SIEMENS

Data sheet 3RW3047-1BB14

SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 °C 200-480 V AC, 110-230 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
Power Electronics		
product designation		Soft starter
operational current		
● at 40 °C rated value	A	106
● at 50 °C rated value	A	98
● at 60 °C rated value	A	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 Ie] at 40 °C	%	115

power loss [W] at operational current at 40 °C during operation typical	W	21
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	V	110 ... 230
control supply voltage 1 at AC at 60 Hz	V	110 ... 230
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	V	110 ... 230
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		
● solid		2x (2.5 ... 16 mm²)
● finely stranded with core end processing		2.5 ... 35 mm²
● 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 mm²
● 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 (0.5 ... 2.5 mm²)
• finely stranded with core end processing		2x (0.5 ... 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• for main contacts		2x (7 ... 1/0)
• for auxiliary contacts		2x (20 ... 14)

Ambient conditions

installation altitude at height above sea level	m	5 000
environmental category		
• during transport according to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
• during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
• 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
ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°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 vertical contact from the front

Certificates/ approvals

General Product Approval | **EMC**

Confirmation

CSA CCC UL EAC RCM

Declaration of Conformity | **Test Certificates** | **other**

CE EG-Konf. UKCA

Type Test Certificates/Test Report | Special Test Certificate | Confirmation | Miscellaneous

Railway

Vibration and Shock

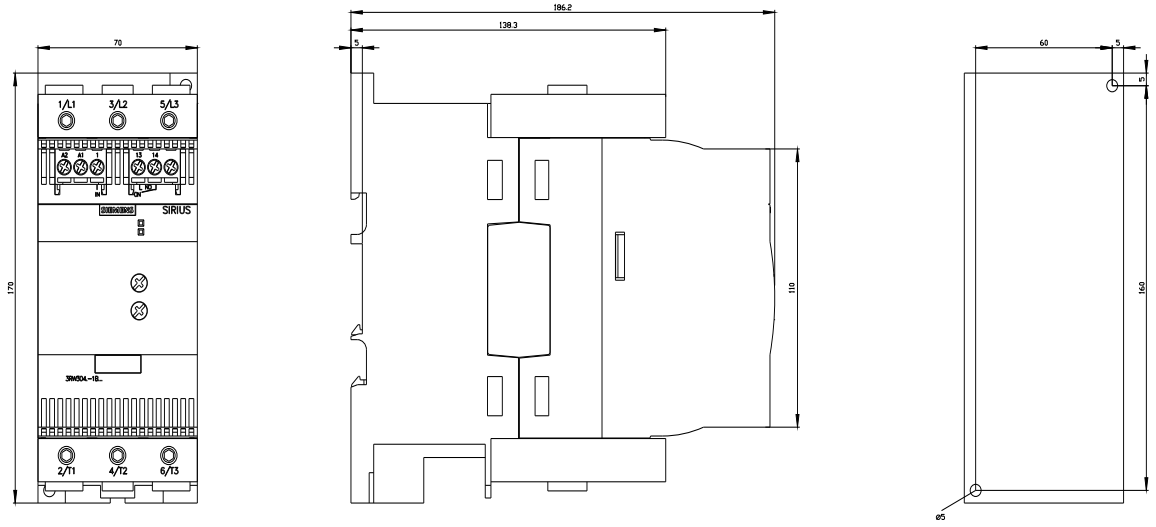
UL/CSA ratings

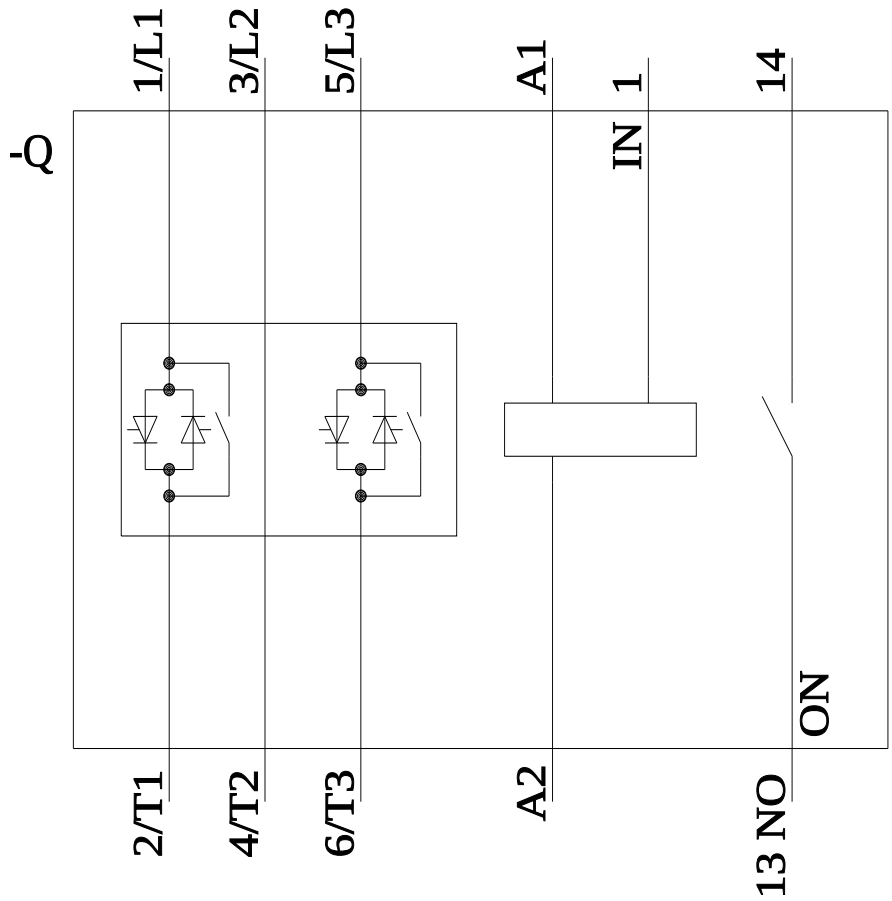
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	30
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	75
contact rating of auxiliary contacts according to UL		B300 / R300

Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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=3RW3047-1BB14
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-1BB14
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB14
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-1BB14&lang=en





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