## **SIEMENS**

Data sheet 3RF23 30-1BA06



SEMI-COND. CONTACTOR 3RF2,1-PH. AC 51 30A / AC15 15A 40 DEG. C 48-600 V / 24 V DC INSTANTANEOUS SWITCHING

General technical data:	
product brand name	SIRIUS
Product designation	solid-state contactor
Product function	instantaneous switching
Number of poles for main current circuit	1
Protection class IP	IP20
Product designation _1 of the accessories that can be ordered	terminal cover
Manufacturer article number _1 of the accessories that can be ordered	3RF2900-3PA88
Product designation _2 of the accessories that can be ordered	power regulator
Manufacturer article number _2 of the accessories that can be ordered	3RF2950-0HA16
Product designation _3 of the accessories that can be ordered	converter
Manufacturer article number _3 of the accessories that can be ordered	3RF2900-0EA18
Product designation _4 of the accessories that can be ordered	load monitoring

that can be ordered Product designation _5 of the accessories that can be ordered  Manufacturer article number _5 of the accessories that can be ordered  Ambient temperature  • during operation • during storage • during storage  • during storage	Manufacturer article number _4 of the accessories		3RF2950-0GA16
be ordered  Manufacturer article number_5 of the accessories that can be ordered  Amblent temperature  • during operation • during storage  Installation attitude at height above sea level maximum  Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7  Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750  Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750  Equipment marking acc. to DIN 41848-2 Number of NC contacts for auxiliary contacts Number of NC contacts for auxiliary contacts 0 Number of NC contacts for auxiliary contacts 0 Number of NC contacts for auxiliary contacts 0 Number of NC contacts for main contacts 0 Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value 0 perating current minimum  Operating current minimum  Operating rurent minimum  Operating rurent minimum  Operating range relative to the operating voltage at AC • at 50 Hz Rated value  • at 60 Hz Rated value  Insulation voltage at AC • at 50 Hz • at 60 Hz	that can be ordered		
that can be ordered Ambient temperature  • during operation • during storage Installation altitude at height above sea level maximum  Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN 186 161346-2 Number of NC contacts for auxiliary contacts Number of NC contacts for auxiliary contacts Number of NC contacts for auxiliary contacts Number of NC contacts for main contacts Number of NC contacts for main contacts  Number of NC contacts for main contacts Operating current • at AC-1 at 400 V Rated value • at AC-51 Rated value Operating urrent minimum Operating urrent minimum  Operating runge relative to the operating voltage at AC • at 50 Hz Rated value  • at 60 Hz Rated value Operating frequency Rated value  • at 60 Hz			load monitoring, basis
Ambient temperature  • during operation • during storage    C	Manufacturer article number _5 of the accessories		3RF2920-0FA08
during operation     during storage     during storage     during storage     during storage     during storage     during storage     m     lostaliation altitude at height above sea level     maximum     Vibration resistance acc. to IEC 60068-2-6     Shock resistance acc. to IEC 60068-2-7     Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750     Equipment marking acc. to DIN EN 61346-2     Number of NC contacts for auxiliary contacts     Number of NC contacts for main contacts     Number of NC contacts for main contacts     Operating current     at AC-1 stated value     at AC-1 stated value     A 30     Operating current minimum     A 30     Operating voltage at AC     at 50 Hz Rated value     at 60 Hz Rated value     v 48 600     Operating requency Rated value     at 60 Hz Rated value     operating requency Rated value     at 60 Hz     at 60 Hz     operating requency Rated value     linsulation voltage Rated value     v 40 660     linsulation voltage at the thyristor for main contacts     maximum permissible     Reverse current of the thyristor     lerund states and so the size of the size	that can be ordered		
