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 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		
reference code acc. to DIN EN 61346-2		Q		
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G		
Power Electronics				
product designation		Soft starter		
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 	W	11 000		
• at 400 V				
— at standard circuit at 40 °C rated value	W	22 000		
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 [0/, of [o] at 40 °C	%	115
continuous operating current [% of le] at 40 °C	- % W	6
power loss [W] at operational current at 40 °C during operation typical	VV	0
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	%	-10
voltage frequency		
relative positive tolerance of the control supply	%	10
voltage frequency		
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	%	-10
voltage at DC relative positive tolerance of the control supply	%	10
voltage at DC		
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 mm ²)
 finely stranded with core end processing 		1.5 25 mm ²
• stranded		1.5 35 mm²
type of connectable conductor cross-sections for		

Test Certificates other			Railway	
)	EHC	RCM	CE EG-Konf.
General Product Approval			EMC	Declaration of Conformity
ertificates/ approvals				
touch protection on the front acc. to IEC 60529		finger-safe, fo	or vertical contact from	the front
protection class IP on the front acc. to IEC 60529		IP20		
derating temperature	°C	40		
• during storage	°C	-40 +80		
during operation	°C	-25 +60		
during operation acc. to IEC 60721 ambient temperature			ation of ice, no conder and must not get into t	
• during storage acc. to IEC 00721			ust not get inside the d	
 during transport acc. to IEC 60721 during storage acc. to IEC 60721 			casional condensation)	,
 environmental category during transport acc. to IEC 60721 		212 201 20	1, 2M2 (max. fall heig	ht 0.3 m)
installation altitude at height above sea level	m	5 000		
nbient conditions		5.000		
processing		27 (20 10)		
 for auxiliary contacts for auxiliary contacts finely stranded with core end 		2x (20 14) 2x (20 16)		
type of connectable conductor cross-sections at AWG cables • for auxiliary contacts		2x (20 14)		
finely stranded with core end processing		2x (0.5 1.5	mm²)	
• solid		2x (0.5 2.5	,	
ype of connectable conductor cross-sections for auxiliary contacts				
 using both clamping points 		2x (16 2)		
using the front clamping point		18 2		
 cables for main contacts for box terminal using the back clamping point 		16 2		
ype of connectable conductor cross-sections at AWG				
• stranded		2x (1.5 25	mm²)	
 finely stranded with core end processing 		2x (1.5 16		
• solid		2x (1.5 16	mm ²)	

UL/CSA ratings				
yielded mechanical performance [hp] for 3-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,...)

https://www.siemens.com/ic10

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

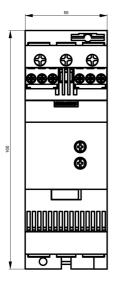
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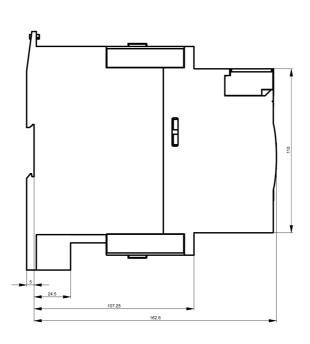
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3036-1BB04

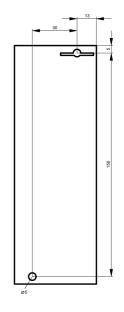
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

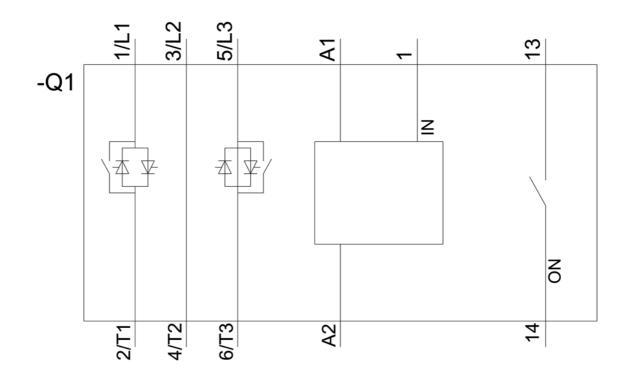
https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-1BB04

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









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