SIEMENS

Data sheet 3RF2450-1AC35



Solid-state contactor 3-phase 3RF2 AC 51 / 50 A / 40 $^{\circ}\text{C}$ 48-600 V / 110 V AC 3-phase controlled screw terminal Blocking voltage 1200 V

product brand name	SIRIUS	
product designation	solid-state contactor	
design of the product	three-phase controlled	
product type designation	3RF24	
General technical data		
product function	zero-point switching	
power loss [W] for rated value of the current		
 at AC in hot operating state 	160 W	
 at AC in hot operating state per pole 	53.33 W	
 without load current share typical 	1.9 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	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)	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	1.216 kg	
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	
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	
operational current		

 at AC-51 rated value 	50 A
at AC-51 according to IEC 60947-4-3	38 A
 according to UL 508 rated value 	38 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
12t 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	90 125 V
• at 60 Hz	90 125 V
control supply voltage frequency	
• 1 rated value	45 Hz
• 2 rated value	66 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	90 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
Auxiliary circuit	, and a state of the state of t
raxmary circuit	
-	normally onen contact (NO)
type of switching contact	normally open contact (NO)
type of switching contact number of NC contacts for auxiliary contacts	0
type of switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
type of switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
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Confirmation

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Information on the packaging

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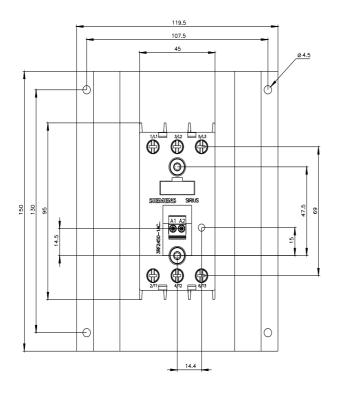
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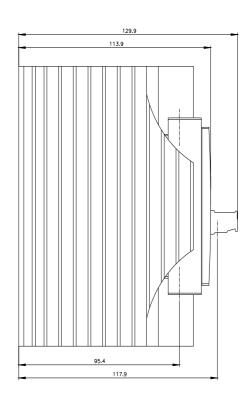
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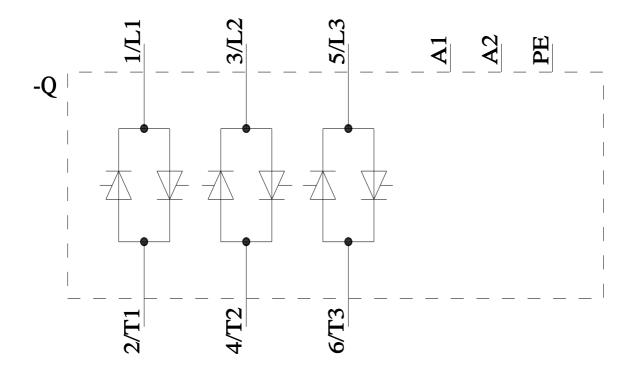
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