during storage     Installation altitude at height above sea level maximum  Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Equipment marking acc. to DIN 40719 extended according to IEC 2042-acc. to IEC 750 Equipment marking acc. to DIN 80719 extended according to IEC 2042-acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NC contacts for auxiliary contacts Number of NC contacts for auxiliary contacts Number of NC contacts for main contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  Operating current  • at AC-1 at 400 V Rated value • at AC-51 Rated value • at AC-51 Rated value  • at 50 Hz Rated value  V 48 600 Operating voltage at AC  • at 50 Hz Rated value  V 48 600 Operating range relative to the operating voltage at AC  • at 50 Hz • at 60 Hz  v 40 660 Operating frequency Rated value  V 40 660  Insulation voltage Rated value  V 40 660  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  °C 40  Active power loss total typical Surge current resistance Rated value  A 600	Ambient temperature		
Installation altitude at height above sea level maximum 1000 maximum 10000 maximum 1000 maximum 10000 maximum 10000 maximum 10000 maximum 10000 maximum 10000 maximum 10000 ma	during operation	°C	-25 <b>+</b> 60
maximum  Vibration resistance acc. to IEC 60068-2-6  Shock resistance acc. to IEC 60068-2-27  Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750  Equipment marking acc. to DIN EN 61346-2  Number of NC contacts for auxiliary contacts  Number of NC contacts for auxiliary contacts  Number of CO contacts for auxiliary contacts  Number of NC contacts for main contacts  1  Number of NC contacts for main contacts  0  Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  A 30  Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  • at 60 Hz Rated value  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  V 40 660  Operating frequency Rated value  Hz  50 60  Insulation voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  °C  40  Active power loss total typical  Surge current resistance Rated value  A 600	during storage	°C	-55 <b>+</b> 80
Shock resistance acc. to IEC 60068-2-27  Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750  Equipment marking acc. to DIN 61346-2  Rumber of NC contacts for auxiliary contacts  Number of NC contacts for auxiliary contacts  Number of NC contacts for auxiliary contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  Operating frequency Rated value  Insulation voltage Rated value  V 40 660  Operating frequency Rated value  Rate of voltage rise at the thyristor for main contacts  maximum permissible  Reverse current of the thyristor  Active power loss total typical  Surge current resistance Rated value  A 600  V 33  Surge current resistance Rated value  A 600	-	m	1 000
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of NO contacts for main contacts Number of NO contacts for main contacts Number of NO contacts for main contacts Operating current  • at AC-1 at 400 V Rated value A 30 Operating current minimum A 500 Operating vortage at AC • at 50 Hz Rated value V 48 600 Operating range relative to the operating voltage at AC • at 60 Hz Acceptage at Ac • at 60 Hz • at 60 Hz  Operating frequency Rated value Insulation voltage Rated value V 40 660 Operating frequency Rated value Notage Rated value V 40 660 Derating frequency Rated value Notage Rated value Notage Rated value V 40 660 Operating frequency Rated value Notage Rated	Vibration resistance acc. to IEC 60068-2-6		2g
according to IEC 204-2 acc. to IEC 750  Equipment marking acc. to DIN EN 61346-2 Number of NC contacts for auxiliary contacts Number of NC contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts  Number of NC contacts for auxiliary contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  1 Number of NC contacts for main contacts 0 Operating current  • at AC-1 at 400 V Rated value A 30 Operating current minimum mA 500 Operating current minimum mA 500 Operating voltage at AC • at 50 Hz Rated value • at 60 Hz Rated value V 48 600 Operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz Operating frequency Rated value Hz 50 60 Insulation voltage Rated value V 40 660 Insulation voltage rise at the thyristor for main contacts maximum permissible Blocking voltage at the thyristor for main contacts maximum permissible Reverse current of the thyristor Certage current resistance Rated value Active power loss total typical Surge current resistance Rated value A 600	Shock resistance acc. to IEC 60068-2-27		15g / 11 ms
