SIEMENS

Data sheet

3RW3036-1BB04



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product designation		Soft starter
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
insulation voltage rated value	V	600
degree of pollution	-	3, acc. to IEC 60947-4-2
blocking voltage of the thyristor maximum	V	1 600
reference code according to EN 61346-2	-	Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
operational current		
• at 40 °C rated value	А	45
 at 50 °C rated value 	А	42
 at 60 °C rated value 	А	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	11
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	22
yielded mechanical performance [hp] for 3-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 operational current at 40 °C during		6
operation typical	٧V	U C
Control circuit/ Control		
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 50 Hz	%	-10
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
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 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
fastening method		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 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)
		2x (1.5 16 mm²) 1.5 25 mm²
• solid		· · · ·
solidfinely stranded with core end processing		1.5 25 mm²
 solid finely stranded with core end processing stranded type of connectable conductor cross-sections for main		1.5 25 mm²
solid inely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		1.5 25 mm ² 1.5 35 mm ²

type of connectable conc						
cables for main contacts		is for AWG				
 using the back clam 				16 2		
 using the front clamp 	ping point			18 2		
 using both clamping 	•			2x (16 2)		
type of connectable conc	luctor cross-section	s for auxiliary				
contacts						
 solid 				2x (0.5 2.5 mn		
 finely stranded with 	core end processing			2x (0.5 1.5 mn	1 ²)	
type of connectable conc cables	luctor cross-section	is for AWG				
 for auxiliary contacts 	6			2x (20 14)		
 for auxiliary contacts 	finely stranded with	core end		2x (20 16)		
processing Ambient conditions					_	
				5.000		
installation altitude at he	ight above sea level		m	5 000		
environmental category	arding to IEC 60701			0/20 004 004 0	MO (may fall beight 0.2	
during transport acc	÷				2M2 (max. fall height 0.3	
during storage accord	C C			(sand must not g	onal condensation), 1C2 et inside the devices), 1	M4
 during operation acc 	cording to IEC 60721			3S2 (sand must	n of ice, no condensatio not get into the devices)	n), 303 (no sait mist), , 3M6
ambient temperature						
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature			°C	40		
protection class IP on the	e front according to	IEC 60529		IP20		
touch protection on the f	ront according to IE	C 60529		finger-safe, for ve	ertical contact from the f	ront
L/CSA ratings						
yielded mechanical perfo	rmance [hp] for 3-p	hase AC motor				
• at 220/230 V						
— at standard cire	cuit at 50 °C rated val	ue	hp	15		
• at 460/480 V						
— at standard cire	cuit at 50 °C rated val	ue	hp	30		
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contact rating of auxiliary	contacts according	g to UL		B300 / R300		
	contacts according	g to UL		B3007 R300		
contact rating of auxiliary Approvals Certificates General Product Approv		g to UL	-	B3007 R300		
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https://www.siemens.com/ic10

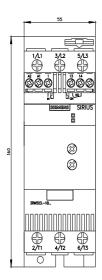
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3036-1BB04

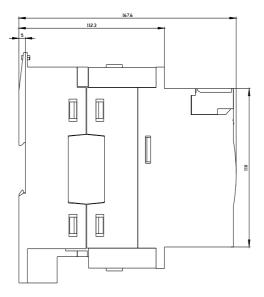
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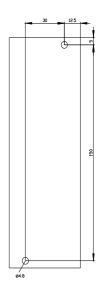
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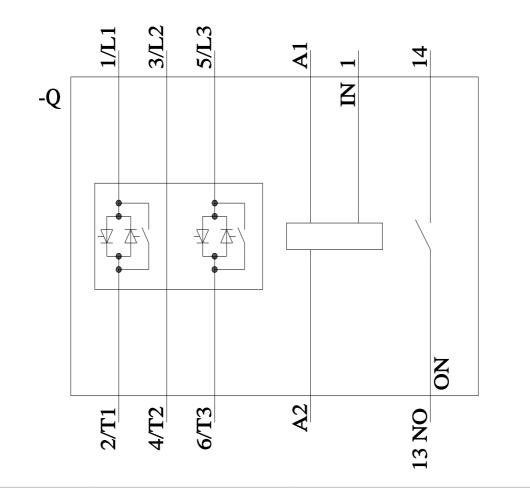
https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-1BB04

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









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