SIEMENS

Data sheet 3RF2350-3AA24



Solid-state contactor 1-phase 3RF2 AC 51 / 50 A / 40 $^{\circ}\text{C}$ 48-460 V / 110-230 V AC Ring cable connection

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	3RF2900-3PA88
_4 of the accessories that can be ordered	3RF2950-0GA36
product designation	
_1 of the accessories that can be ordered	terminal cover
_4 of the accessories that can be ordered	load monitoring
General technical data	
product function	zero-point 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 	3.5 W
insulation voltage rated value	600 V
degree of pollution	3
type of voltage	
 of the operating voltage 	AC
 of the control supply voltage 	AC
surge voltage resistance of main circuit rated value	6 kV
protection class IP	IP00
protection class IP on the front according to IEC 60529	IP00
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)	07/01/2006
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	0.48 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
type of voltage of the operating voltage	AC
operating voltage	
• at AC	
— at 50 Hz rated value	48 460 V
— at 60 Hz rated value	48 460 V

operating frequency rated value	50 60 Hz
operating requestry fated value operating range relative to the operating voltage at AC	30 00 Hz
at 50 Hz	40 506 V
	40 506 V
• at 60 Hz	40 506 V
operational current	50 A
at AC-51 rated value	50 A
• at AC-51 according to IEC 60947-4-3	36 A
according to UL 508 rated value	45 A
operational current minimum	500 mA
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	1 200 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	AC
control supply voltage 1 at AC	
● at 50 Hz	110 230 V
• at 60 Hz	110 230 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
symmetrical line frequency tolerance	5 Hz
control current at minimum control supply voltage	
• at AC	2 mA
control current at AC rated value	15 mA
ON-delay time	40 ms; additionally max. one half-wave
OFF-delay time	40 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
Installation/ mounting/ dimensions	•
	Yes
fastening method side-by-side mounting fastening method	screw fixing and snap-on mounting on standard mounting rail 35 mm according
	to IEC 60715 M4
design of the thread of the screw for securing the equipment	IVI T
height	100 mm
width	67 mm
depth	141 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	Ring cable lug connection
	ring terminal lug connection
• for auxiliary and control circuit	Ting terminaring connection
type of connectable conductor cross-sections	IIS C 2005 D 2 5 5 5 5 0 5 44 5
for main contacts for JIS cable lug for DIN cable lug for main contacts.	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	4 (05 05 3) 0 (05 40 3)
— solid	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

Finely stranded with core and processing Finely stranded with core and processing Finely stranded with core and processing Finely stranded with core one of processing Finely stranded with screw-type terminals For auxiliary and control contacts with screw-type Finely stranded with core with screw-type Finely stranded for the commection screw For auxiliary and control contacts with screw-type Finely stranded of the commection screw For main contacts For m		
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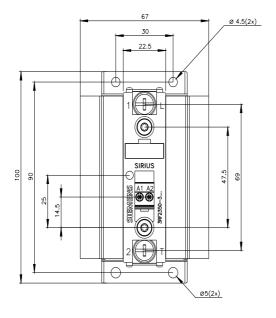
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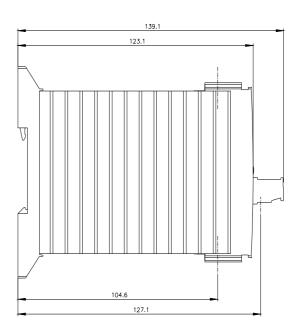
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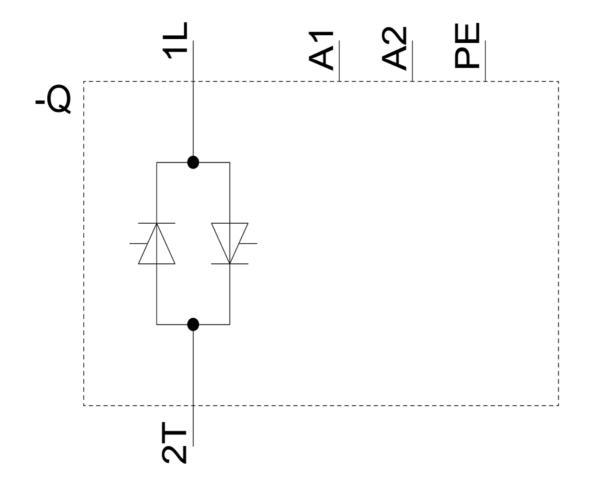
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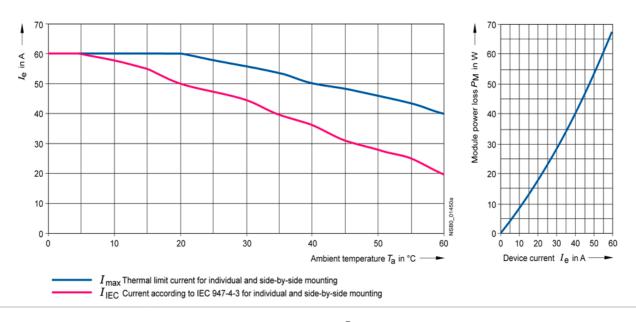
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