SIEMENS

Data sheet

3RW3046-2BB04

SIRIUS soft starter S3 80 A, 45 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
product brand hane	-	
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 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		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	80
• at 50 °C rated value	А	73
• at 60 °C rated value	А	66
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	22
• at 400 V		
— at standard circuit at 40 °C rated value	kW	45
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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 operation typical	W	12
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

a at CO Lie rated value		24
at 60 Hz rated value relative negative tolerance of the control supply voltage at	V %	24 -15
AC at 50 Hz		
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	%	-15
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	%	-15
DC relative positive tolerance of the control supply voltage at	%	10
DC	_	
display version for fault signal		red
Mechanical data	_	
size of engine control device	-	S3
width	mm	70
height	mm	170
depth	mm	190
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 		spring-loaded 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 (2.5 16 mm²)
 finely stranded with core end processing 		2.5 35 mm ²
stranded		4 70 mm²
type of connectable conductor cross-sections 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-sections 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-sections for AWG cables 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-sections 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 (0.25 2.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)

IIICTAL CLASS -COLLING	for AWG					
luctor cross-sections	NOI AWG					
			2x (7 1/0)			
i			2x (24 14)			
ight above sea level		m	5 000			
ording to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall height 0.3	3 m)	
during storage according to IEC 60721				asional condensation), 1C2 (no salt mist), 1S2 ot get inside the devices), 1M4		
ording to IEC 60721						
		°C	-25 +60			
		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front according to IEC 60529			IP20			
touch protection on the front according to IEC 60529			finger-safe, for	finger-safe, for vertical contact from the front		
al					EMC	
Confirmation			(U) u	EHC	RCM	
у	Test Certificates	s		other		
CE EG-Konf.	Special Test Cer ate	tific-	Type Test Certific- ates/Test Report	Confirmation Misc	ellaneous	
	ght above sea level ording to IEC 60721 ding to IEC 60721 ording to IEC 60721 e front according to II ront according to IEC al Confirmation	ght above sea level ording to IEC 60721 ding to IEC 60721 ording to IEC 60721 e front according to IEC 60529 ront according to IEC 60529 al Confirmation y Test Certificate Special Test Cert ate	ght above sea level m ording to IEC 60721 ding to IEC 60721 ording to IEC 60721 ording to IEC 60721 ording to IEC 60721 ording to IEC 60529 ront according to IEC 60529 ront according to IEC 60529 al Confirmation y Test Certificates y Test Certificates Special Test Certific- ate	ght above sea level m 5 000 prding to IEC 60721 2K2, 2C1, 2S1 ding to IEC 60721 1K6 (only occa (sand must not ording to IEC 60721 ording to IEC 60721 3K6 (no formal 3S2 (sand must ord) ording to IEC 60721 3K6 (no formal 3S2 (sand must ord) or C -25 +60 °C -40 +80 °C 40 e front according to IEC 60529 IP20 ront according to IEC 60529 IP20 ront according to IEC 60529 finger-safe, for al Confirmation v Test Certificates y Test Certificates v Special Test Certific- ate Type Test Certific- ates/Test Report	ght above sea level m 5 000 ght above sea level m 5 000 ording to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 1K6 (only occasional condensation), 1C (sand must not get inside the devices), or 3K6 (no formation of ice, no condensation 3S2 (sand must not get into the devices) ording to IEC 60721 3K6 (no formation of ice, no condensation 3S2 (sand must not get into the devices) ording to IEC 60529 °C -25 +60 ording to IEC 60529 ringer-safe, for vertical contact from the ording to IEC 60529 IP20 ront according to IEC 60529 IP20 ront according to IEC 60529 Ip20 cccc 40 v Test Certificates v Test Certificates other Special Test Certific- ate test Securitie- ate Type Test Certific- ates/Test Report	

Railway

Vibration and Shock

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	25
• at 460/480 V		
- at standard circuit at 50 °C rated value	hp	50
contact rating of auxiliary contacts according to UL		B300 / R300





