## SIEMENS

## **Product data sheet**

## 3RA6250-2DB33



SIRIUS, COMPACT STARTER, REVERSING STARTER 690 V, 24 V AC/DC, 50 ... 60 HZ, 3 ... 12 A, IP20, MAIN CIRCUIT CONNECTION: PLUG-IN, W/O TERMINALS, AUXILIARY CIRCUIT CONNECTION: SPRING-LOADED TERMINAL

General technical data:		
Product brand name		SIRIUS
product designation		compact starter
Design of the product		reversing feeder
Trip class		CLASS 10 and 20 adjustable
Product function		
<ul> <li>control circuit interface to parallel wiring</li> </ul>		Yes
bus-communication		No
short circuit protection		Yes
control circuit interface with IO link		No
Type of assignement		continous operation according to IEC 60947-6-2
Protection class IP		IP20
Degree of pollution		3
Built in orientation / recommended		vertical, on horizontal standard mounting rail
Installation altitude / at a height over sea level		
• maximum	m	2,000
Ambient temperature		
during storage	°C	-55 80
during operating	°C	-20 60
during transport	°C	-55 80

%	10 90
%	
	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
V	6,000
	10 V/m
V	690
	4 kV main contacts, 2 kV auxiliary contacts
	2 kV main contacts, 1 kV auxiliary contacts
	4 kV main contacts, 2 kV auxiliary contacts
_	
V	400
V	300
V	250
_	
	Q
	Q
V	690
_	3
А	3 12
_	12 x le
_	10 x le
kW	5.5
kW	5.5
kW	7.5
kW	5.5
1/h	750
1/h	250
	V V V V V V V V

Off-load operating frequency	1/h	3,600
Mechanical operating cycles as operating time		
of the main contacts / typical		10,000,000
<ul> <li>of the auxiliary contacts / typical</li> </ul>		10,000,000
<ul> <li>of the signal contacts / typical</li> </ul>		10,000,000

## Control circuit:

	AC
V	24
V	24
V	24
W	2.8
W	2.9
ms	50
ms	70
	V V W W ms

Auxiliary circuit:		
Product extension		
auxiliary switch		Yes
Number of NC contacts		
for auxiliary contacts		0
Number of NO contacts		
for auxiliary contacts		2
• of the non-delayed short-circuit release / for alarm contact		1
Number of changeover contacts / of the current-dependent overload release / for alarm contact		1
Operating current / of the auxiliary contacts / at AC-12		
• maximum	А	10
Electrical switching cycle as operating time / of the auxiliary contacts		
• at AC-15 / at 6 A / at 230 V / typical		500,000
• at DC-13 / at 6 A / at 24 V / typical		100,000
Electrical switching cycle as operating time / of the signal contacts		
• at AC-15 / at 6 A / at 230 V / typical		500,000
• at DC-13 / at 6 A / at 24 V / typical		100,000

Design of the fuse link / for short-circuit protection of the		
• required		fuse gL/gG: 10 A
• required		
Installation/mounting/dimensions:		
Type of mounting		screw and snap-on mounting
Width	mm	90
Height	mm	191
Depth	mm	165
Built in orientation		any
Connections:		
Product function		
<ul> <li>removable terminal for main circuit</li> </ul>		Yes
removable terminal for auxiliary and control circuit		Yes
Design of the electrical connection		
for main current circuit		plug-in without terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (1.5 6 mm²), 1x 10 mm²
finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (1.5 6 mm²)
<ul> <li>without conductor final cutting</li> </ul>		2x (1.5 6 mm²)
for auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
finely stranded		
<ul> <li>with conductor end processing</li> </ul>		2x (0.25 1.5 mm²)
<ul> <li>without conductor final cutting</li> </ul>		2x (0.25 1.5 mm²)
for AWG conductors		
for main contacts		2x (16 10), 1x 8
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 16)
Certificates/approvals:		
Verification of suitability		IEC / EN 60947-6-2

General Product	Approval			Functional Safety / Safety of Machinery	Test Certificates
coc	<b>SP</b> CSA	ROSTEST		other	Manufacturer
Shipping Approva	al			other	
B U R E A U V E R I T A S		PRS	RINA	Manufacturer	other

UL/CSA ratings:	UL/	CSA	ratings:
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yielded mechanical performance (hp) / for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	3
• at 220/230 V / rated value	hp	3
• at 460/480 V / rated value	hp	7.5
• at 575/600 V / rated value	hp	10
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	12
• at 600 V / rated value	А	12
Contact rating designation / for auxiliary contacts / according to UL		contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300

Reliability figures:		
B10 value		3,000,000
Proportion of dangerous failures	%	50
Proportion of dangerous failures / with low demand rate / according to SN 31920	%	40
Protection against electrical shock		finger-safe
Failure rate (FIT value) / with low demand rate / according to SN 31920	FIT	100

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

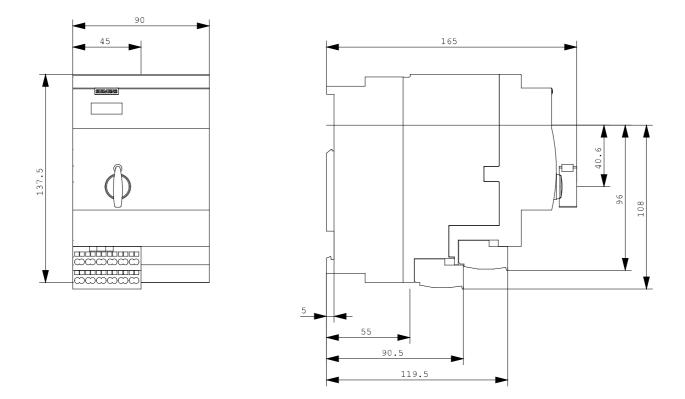
http://www.siemens.com/industrial-controls/mall

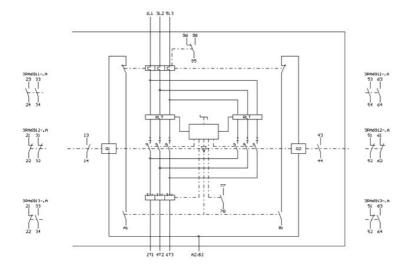
Cax online generator:

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA6250-2DB33/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RA6250-2DB33





last change:

Oct 24, 2011