SIEMENS

Data sheet 3RF2390-3BA06

product brand name product type designation product type designation product type designation manufacturer's article number • _1 of the accessories that can be ordered • _2 of the accessories that can be ordered • _3 of the accessories that can be ordered • _4 of the accessories that can be ordered • _4 of the accessories that can be ordered • _2 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _4 of the accessories that		Solid-state contactor 1-phase 3RF2 AC 15 / 30 A / 40 °C 48-600 V / 24 V DC Instantaneous switching Phased-out product, no successor available!
product type designation manufacturer's article number 1 of the accessories that can be ordered2 of the accessories that can be ordered3 of the accessories that can be ordered3 of the accessories that can be ordered3 of the accessories that can be ordered4 of the accessories that can be ordered2 of the accessories that can be ordered3 of the accessories that can be ordered4 of the accessories that can be ordered4 of the ordered4 of the ordered4 of the ordered -	product brand name	SIRIUS
manufacturer's article number • _1 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _3 of the accessories that can be ordered • _4 of the accessories that can be ordered • _4 of the accessories that can be ordered • _2 of the accessories that can be ordered • _2 of the accessories that can be ordered • _3 of the accessories that can be ordered • _4 of the accessories that can be	product designation	solid-state contactor
- 1 of the accessories that can be ordered - 2 of the accessories that can be ordered 3RF2990-DIA16	product type designation	3RF23
- 2 of the accessories that can be ordered - 3 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 2 of the accessories that can be ordered - 2 of the accessories that can be ordered - 2 of the accessories that can be ordered - 3 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 5 of the accessories that can be ordered - 6 of the accessories that can be ordered - 6 of the accessories that can be ordered - 7 of the accessories that can be ordered - 9 of the accessories that can be ordered - 10 of the accesories that can be ordere	manufacturer's article number	
- 2 of the accessories that can be ordered - 3 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 2 of the accessories that can be ordered - 2 of the accessories that can be ordered - 2 of the accessories that can be ordered - 3 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 4 of the accessories that can be ordered - 5 of the accessories that can be ordered - 6 of the accessories that can be ordered - 6 of the accessories that can be ordered - 7 of the accessories that can be ordered - 9 of the accessories that can be ordered - 10 of the accesories that can be ordere	 1 of the accessories that can be ordered 	3RF2900-3PA88
- 3 of the accessories that can be ordered product designation - 1 of the accessories that can be ordered product designation - 1 of the accessories that can be ordered power regulator - 3 of the accessories that can be ordered power regulator - 3 of the accessories that can be ordered power regulator - 4 of the accessories that can be ordered power regulator - 4 of the accessories that can be ordered power regulator - 4 of the accessories that can be ordered power regulator - 5 of the accessories that can be ordered power regulator - 6 of the accessories that can be ordered power regulator - 7 of the accessories that can be ordered power regulator - 8 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 9 of the accessories that can be ordered power regulator - 17 W	_	
e_4 of the accessories that can be ordered product designation e_1 of the accessories that can be ordered e_2 of the accessories that can be ordered e_3 of the accessories that can be ordered e_4 of the accessories that can be ordered e_4 of the accessories that can be ordered Ceneral technical data product function power loss [W] for rated value of the current e_4 at AC in hot operating state e_4 at AC in hot operating state e_4 at AC in hot operating state e_5 without load current share typical insulation voltage rated value degree of pollution yep of voltage of the control supply voltage surge voltage resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-37 reference code according to IEC 60068-2-6 reference code according to IEC 60068-2-6 reference code according to IEC 61348-2 Qusubstance Prohibitance (Date) Main circuit number of NO contacts for main current circuit number of NO contacts for main contacts number of NO contacts for main contacts number of NO contacts for main contacts operating value at AC e_at 50 Hz rated value e_at 60 Hz rated value e_at 60 Hz operating range relative to the operating voltage at AC e_at 50 Hz e_at 60 Hz operating range relative to the operating voltage at AC e_at 50 Hz e_at 60 Hz operational current e_at AC-51 according to IEC 60947-4-3 e_according to UL 508 rated value operational current minimum rate of voltage ise 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 control circuit/Control Control circuit/Control Control circuit/Control	_	3RF2900-0EA18
product designation 1 of the accessories that can be ordered 2 of the accessories that can be ordered 3 of the accessories that can be ordered 4 of the accesories the accerdance ordered 4 of the accesories that can be ordered	-	3RF2990-0GA16
e_2 of the accessories that can be ordered 3 of the accessories that can be ordered 4 of the accessories that can be ordered 4 of the accessories that can be ordered 4 of the accessories that can be ordered	_	
■ 2 of the accessories that can be ordered ■ 3 of the accessories that can be ordered ■ 3 of the accessories that can be ordered ■ 4 of the accessories that can be ordered 3 of the accessories that can be ordered 10 of the accessories that can be ordered to accessories that can be over the accessories that can be ordered to ac	_1 of the accessories that can be ordered	terminal cover
General technical data Froduct function power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical insulation voltage rated value degree of pollution 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 81346-2 Qusbstance Prohibitance (Date) Nain circuit number of NO contacts for main contacts operating voltage at AC • at 50 Hz • at 60 Hz •	_	power regulator
product function power loss [W] for rated value of the current • at AC in hot operating state 117 W	 _3 of the accessories that can be ordered 	converter
