SIEMENS

Data sheet 3RW30 44-1AB14

SIRIUS SOFT STARTER, SIZE S3, 63 A, 30 KW / 400 V, AC 200...460 V, UC 110...230 V, SCREW CONNECTION

General technical data:		
product brand name	SIRIUS	
Product feature		
 integrated bypass contact system 	Yes	
Thyristors	Yes	
Product function		
 Intrinsic device protection 	No	
 motor overload protection 	No	
 Evaluation of thermistor motor protection 	No	
External reset	No	
Adjustable current limitation	No	
• inside-delta circuit	No	
Product component Motor brake output	No	
Equipment marking acc. to DIN EN 61346-2	Q	
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G	

Power Electronics:		
Product designation		soft starters for standard applications
Operating current		
● at 40 °C rated value	Α	63
● at 50 °C rated value	Α	54
• at 60 °C rated value	Α	46
Mechanical power output for three-phase motors		
● at 230 V		
 at standard circuit at 40 °C rated value 	W	18 500
● at 400 V		
— at standard circuit at 40 °C rated value	W	30 000
yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value	hp	15
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit Rated value	V	200 460

Relative negative tolerance of the operating voltage at standard circuit	%	-10
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	9
Continuous operating current [% of le] at 40 °C	%	100

Control electronics:		
Type of voltage of the control 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 AC at 50 Hz	V	110 230
Control supply voltage 1 at AC at 60 Hz	V	110 230
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Control supply voltage 1 at DC	V	110 230
Relative negative tolerance of the control supply voltage at DC	%	-15
Relative positive tolerance of the control supply voltage at DC	%	10
Display version for fault signal		red

Mechanical data:		
Size of engine control device		S3
Width	mm	70
Height	mm	170
Depth	mm	190
Mounting type		screw and snap-on mounting
Mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
Required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	30
downwards	mm	40
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	100
Number of poles for main current circuit		3

Connections/ Terminals:

Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Number of NC contacts for auxiliary contacts	0
Number of NO contacts for auxiliary contacts	2
Number of CO contacts for auxiliary contacts	0
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point	
• solid	2x (2.5 16 mm²)
 finely stranded with core end processing 	2.5 35 mm²
• stranded	4 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point	
• solid	2x (2.5 16 mm²)
 finely stranded with core end processing 	2.5 50 mm ²
• stranded	10 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points	
• solid	2x (2.5 16 mm²)
 finely stranded with core end processing 	2x (2.5 35 mm²)
• stranded	2x (10 50 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal	
 using the back clamping point 	10 2/0
 using the front clamping point 	10 2/0
using both clamping points	2x (10 1/0)
Type of connectable conductor cross-section for DIN cable lug for main contacts	
• finely stranded	2 x (10 50 mm²)
• stranded	2x (10 70 mm²)
Type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 Type of connectable conductor cross-sections 	2x (7 1/0)
at AWG conductors for main contacts	
Type of connectable conductor cross-sections	2x (20 14)
at AWG conductors for auxiliary contacts	
Ambient conditions:	
Ambient temperature	

during operation	°C	-25 + 60
during storage	°C	-40 + 80
Derating temperature	°C	40
Protection class IP		IP20

Certificates/ approvals:

General Product Approval EMC Declaration of Conformity Certificates











spezielle
Prüfbescheinigunge
n

other

Umweltbestätigung sonstig

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 220/230 V		
— at standard circuit at 50 °C Rated value	hp	20
● at 460/480 V		
— at standard circuit at 50 °C Rated value	hp	40

Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

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=3RW30441AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW30441AB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW30441AB14&lang=en

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