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		
 control circuit interface to parallel wiring 		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
 of the auxiliary contacts / typical 		10,000,000
 of the signal contacts / typical 		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		
 removable terminal for main circuit 		Yes
removable terminal for auxiliary and control circuit		Yes
Design of the electrical connection		
for main current circuit		plug-in without terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (1.5 6 mm²), 1x 10 mm²
finely stranded		
 with conductor end processing 		2x (1.5 6 mm²)
 without conductor final cutting 		2x (1.5 6 mm²)
for auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
finely stranded		
 with conductor end processing 		2x (0.25 1.5 mm²)
 without conductor final cutting 		2x (0.25 1.5 mm²)
for AWG conductors		
for main contacts		2x (16 10), 1x 8
 for auxiliary contacts 		2x (24 16)
Certificates/approvals:		
Verification of suitability		IEC / EN 60947-6-2

General Product	Approval			Functional Safety / Safety of Machinery	Test Certificates
coc	SP 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)

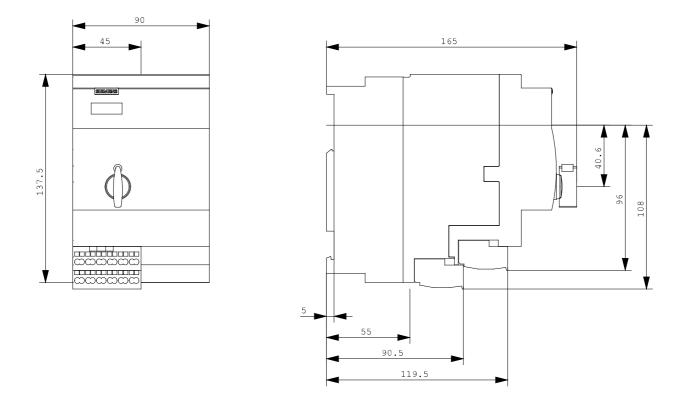
http://www.siemens.com/industrial-controls/mall

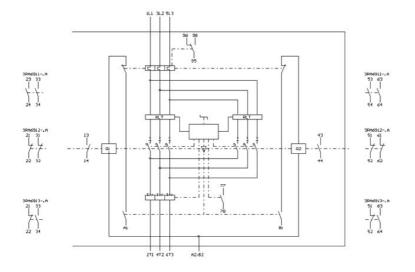
Cax online generator:

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