product function power loss [W] for rated value of the current at AC in hot operating state instantaneous switching at AC in hot operating state instantaneous switching without load current share typical insulation voltage rated value degree of pollution type of voltage of the control supply voltage surge voltage resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 geference code according to IEC 60068-2-6 gubestance Prohibitance (Date) Main circuit number of poles for main current circuit number of NC contacts for main contacts number of NC contacts for main contacts 1 number of NC contacts for main contacts 2 at 60 Hz rated value at 60 Hz rated value operating requency rated value operating requency rated value operating range relative to the operating voltage at AC at 50 Hz at 60 Hz operational current at AC-51 raccording to IEC 60947-4-3 according to U. 508 rated value operating rout 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 derating temperature usurge current resistance rated value 117 W 40 AC 40 C 40	_4 of the accessories that can be ordered	load monitoring
power loss [W] for rated value of the current at AC in hot operating state	General technical data	
power loss [W] for rated value of the current at AC in hot operating state	product function	instantaneous switching
at AC in hot operating state at AC in hot operating state per pole without load current share typical insulation voltage rated value degree of pollution 3 type of voltage of the control supply voltage surge voltage resistance according to IEC 60068-2-7 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g substance Prohibitance (Date) Main circuit number of Poles for main current circuit number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 operating voltage at AC at 50 Hz rated value 1 at 60 Hz rated value operating requency rated value operating range relative to the operating voltage at AC at 50 Hz at 60 Hz operational current at AC-51 rated value	•	motantanosas ontoning
at AC in hot operating state per pole without load current share typical insulation voltage rated value degree of pollution type of voltage of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-7 vibration resistance according to IEC 60068-2-6 greference code according to IEC 60068-2-6 greference code according to IEC 81346-2 Q Substance Prohibitance (Date) Main circuit number of NO contacts for main contacts number of NO contacts for main contacts operating voltage at AC at 50 Hz rated value at 60 Hz rated value operating requency rated value operating requency rated value at 60 Hz be at 60 Hz at 60 Hz be		117 W
without load current share typical insulation voltage rated value 600 V degree of pollution 3 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 reference code according to IEC 60068-2-6 Q Substance Prohibitance (Date) 05/28/2009 Main circuit number of poles for main current circuit 1 number of NC contacts for main contacts 1 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 48 600 V • at 60 Hz rated value 48 600 V • at 60 Hz rated value 48 600 V • at 60 Hz rated value 40 660 V • at 60 Hz according to IEC 60947-4-3 88 A • according to IEC 60947 according to IEC 60947-4-3 88 A • according to IEC 60947-4-3 88 A • according to IEC 60947 acc	·	
insulation voltage rated value degree of poliution 3 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 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Main circuit number of poles for main current circuit 1 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value 0 perating frequency rated value 0 perating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz 0 operational current • at AC-51 according to IEC 60947-4-3 • according to IL Soß rated value 0 perational current minimum rate of voltage rise at the thyristor for main contacts maximum permissible roverse current of the thyristor for main contacts maximum permissible roverse current of the thyristor 10 mA derating temperature surge current resistance rated value 12 t value maximum 6600 A²-s Control circuit/ Control		
degree of pollution type of voltage of the control supply voltage surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NO contacts for main contacts 1 number of NC contacts for main contacts 0 operating voltage at AC at 50 Hz rated value operating frequency rated value operating frequency rated value operating range relative to the operating voltage at AC at 50 Hz at 60 Hz be at 60 Hz operational current at AC-51 rated value at AC-51 rated value at AC-51 according to IEC 60947-4-3 according to UL 508 rated value 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 location in the control of the c	· · · · · · · · · · · · · · · · · · ·	
type of voltage of the control supply voltage 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 81346-2 Q Substance Prohibitance (Date) 05/28/2009 Main circuit number of poles for main current circuit 1 1 number of NC contacts for main contacts 1 1 number of NC contacts for main contacts 0 coperating voltage at AC at 50 Hz rated value 48 600 V at 60 Hz rated value 48 600 V operating requency rated value 48 600 V operating requency rated value 40 660 V operating requency rated value 40 660 V operational current at AC-51 rated value 88 A according to IEC 60947-4-3 88 A according to UL 508 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 blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor 40 control circuit/ Control		
surge voltage resistance of main circuit rated value shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 80068-2-6 2g reference code according to IEC 81346-2 Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NC contacts for main contacts number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value 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 • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current of the thyristor derating temperature 40 °C surge current resistance rated value 1150 A 12t value maximum 6000 A²-s Control circuit/ Control		
shock resistance according to IEC 60068-2-7 vibration resistance according to IEC 60068-2-6 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NO contacts for main contacts 1 number of NO contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value 0 perating requency rated value 0 operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at AC-51 rated value 0 at AC-51 rated value 1 at		
vibration resistance according to IEC 60068-2-6 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/28/2009 Main circuit number of poles for main current circuit number of NC contacts for main contacts 1 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 48 600 V operating requency rated value 50 60 Hz operating range relative to the operating voltage at AC • at 50 Hz 40 660 V • at 60 Hz operating range relative to the operating voltage at AC • at 50 Hz 40 660 V operational current • at AC-51 rated value 88 A • at AC-51 according to IEC 60947-4-3 88 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 blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor 40 °C surge current resistance rated value 150 A 600 A²-s Control circuit/ Control		15a / 11 ms