Number of NC contacts for auxiliary contacts  Number of NO contacts for auxiliary contacts  Number of CO contacts for auxiliary contacts  Number of NO contacts for main contacts  Number of NC contacts for main contacts  Number of NC contacts for main contacts  1 Number of NC contacts for main contacts  Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  V 48 600  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  V 40 660  Operating frequency Rated value  Hz  Operating frequency Rated value  V 40 660  Rate of voltage rise at the thyristor for main contacts maximum permissible  Biocking voltage at the thyristor for main contacts maximum permissible  Biocking voltage at the thyristor for main contacts maximum permissible  Peretring temperature  C 40  Active power loss total typical  Surge current resistance Rated value  A 600			К
Number of NO contacts for auxiliary contacts  Number of CO contacts for auxiliary contacts  0    Main circuit:	Equipment marking acc. to DIN EN 61346-2		Q
Number of CO contacts for auxiliary contacts    Main circuit:   Number of NO contacts for main contacts   1   0   0   0   0   0   0   0   0   0	Number of NC contacts for auxiliary contacts		0
Number of NO contacts for main contacts  Number of NC contacts for main contacts  Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  V 48 600  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  V 40 660  Operating frequency Rated value  Hz  So 60  Insulation voltage Rated value  V 600  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor  Reverse current of the thyristor  Derating temperature  °C  40  Active power loss total typical  Surge current resistance Rated value  A  30  4 30  4 30  4 40  4 50  4 40  4 50  4 600	Number of NO contacts for auxiliary contacts		0
Number of NO contacts for main contacts  Number of NC contacts for main contacts  Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  Operating current minimum  MA  Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  V  40 660  Operating frequency Rated value  Hz  Operating frequency Rated value  Hz  So 60  Insulation voltage Rated value  Blocking voltage at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor  Reverse current of the thyristor  Derating temperature  C  Active power loss total typical  Surge current resistance Rated value  O  O  O  O  O  O  O  O  O  O  O  O  O	Number of CO contacts for auxiliary contacts		0
Number of NC contacts for main contacts  Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  Operating frequency Rated value  V 40 660  Operating frequency Rated value  Insulation voltage Rated value  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Active power loss total typical  Surge current resistance Rated value  A 30  A 30  A 30  A 30  A 40  A 500  A 40  A 500  A 500  Operating voltage at AC  V 48 600  V 48 600  A 1 00  Operating frequency Rated value  V 600  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Active power loss total typical  Surge current resistance Rated value  A 600	Main circuit:		
Operating current  • at AC-1 at 400 V Rated value  • at AC-51 Rated value  Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  V 48 600  Operating range relative to the operating voltage at AC  • at 50 Hz  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  Operating frequency Rated value  Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor  Reverse current of the thyristor  Derating temperature  A 30	Number of NO contacts for main contacts		1
at AC-1 at 400 V Rated value at AC-51 Rated value A 30  Operating current minimum  Operating voltage at AC  at 50 Hz Rated value V 48 600  Operating range relative to the operating voltage at AC  at 50 Hz Rated value V 40 660  Operating range relative to the operating voltage at AC  at 50 Hz AC  at 50 Hz V 40 660  Operating frequency Rated value Hz 50 60  Insulation voltage Rated value Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  C 40  Active power loss total typical  Surge current resistance Rated value  A 600	Number of NC contacts for main contacts		0
at AC-51 Rated value     A 30     Operating current minimum	Operating current		
Operating current minimum  Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  Operating frequency Rated value  V  V  V  V  V  V  V  V  V  V  V  V  V	• at AC-1 at 400 V Rated value	Α	30
