SIEMENS

Data sheet 3RW3047-1BB04



SIRIUS soft starter S3 106 A, 55 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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G		
ower Electronics				
product designation		Soft starter		
operational current				
• at 40 °C rated value	Α	106		
• at 50 °C rated value	Α	98		
• at 60 °C rated value	Α	90		
yielded mechanical performance for 3-phase motors				
• at 230 V				
 — at standard circuit at 40 °C rated value 	kW	30		
• at 400 V				
 — at standard circuit at 40 °C rated value 	kW	55		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30		
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	W	21
operation typical		
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	%	-15
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 DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
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		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		2v (2.5 16 mm²)
solid finally attranded with core and processing		2x (2.5 16 mm²)
finely stranded with core end processing stranded		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		0 (0.5
• solid		2x (2.5 16 mm²)
finely stranded with core end processing		2.5 50 mm²
stranded type of connectable conductor cross-sections for main		10 70 mm²
contacts for box terminal using both clamping points		0.405.40.3
• solid		2x (2.5 16 mm²)
finely stranded with core end processingstranded		2x (2.5 35 mm²) 2x (10 50 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		

General Product Approval		EMC
Certificates/ approvals		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529		IP20
derating temperature	°C	40
during storage	°C	-40 +80
during operation	°C	-25 +60
ambient temperature		
during operation according 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 according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
environmental category		
installation altitude at height above sea level	m	5 000
Ambient conditions		
for auxiliary contacts		2x (20 14)
cables • for main contacts		2x (7 1/0)
type of connectable conductor cross-sections for AWG		2.4 (0.0 1.0 11111)
finely stranded with core end processing		2x (0.5 1.5 mm²)
contacts • solid		2x (0.5 2.5 mm²)
type of connectable conductor cross-sections for auxiliary		2.4 (10 10 111111)
stranded		2x (10 70 mm²)
type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded		2 x (10 50 mm²)
using both clamping points		2x (10 1/0)
using the front clamping point		10 2/0
using the back clamping point		10 2/0

CSA



Confirmation







Declaration of Conformity

Test Certificates

other





Type Test Certificates/Test Report

Special Test Certificate

Confirmation Miscellaneous

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	30		
• at 460/480 V				
 — at standard circuit at 50 °C rated value 	hp	75		
contact rating of auxiliary contacts according to UL		B300 / R300		







