SIEMENS

Product data sheet 3RW3035-1AB14

SIRIUS SOFT STARTER, SIZE S2, 38 A,
18.5 KW / 400 V, AC 200...460 V,
UC 110...230 V, SCREW CONNECTION

General details:		
Product brand name		SIRIUS
Product equipment		
• integrated bridging contact system		Yes
• thyristors		Yes
Product function		
• intrinsic device protection		No
• motor overload protection		No
• evaluation of thermal resistor motor protection		No
• Reset external		No
• adjustable current limitation		No
• inside-delta circuit		No
Product component / Outlet for enine brake		No
Item designation		
• according to DIN EN 61346-2		Q
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		G

Power Electronics:		
Product designation		soft starters for standard applications
Operating current		

• at 40 °C / rated value	A	38
• at 50 °C / rated value	A	32
• at 60 °C / rated value	A	27
Emitted mechanical power / for three-phase servomotors		
• at 230 V / at standard switching / at 40 °C		
• rated value	kW	11
• at 400 V / at standard switching / at 40 °C		
• rated value	kW	18.5
Yielded mechanical performance (hp) / for three-phase servomotors		
• at 200 V / at standard switching		
• at 50 °C / rated value	hp	10
• at 230 V / at standard switching		
• at 50 °C / rated value	hp	10
• at 460 V / at standard switching		
• at 50 °C / rated value	hp	25
Operating frequency		
• rated value	Hz	50 … 60
Relative negative tolerance / of the operating frequency	%	-10
Relative positive tolerance / of the operating frequency	%	10
Operating voltage / with standard circuit / rated value	V	200 … 460
Relative negative tolerance / of the operating voltage / with standard circuit	%	-10
Relative positive tolerance / of the operating voltage / with standard circuit	%	10
Minimum load in % of I_M	%	9
Continuous operating current in % of I_e / at 40°C	%	100

Control electronics:		
Type of voltage / of the controlled supply voltage		AC/DC
control supply voltage frequency / 1 / rated value	Hz	50
control supply voltage frequency / 2 / rated value	Hz	60
Relative negative tolerance / of the control supply voltage frequency	%	-10
Relative positive tolerance / of the control supply voltage frequency	%	10
Control supply voltage / 1 / at 50 Hz / for AC	V	110 … 230
Control supply voltage / 1 / at 60 Hz / for AC	V	110 … 230
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-10
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	10

Control supply voltage / 1 / for DC	V	110 … 230
Relative negative tolerance / of the control supply voltage / for DC	%	-10
Relative positive tolerance / of the control supply voltage / for DC	%	10
Design of display / for fault signal		red

Mechanical design:

Size of the engine control device		S2
Width	mm	55
Height	mm	160
Depth	mm	170
Type of fixing/fixation		screw and snap-on mounting
built in orientation		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
distance, to be maintained, to the ranks assembly		
• upwards	mm	60
• sidewards	mm	30
• downwards	mm	40
Altitude of installation site / at a height over sea level	m	5,000
Cable length / maximum	m	100
Number of poles / for main current circuit		3

Electrical connections:

design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Number of NC contacts / for auxiliary contact		0
Number of NO contacts / for auxiliary contact		2
Number of change-over switches / for auxiliary contact		0
Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point		
• solid		2x (1.5 ... 16 mm2)
• finely stranded / with wire end processing		0.75 ... 25 mm2
• stranded		0.75 ... 35 mm2
Type of the connectable conductor cross section / for main contacts / for box terminal / when using the back clamping point		
• solid		2x (1.5 ... 16 mm2)
• finely stranded / with wire end processing		1.5 ... 25 mm2

• strand ed		1.5 ... 35 mm2
Type of the connectable conductor cross section / for main contacts / for box terminal / when using both clamping points		
• solid		2x (1.5 ... 16 mm2)
• finely st randed / with wire end processing		2x (1.5 ... 16 mm2)
• stranded		2x (1.5 ... 25 mm2)
Type of the connectable conductor cross section / for AWG conductors / for main contacts / for box terminal		
• when using the back cl amping point		16 ... 2
• when using the front c lamping point		18 ... 2
• when using both clampi ng points		2x (16 ... 2)
Type of connectable conductor cross section		
• for auxiliary contacts		
• solid		2x (0.5 ... 2.5 mm2)
• finely stranded / with wire end processing		2x (0.5 ... 1.5 mm2)
• for AWG conductors / for auxiliary contacts		2x (20 ... 14)
• finely stranded / with wire end processi ng		2x (20 ... 16)

Ambient conditions:

Ambient temperature		
• during the operating phase	°C	-25 … 60
• during storage	°C	-40 … 80
Derating temperature	°C	40
Protection class IP		IP20

Safety:

Proportion of dangerous failures		
• with high demand rate / according to SN 31920	%	50
• with low demand rate / according to SN 31920	%	20
Mean time to failure (MTTF) / with high demand rate		
• according to SN 31920	a	154
T1 value / for proof test interval or service life		
• according to IEC 61508	a	20

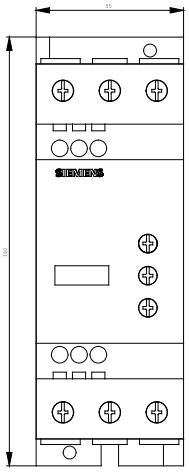
Further information:

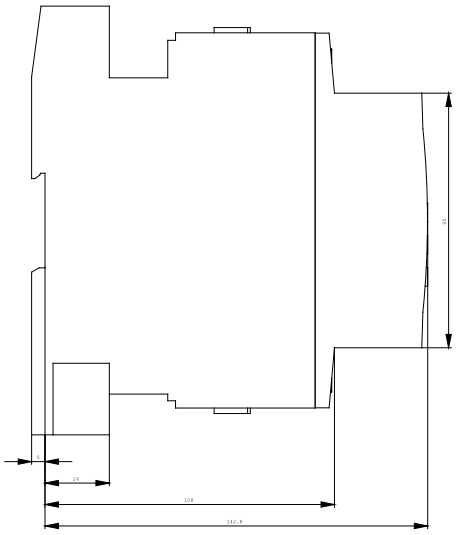
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

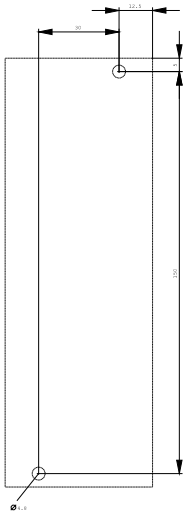
Global Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RW3035-1AB14/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3035-1AB14







last change: Jul 9, 2010