reference code according to IEC 81346-2 Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NC 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 range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at A	_	
Substance Prohibitance (Date) Main circuit number of poles for main current circuit number of NO contacts for main contacts 1 number of NC contacts for main contacts 0 operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value 0 perating requency rated value 0 operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at AC-51 raceording to IEC 60947-4-3 • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 surge current resistance rated value 1150 A Izt value maximum Control circuit/ Control		
number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts 1 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 operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 reverse current of the thyristor derating temperature surge current resistance rated value 1150 A 12t value maximum Control circuit/ Control		
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 range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 surge current resistance rated value 12t value maximum Control circuit/ Control		00/20/2000
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 range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current resistance rated value 1150 A 12t value maximum Control circuit/ Control		1
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 range relative to the operating voltage at AC • at 50 Hz operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at AC-51 rated value 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 derating temperature surge current resistance rated value 1 150 A 2t value maximum 250 MA	•	
operating voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating frequency rated value operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current resistance rated value 1 150 A 12t value maximum 6 600 A²-s Control circuit/ Control		
at 50 Hz rated value at 60 Hz rated value broad frequency rated value coperating frequency rated value coperating range relative to the operating voltage at AC at 50 Hz broad frequency at 60 Hz at 60 Hz broad frequency rated value cat 60 Hz cat 50 Hz broad frequency cat 60 Hz coperational current at AC-51 rated value cat AC-51 rated value cat AC-51 according to IEC 60947-4-3 cat AC-51 according to UL 508 rated value coperational current minimum cat cording to UL 508 rated value coperational current minimum cat of voltage rise at the thyristor for main contacts cat frequency cat AC-51 according to IEC 60947-4-3 cat AC-51 accor		C
• at 60 Hz rated value operating frequency rated value operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 rated value • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current resistance rated value 1000 V²-s Control circuit/ Control		48 600 V
operating frequency rated value operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz operational current • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current resistance rated value 1000 A2-s Control circuit/ Control		
operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current resistance rated value 1 000 V 10 mA 10 mA 40 °C 1150 A 12t value maximum 6 600 A²-s Control circuit/ Control		
at 50 Hz at 60 Hz at 60 Hz operational current at AC-51 rated value at AC-51 according to IEC 60947-4-3 according to UL 508 rated value 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 derating temperature surge current resistance rated value 1000 V/ 1000 V/ 1000 V/ 1000 V 1000		30 00 TIZ
at 60 Hz operational current at AC-51 rated value at AC-51 according to IEC 60947-4-3 according to UL 508 rated value 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 derating temperature surge current resistance rated value 12t value maximum 40 660 V 48 A 40 660 V 10 mA 1000 V/µs 1000 V 11000 V		40 660 V
operational current • at AC-51 rated value • at AC-51 according to IEC 60947-4-3 • according to UL 508 rated value 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 derating temperature surge current resistance rated value 1 000 V 10 mA 40 °C surge current resistance rated value 1 150 A 12t value maximum 6 600 A²-s Control circuit/ Control		
 at AC-51 rated value at AC-51 according to IEC 60947-4-3 according to UL 508 rated value 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 derating temperature surge current resistance rated value 1 50 A 		10 000 ¥
at AC-51 according to IEC 60947-4-3 according to UL 508 rated value 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 derating temperature surge current resistance rated value 1000 V 10 mA 40 °C surge current resistance rated value 1150 A 12t value maximum 6 600 A²-s Control circuit/ Control	•	88 A
according to UL 508 rated value 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 derating temperature surge current resistance rated value 12t value maximum 30 A 1000 V/µs 1000 V/µs 1000 V 1		
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 derating temperature surge current resistance rated value 12t value maximum 500 mA 1 000 V/µs 1 000 V 1 000		
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 12t value maximum 1000 V/µs 1600 V 10 mA 10 mA 1150 A 12t value maximum 150 A 12t value maximum 1000 V/µs		
maximum permissible blocking voltage at the thyristor for main contacts maximum permissible reverse current of the thyristor derating temperature surge current resistance rated value 1150 A 12t value maximum 6 600 A²-s Control circuit/ Control	The second secon	
maximum permissible reverse current of the thyristor derating temperature surge current resistance rated value 1150 A 12t value maximum 6 600 A²·s Control circuit/ Control		. 555 1165
derating temperature 40 °C surge current resistance rated value 1 150 A 12t value maximum 6 600 A²·s Control circuit/ Control		1 600 V
surge current resistance rated value 1 150 A 12t value maximum 6 600 A ² ·s Control circuit/ Control	reverse current of the thyristor	
I2t value maximum 6 600 A²-s Control circuit/ Control	derating temperature	40 °C
Control circuit/ Control	•	1 150 A
	I2t value maximum	6 600 A ² ·s
type of voltage of the control supply voltage DC	Control circuit/ Control	
	type of voltage of the control supply voltage	DC

