SIEMENS

Data sheet 3RF2370-3AA06

0101110



Solid-state contactor 1-phase 3RF2 AC 51 / 70 A / 40 $^{\circ}$ C 48-600 V / 24 V DC Ring cable connection Since 21 May 2018, the dimensions and the drill pattern have changed, additional information in the Industry Online Support

	solid-state contactor
decian of the product	
design of the product	single-phase
product type designation	3RF23
manufacturer's article number	
 _1 of the accessories that can be ordered 	3RF2900-3PA88
 _3 of the accessories that can be ordered 	3RF2900-0EA18
• _4 of the accessories that can be ordered	3RF2990-0GA16
product designation	
 _1 of the accessories that can be ordered 	terminal cover
• _3 of the accessories that can be ordered	converter
• _4 of the accessories that can be ordered	load monitoring
Seneral technical data	
product function z	zero-point switching
power loss [W] for rated value of the current	
• at AC in hot operating state	83 W
• at AC in hot operating state per pole	83 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
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	К
reference code according to EN 61346-2	Q
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2006
L	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4
fain 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	

of EO He water described	40 000 1/
— at 50 Hz rated value	48 600 V
— at 60 Hz rated value	48 600 V
operating frequency rated value	50 60 Hz
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	70 A
at AC-51 according to IEC 60947-4-3	70 A
according to UL 508 rated value	62 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	1 600 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	DC
control supply voltage 1 at DC	
rated value maximum permissible	30 V
•	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; additionally max. one half-wave
OFF-delay time	1 ms; additionally max. one half-wave
Auxiliary circuit	,,,,,,,, .
	0
number of NG Comacts for auxiliary confacts	
number of NC contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	0 0
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number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method design of the thread of the screw for securing the	0 0 Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according
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number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method design of the thread of the screw for securing the equipment height	O O Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4 100 mm
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 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m
tightening torque [lbf·in]	
 for auxiliary and control contacts with screw-type terminals 	4.5 5.3 lbf-in
design of the thread of the connection screw	
• for main contacts	M5
 of the auxiliary and control contacts 	M3
stripped length of the cable	
• for main contacts	10 mm
 for auxiliary and control contacts 	10 mm
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
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
 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
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, 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 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 	3NE1020-2
 of back-up R fuse link for semiconductor protection at NH design usable 	3NE8020-1
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2280
Approvals Certificates	

General Product Approval

Confirmation











Test Certificates other Environment

Type Test Certificates/Test Report

Confirmation



Environmental Confirmations

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

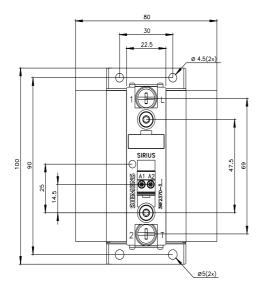
Industry Mall (Online ordering system)

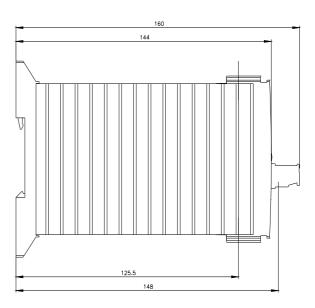
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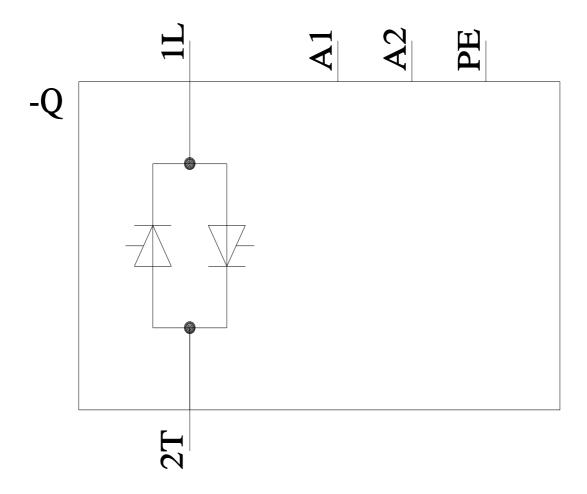
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