Operating voltage at AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  Operating frequency Rated value  Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  ° C  Active power loss total typical  V 48 600  V 48 600  V 40 660  V 40 660  V 40 660  V 1 600  Active power loss total typical  A 600	• at AC-51 Rated value	Α	30
at 50 Hz Rated value  at 60 Hz Rated value  V 48 600  Operating range relative to the operating voltage at AC  at 50 Hz  at 60 Hz  V 40 660  Operating frequency Rated value  Hz 50 60  Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  C 40  Active power loss total typical  Surge current resistance Rated value  V 48 600  V 48 600	Operating current minimum	mA	500
at 60 Hz Rated value  Operating range relative to the operating voltage at AC      at 50 Hz      at 60 Hz      vusual for at 60 Hz  Operating frequency Rated value  Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature      vusual for a f	Operating voltage at AC		
Operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  Operating frequency Rated value  Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  ° C  Active power loss total typical  Surge current resistance Rated value  V 40 660  V 40  Active power loss total typical  A 600	• at 50 Hz Rated value	V	48 600
AC          • at 50 Hz         • at 60 Hz         • at 60 Hz         • AC Max Maximum permissible         Blocking voltage at the thyristor for main contacts maximum permissible         Reverse current of the thyristor	• at 60 Hz Rated value	V	48 600
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>V</li> <li>40 660</li> <li>Operating frequency Rated value</li> <li>Hz</li> <li>50 60</li> <li>Insulation voltage Rated value</li> <li>V</li> <li>600</li> <li>Rate of voltage rise at the thyristor for main contacts maximum permissible</li> <li>Blocking voltage at the thyristor for main contacts</li> <li>maximum permissible</li> <li>Reverse current of the thyristor</li> <li>mA</li> <li>10</li> <li>Derating temperature</li> <li>°C</li> <li>40</li> <li>Active power loss total typical</li> <li>Surge current resistance Rated value</li> <li>V</li> <li>40 660</li> <li>40 660</li> </ul>			
• at 60 Hz V 40 660   Operating frequency Rated value Hz 50 60   Insulation voltage Rated value V 600   Rate of voltage rise at the thyristor for main contacts maximum permissible V/μs 1 000   Blocking voltage at the thyristor for main contacts maximum permissible V 1 600   Reverse current of the thyristor mA 10   Derating temperature °C 40   Active power loss total typical W 33   Surge current resistance Rated value A 600		\	40 000
Operating frequency Rated value  Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts maximum permissible  Reverse current of the thyristor  Derating temperature  Active power loss total typical  Surge current resistance Rated value  A 50 60  V 600  V 1000  T 10			
Insulation voltage Rated value  Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts with maximum permissible  Reverse current of the thyristor  Derating temperature  C 40  Active power loss total typical  Surge current resistance Rated value  V 600  V/µs 1 000  MA 10  V 1 600  MA 10  Derating temperature  C 40  Active power loss total typical  A 600			
Rate of voltage rise at the thyristor for main contacts maximum permissible  Blocking voltage at the thyristor for main contacts waximum permissible  Reverse current of the thyristor mA 10  Derating temperature °C 40  Active power loss total typical W 33  Surge current resistance Rated value A 600			
maximum permissible  Blocking voltage at the thyristor for main contacts waximum permissible  Reverse current of the thyristor mA 10  Derating temperature °C 40  Active power loss total typical W 33  Surge current resistance Rated value A 600			
maximum permissible  Reverse current of the thyristor  Derating temperature  °C 40  Active power loss total typical  Surge current resistance Rated value  A 600	maximum permissible		
Derating temperature  °C 40  Active power loss total typical  Surge current resistance Rated value  A 600	•	V	1 600
Active power loss total typical W 33  Surge current resistance Rated value A 600	Reverse current of the thyristor	mA	10
Surge current resistance Rated value A 600	Derating temperature	°C	40
	Active power loss total typical	W	33
I2t value maximum A <sup>2</sup> ·s 1 800		Α	600
	I2t value maximum	A²-s	1 800

