SIEMENS

Data sheet 3RW30 36-1BB04

SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 $^{\circ}$ C 200-480 V AC, 24 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 operation typical	W	6
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 rated value	V	24
• at 60 Hz rated value	V	24
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 rated value	V	24
Relative negative tolerance of the control supply	%	-10

voltage at DC

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=3RW3036-1BB04

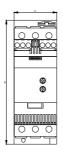
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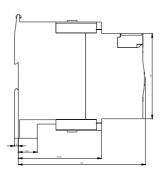
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW}3036-1BB04$

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

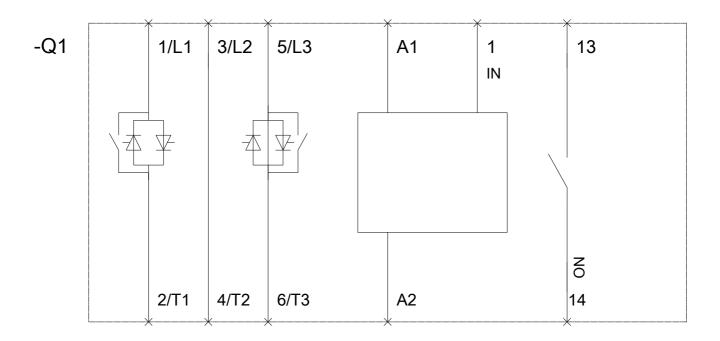
https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3036-1BB04&lang=en









last modified: 10/31/2018