SIEMENS

Product data sheet

3RA6250-1CB34



SIRIUS, COMPACT STARTER, REVERSING STARTER 690 V, 24 V AC/DC, 50 ... 60 HZ, 1 ... 4 A, IP20, MAIN CIRCUIT CONNECTION: SCREW TERMINAL, AUXILIARY CIRCUIT CONNECTION: PLUG-IN, W/O TERMINALS

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	1 4
_	12 x le
_	10 x le
_	
kW	1.5
kW	2.2
kW	3
W	1,500
1/h	750
1/h	250
	V V V V V V V V V V

Off-load operating frequency		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

Short-circuit:					
Design of the fuse link / for short-circuit protection of the auxiliary switch					
• required		fuse gL/gG: 10 A			
Installation/mounting/dimensions:					
Type of mounting		screw and snap-on mounting			
Width	mm	90			
Height	mm	170			
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		screw-type terminals			
 for auxiliary and control current circuit 		plug-in without 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)			
for auxiliary contacts					
• solid		0.5 4 mm², 2x (0.5 2.5 mm²)			
finely stranded					
with conductor end processing		0.5 2.5 mm², 2x (0.5 1.5 mm²)			
for AWG conductors					
for main contacts		2x (16 10), 1x 8			
for auxiliary contacts		2x (20 14)			
Certificates/approvals:					
Verification of suitability		IEC / EN 60947-6-2			

General Product	Approval			Functional Safety / Safety of Machinery	Test Certificates
cqc	(SA)	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:

yielded mechanical performance (hp) / for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	0.75
• at 220/230 V / rated value	hp	0.75
• at 460/480 V / rated value	hp	2
• at 575/600 V / rated value	hp	3
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	4
• at 600 V / rated value	А	4
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)

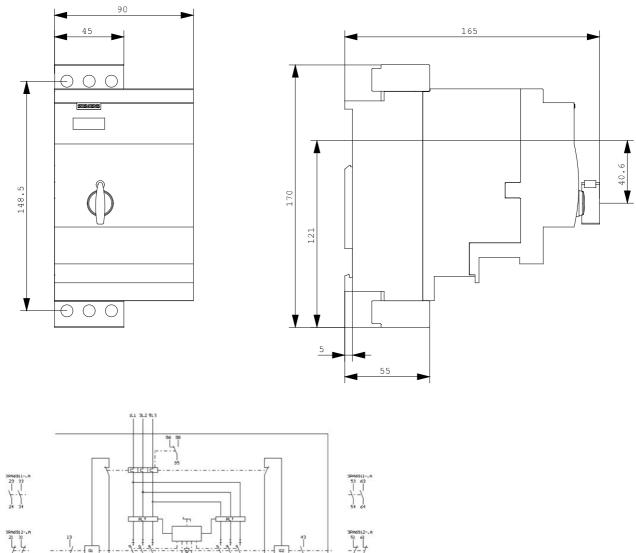
http://www.siemens.com/industrial-controls/mall

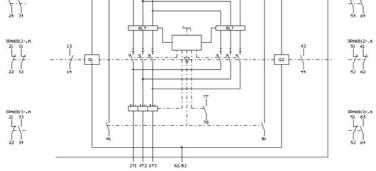
Cax online generator:

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA6250-1CB34/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA6250-1CB34





last change:

Oct 24, 2011