SIEMENS

Data sheet 3RF2350-1BA06



Solid-state contactor 1-phase 3RF2 AC 15 / 25 A / 40 $^{\circ}\text{C}$ 48-600 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	3RF2900-3PA88
_2 of the accessories that can be ordered	3RF2950-0HA16
_3 of the accessories that can be ordered	3RF2900-0EA18
_4 of the accessories that can be ordered	3RF2950-0GA16
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
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to EN 61346-2	Q
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
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	48 600 V
— at 60 Hz rated value	48 600 V

operating frequency rated value	50 60 Hz
operating frequency fated value operating range relative to the operating voltage at AC	00 00 FIZ
at 50 Hz	40 660 \/
	40 660 V
• at 60 Hz	40 660 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	25 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 A ² ·s
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	This, additionally make one has have
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 and snap-on mounting on standard mounting rail 35 mm according
lasterning method	to IEC 60715
• side-by-side mounting	Yes
design of the thread of the screw for securing the	M4
equipment	IVI4
· ·	100 mm
equipment	
equipment height	100 mm
equipment height width	100 mm 67.5 mm
equipment height width depth	100 mm 67.5 mm
equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	100 mm 67.5 mm 144.5 mm
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for AWG cables for auxiliary and control contacts	1x (AWG 20 12)			
AWG number as coded connectable conductor cross section for main contacts	10 14			
tightening torque				
 for main contacts with screw-type terminals 	2 2.5 N·m			
 for auxiliary and control contacts with screw-type terminals 	0.5 0.6 N·m			
tightening torque [lbf·in]				
 for main contacts with screw-type terminals 	18 22 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 	M4			
of the auxiliary and control contacts	M3			
stripped length of the cable				
 for main contacts 	7 mm			
 for auxiliary and control contacts 	7 mm			
afety related data				
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
mbient conditions				
installation altitude at height above sea level maximum	1 000 m			
ambient temperature				
during operation	-25 +60 °C			
during storage	-55 +80 °C			
lectromagnetic 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			
hort-circuit protection, design of the fuse link				
manufacturer's article number				
 of gS fuse for semiconductor protection at NH design usable 	3NE1817-0			
 of full range R fuse link for semiconductor protection at cylindrical design usable 	5SE1363			
• of back-up R fuse link for semiconductor protection at NH design usable	3NE1817-0			
 of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable 	3NC1450			
 of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable 	3NC2280			
ertificates/ approvals				
General Product Approval		EMC	Declaration of Conformity	











Declaration of Conformity	Test Certificates	other	Railway
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Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RF2350-1BA06

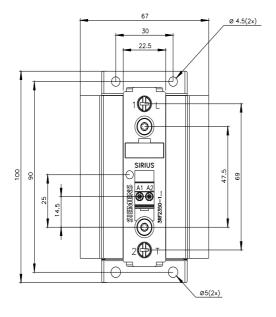
Cax online generator

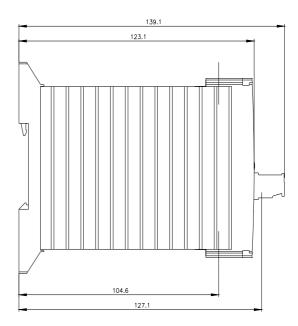
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2350-1BA06

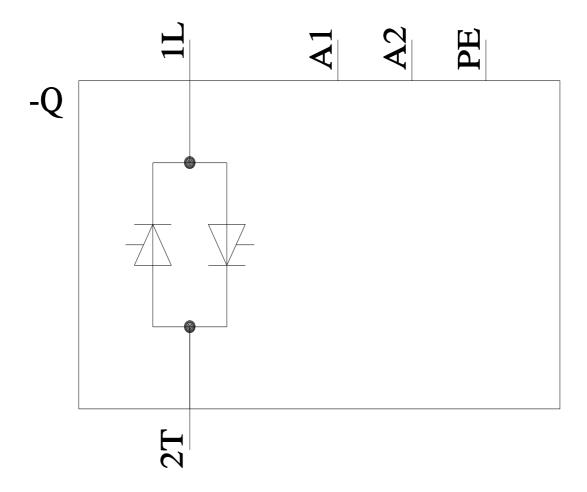
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2350-1BA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2350-1BA06&lang=en







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