control supply voltage 1	
at DC rated value	30 V
• at DC	15 24 V
control supply voltage	
at DC initial value for signal <1> detection	15 V
at DC full-scale value for signal<0> recognition	5 V
control current at minimum control supply voltage	
• at DC	13 mA
control current at DC rated value	15 mA
ON-delay time	1 ms
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method	screw fixing
side-by-side mounting	Yes
design of the thread of the screw for securing the	M4
equipment	IVIT
height	200 mm
width	180 mm
depth	163 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Ring cable lug connection
 for auxiliary and control circuit 	ring terminal lug connection
type of connectable conductor cross-sections	
 for main contacts for JIS cable lug 	JIS C 2805 R 2-5, 5,5-5, 8-5, 14-5
 for DIN cable lug for main contacts 	DIN 46234 -5-2,5, -5-6, -5-10, -5-16, -5-25
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)
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type 	0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	
for auxiliary and control contacts with screw-type terminals	4.5 5.3 lbf·in
terminals design of the thread of the connection screw	
for main contacts	M5
of the auxiliary and control contacts	M3
stripped length of the cable	IVIO
for main contacts	10 mm
for auxiliary and control contacts	10 mm
Safety related data	
protection class IP on the front according to IEC	IP00; IP20 with cover
60529	11 00, 11 20 Will 00701
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
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
<u> </u>	Z KV / 3 KHZ DCHAVIOL CHICHOTI Z
 due to conductor-earth surge according to IEC 	2 kV behavior criterion 2

