SIEMENS

Data sheet 3RW30 36-1BB14

SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °C 200-480 V AC, 110-230 V AC/DC Screw terminals



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		
Reference identifier acc. to DIN EN 61346-2	Q		
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G		

Product designation

Soft starter

Operating current			
• at 40 °C rated value	Α	45	
• at 50 °C rated value	Α	42	
• at 60 °C rated value	Α	39	
Mechanical power output for three-phase motors			
• at 230 V			
— at standard circuit at 40 °C rated value	W	11 000	
• at 400 V			
— at standard circuit at 40 °C rated value	W	22 000	
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10	
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 at standard circuit rated value	V	200 480	
Relative negative tolerance of the operating voltage at standard circuit	%	-15	
Relative positive tolerance of the operating voltage at standard circuit	%	10	
Minimum load [%]	%	10	
Continuous operating current [% of le] at 40 °C	%	115	
Power loss [W] at operating current at 40 °C during	W	6	
operation typical			
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	%	-10	

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	%	-10		
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	%	-10		
Relative positive tolerance of the control supply voltage at DC	%	10		

Display version for fault signal		red
Mechanical data		
Size of engine control device		S2
Width	mm	55
Height	mm	160
Depth	mm	170
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
Wire length maximum	m	300
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		1
Number of CO contacts for auxiliary contacts		0
Type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2x (1.5 16 mm²)
 finely stranded with core end processing 		1.5 25 mm²
• stranded		1.5 35 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
• finely stranded with core end processing		1.5 25 mm²
• stranded		1.5 35 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (1.5 16 mm²)
• finely stranded with core end processing		2x (1.5 16 mm²)
• stranded		2x (1.5 25 mm²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		

 using the back clamping point 	16 2	
 using the front clamping point 	18 2	
 using both clamping points 	2x (16 2)	
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 at AWG conductors		
• for auxiliary contacts	2x (20 14)	
 for auxiliary contacts finely stranded with core end processing 	2x (20 16)	

Ambient conditions				
Installation altitude at height above sea level	m	5 000		
Environmental category				
● during transport acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
• during storage acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
Ambient temperature				
during operation	°C	-25 + 60		
during storage	°C	-40 +80		
Derating temperature	°C	40		
Protection class IP		IP00		

Certificates/approvals

General Product Approval	EMC	Declaration of
		Conformity













Test Certificates		other		Railway	
Type Test Certific-	Special Test Certi-	Miscellaneous	Confirmation	Vibration and Shock	
ates/Test Report	ficate				

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	15
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	30
Contact rating of auxiliary contacts according to UL		B300 / R300

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3036-1BB14

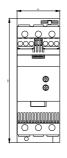
Cax online generator

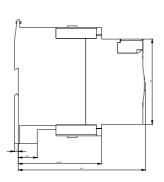
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3036-1BB14

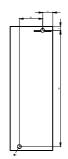
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

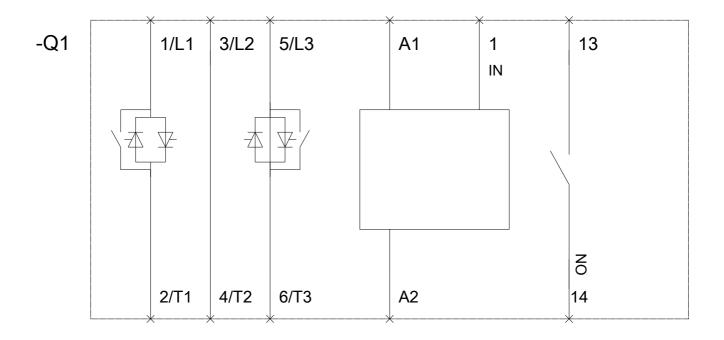
https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3036-1BB14&lang=en









last modified: 10/23/2018