SIEMENS

Data sheet

3RF2350-1BA02



Solid-state contactor 1-phase 3RF2 AC 15 / 25 A / 40 $^\circ \rm C$ 24-230 V / 24 V DC Instantaneous switching

product brand name	SIRIUS
product designation	solid-state contactor
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
 _1 of the accessories that can be ordered 	<u>3RF2900-3PA88</u>
 _2 of the accessories that can be ordered 	<u>3RF2950-0HA13</u>
 _3 of the accessories that can be ordered 	3RF2900-0EA18
 _4 of the accessories that can be ordered 	<u>3RF2950-0GA13</u>
product designation	
 _1 of the accessories that can be ordered 	terminal cover
 _2 of the accessories that can be ordered 	power regulator
 _3 of the accessories that can be ordered 	converter
 _4 of the accessories that can be ordered 	load monitoring
General technical data	
product function	instantaneous switching
power loss [W] for rated value of the current	
 at AC in hot operating state 	54 W
 at AC in hot operating state per pole 	54 W
 without load current share typical 	0.4 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage	
 of the operating voltage 	AC
 of the control supply voltage 	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 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4
Weight	0.47 kg
Main circuit	
number of poles for main current circuit	1
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	24 230 V
— at 60 Hz rated value	24 230 V
operating frequency rated value	50 60 Hz
operating range relative to the operating voltage at AC	00 0501/
• at 50 Hz	20 253 V
at 60 Hz	20 253 V
operational current	50.4
 at AC-51 rated value at AC 51 according to JEC 60947.4.3 	50 A 36 A
 at AC-51 according to IEC 60947-4-3 according to LU, 508 rated value 	36 A 25 A
operational current minimum	25 A 500 mA
rate of voltage rise at the thyristor for main contacts	1 000 V/µs
maximum permissible	
blocking voltage at the thyristor for main contacts maximum permissible	800 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	1 150 A
l2t 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 maximum permissible	30 V
control supply voltage 1 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	
type of switching contact	normally open contact (NO) 0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Installation/ mounting/ dimensions	
fastening method side-by-side mounting	Yes
fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according
design of the thread of the scrow for securing the	to IEC 60715 M4
design of the thread of the screw for securing the equipment	1717
height	100 mm
width	67.5 mm
depth	144.5 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
— finely stranded with core end processing	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²
for AWG cables for main contacts	2x (14 10)
connectable conductor cross-section for main contacts	
 solid or stranded 	1.5 6 mm²
 finely stranded with core end processing 	1 10 mm²

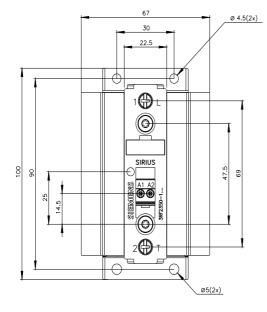
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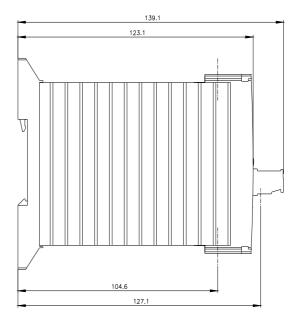


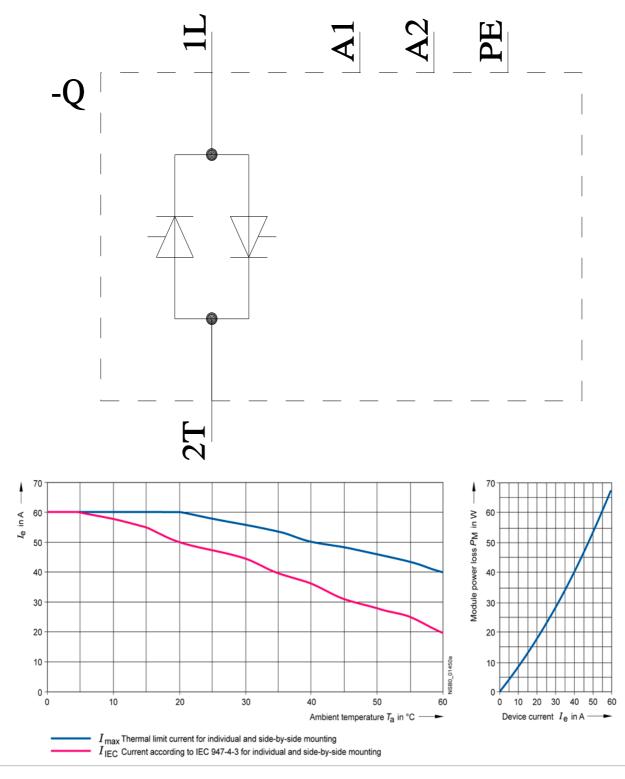
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