Control circuit/ Control:		DO.
Type of voltage of the control supply voltage		DC
Control supply voltage 1		
• at DC		
Initial rated value	V	15
— Final rated value	V	24
Control supply voltage		
• at DC Full-scale value for signal<0> recognition	V	5
Control current		
<ul> <li>at minimum control supply voltage</li> </ul>		
— at DC	mA	2
• at DC Rated value	mA	15
Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard
		mounting rail
Mounting type Side-by-side mounting		Yes
Design of the thread of the screw for securing the equipment		M4
Tightening torque of the screw for securing the equipment	N·m	1.5
Width	mm	45
Height	mm	100
Depth	mm	156
Connections/ Terminals:		
Type of electrical connection for main current circuit		screw-type terminals
Design of the thread of the connection screw for main contacts		M4
Tightening torque for main contacts with screw-type terminals	N·m	2 2.5
Tightening torque [lbf·in] for main contacts with screw-type terminals	lbf∙in	18 22
Type of connectable conductor cross-section 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 mm²), 2x (2.5 6 mm²), 1x 10 mm²
Type of connectable conductor cross-section		
• for AWG conductors		
— for main contacts		2x (14 10)

— for auxiliary and control contacts

Type of connectable conductor cross-section for

auxiliary and control contacts

1x (AWG 20 ... 12)

• solid		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
• finely stranded		,, (c.c <u></u>
with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
·		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
— without core end processing		1% (0.5 2.5 11111 ), 2% (0.5 1.0 11111 )
Connectable conductor cross-section		
• for main contacts	2	45.0
<ul> <li>— single or multi-stranded</li> </ul>	mm²	1.5 6
— finely stranded		
<ul> <li>— with core end processing</li> </ul>	mm²	1 10
<ul> <li>for auxiliary and control contacts</li> </ul>		
— solid	mm²	0.5 2.5
— finely stranded		
<ul> <li>— with core end processing</li> </ul>	mm²	0.5 2.5
<ul> <li>— without core end processing</li> </ul>	mm²	0.5 2.5
AWG number as coded connectable conductor cross		
section		
• for main contacts		10 14
<ul> <li>for auxiliary and control contacts</li> </ul>		20 12
Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Design of the thread of the connection screw of the auxiliary and control contacts		M3
Wire stripping length of the cable		
• for main contacts	mm	7
<ul> <li>for auxiliary and control contacts</li> </ul>	mm	7
Tightening torque for auxiliary and control contacts with screw-type terminals	N·m	0.5 0.6
Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals	lbf∙in	4.5 5.3

## Certificates/ approvals:

General Product Approval EMC Declaration of Conformity Certificates











Typprüfbescheinigu ng/Werkszeugnis

Test Certificates	other
spezielle	Umweltbestätigung

Prüfbescheinigunge

n

## Further information

Short-circuit protection, design of the fuse link

https://www.automation.siemens.com/cd-static/material/info/3RF23\_eng.pdf

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

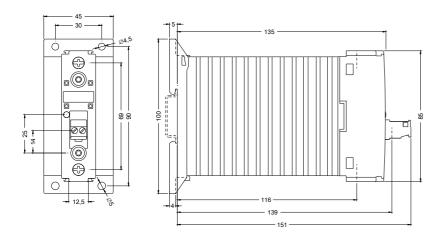
Cax online generator

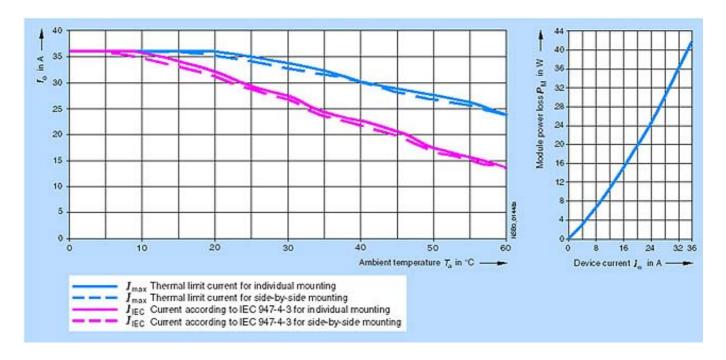
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF23301BA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RF23301BA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF23301BA06&lang=en





last modified: 17.07.2015