minimum 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 10 mA	operating frequency rated value	50 60 Hz
 at 50 Hz at 60 V at 60 Hz operational current at AC-51 rated value according to UL 508 rated value ampacity maximum operational current minimum 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 10 mA 	relative symmetrical tolerance of the operating frequency	10 %
at 60 Hz operational current at AC-51 rated value according to UL 508 rated value ampacity maximum operational current minimum 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 10 mA	operating range relative to the operating voltage at AC	
operational current • at AC-51 rated value • according to UL 508 rated value 30 A ampacity maximum 30 A operational current minimum 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 10 mA	• at 50 Hz	40 660 V
 at AC-51 rated value according to UL 508 rated value 30 A ampacity maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible 1 200 V reverse current of the thyristor 10 mA 	• at 60 Hz	40 660 V
according to UL 508 rated value ampacity maximum 30 A operational current minimum 500 mA rate of voltage rise at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor	operational current	
ampacity maximum operational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible blocking voltage at the thyristor for main contacts maximum permissible to maximum permissible reverse current of the thyristor 10 mA	• at AC-51 rated value	30 A
operational current minimum 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 10 mA	according to UL 508 rated value	30 A
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 10 mA	ampacity maximum	30 A
maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor 10 mA	operational current minimum	500 mA
maximum permissible reverse current of the thyristor 10 mA		500 V/µs
·		1 200 V
derating temperature 40 °C	reverse current of the thyristor	10 mA
	derating temperature	40 °C

surge current resistance rated value	300 A
I2t value maximum	450 A²-s
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz	88 121 V
• at 60 Hz	88 121 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	
• at 50 Hz full-scale value for signal<0> recognition	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
control current at minimum control supply voltage	
• at AC	2 mA
control current at AC rated value	15 mA
ON-delay time	40 ms
OFF-delay time	40 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	
fastening method	screw fixing
side-by-side mounting	Yes
design of the thread of the screw for securing the	M4
equipment	
tightening torque of fixing screw maximum	1.5 N·m
tightening torque [lbf·in] of fixing screw maximum	13 lbf-in
height	95 mm
width	45 mm
depth	47 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for main current circuit for auxiliary and control circuit	screw-type terminals screw-type terminals
for auxiliary and control circuit	
for auxiliary and control circuit type of connectable conductor cross-sections	
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts	screw-type terminals
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing • for AWG cables for main contacts	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing • for AWG cables for main contacts	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing • for AWG cables for main contacts connectable conductor cross-section for main contacts	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10)
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm²
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing • for AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm²
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm²
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm²
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts — solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²) 2x (14 10) 1.5 6 mm² 1 10 mm²
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main contacts connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary and control contacts — solid — finely stranded with core end processing	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections of main contacts — solid — finely stranded with core end processing of AWG cables for main contacts connectable conductor cross-section for main contacts osolid or stranded of inely stranded with core end processing type of connectable conductor cross-sections of auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
for auxiliary and control circuit type of connectable conductor cross-sections of main contacts — solid — finely stranded with core end processing of r AWG cables for main contacts connectable conductor cross-section for main contacts osolid or stranded of inely stranded with core end processing type of connectable conductor cross-sections of r auxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 10 14
for auxiliary and control circuit type of connectable conductor cross-sections of main contacts — solid — finely stranded with core end processing of rawG cables for main contacts connectable conductor cross-section for main contacts osolid or stranded of inely stranded with core end processing type of connectable conductor cross-sections of rauxiliary and control contacts — solid — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary and control contacts AWG number as coded connectable conductor cross section for main contacts tightening torque of rauxiliary and control contacts with screw-type	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 10 14
for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 10 14
for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts	2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10) 1.5 6 mm² 1 10 mm² 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (AWG 20 12) 10 14

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	7 mm
for auxiliary and control contacts	7 mm
Safety related data	
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	
during operation	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV / 5 kHz behavior criterion 2
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV behavior criterion 2
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV behavior criterion 2
 due to high-frequency radiation according to IEC 61000- 4-6 	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging / 8 kV air discharging, behavior criterion 2
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according 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 	3NE1814-0; These fuses have a smaller rated current than the semiconductor relays
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE8003-1
 of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable 	3NC1025: These fuses have a smaller rated current than the semiconductor relays
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1430
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2232
manufacturer's article number of the gG fuse at NH design usable	
• up to 460 V	3NA3803-6; These fuses have a smaller rated current than the semiconductor relays
● up to 600 V	3NA3803-6; These fuses have a smaller rated current than the semiconductor relays
Certificates/ approvals	

General Product Approval

EMC

Declaration of Conformity



Confirmation









Test Certificates

other

Type Test Certificates/Test Report

Confirmation



Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an

EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

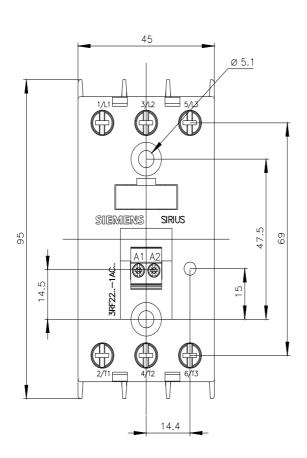
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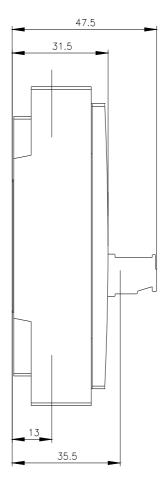
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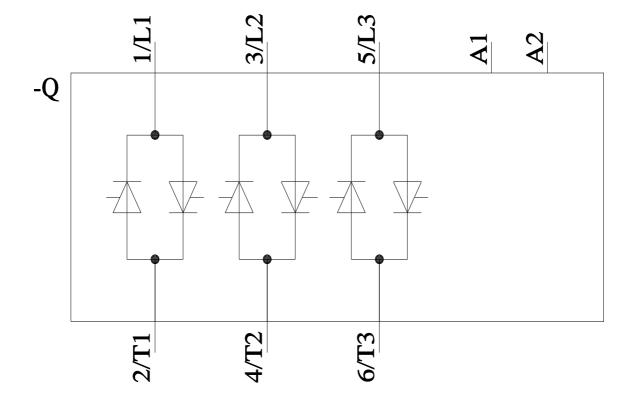
rt.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2230-1AC35

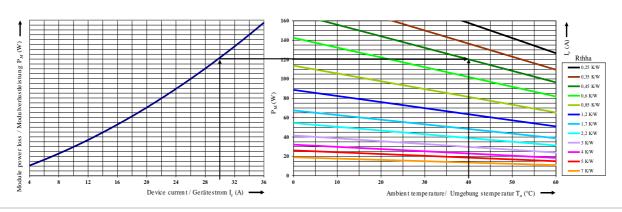
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RF2230-1AC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2230-1AC35&lang=en









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