• due to conductor-conductor surge according to IEC 61000-4-5

• due to high-frequency radiation according to IEC 61000-4-6

field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to CISPR11

field-bound HF interference emission according to CISPR11

1 kV behavior criterion 2

140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1

80 MHz ... 1 GHz 10 V/m, behavior criterion 1

4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment

Class B for the domestic, business and commercial environments

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 cylindrical design 22 x 58 mm usable

<u>3NE1020-2</u>; These fuses have a smaller rated current than the semiconductor relays

3NE8021-1

<u>3NC2280</u>; These fuses have a smaller rated current than the semiconductor relays

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Confirmation



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=3RF2390-3BA06

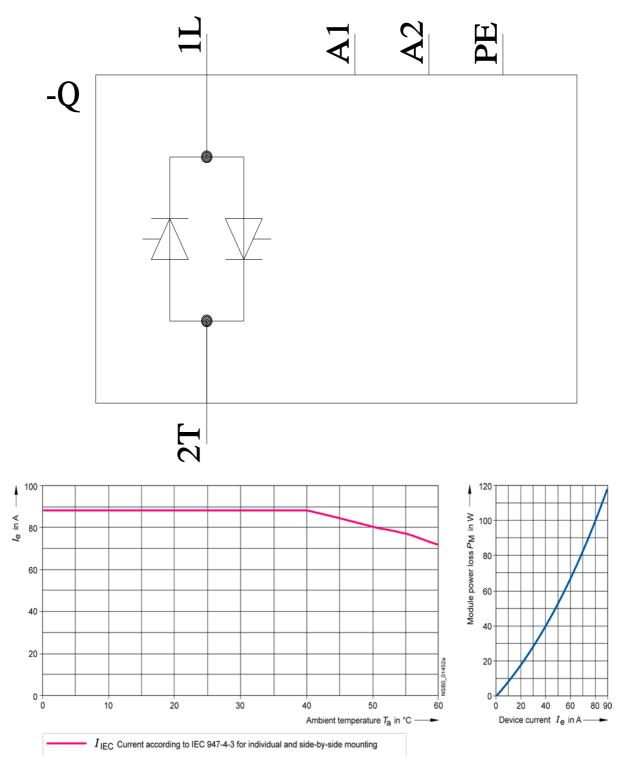
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2390-3BA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF2390-3BA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RF2390-3BA06&lang=en



last modified: 1/26/2022 🖸