SIEMENS

Data sheet 3RW4074-6BB35



SIRIUS soft starter S12 248 A, 250 hp/575 V, 50 °C 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5074-6AB15<<

General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
 external reset 		Yes
 adjustable current limitation 		Yes
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 	Α	280
 at 50 °C rated value 	Α	248
at 60 °C rated value	Α	215
yielded mechanical performance for 3-phase motors		
• at 400 V		
 — at standard circuit at 40 °C rated value 	W	160 000
● at 500 V		
— at standard circuit at 40 °C rated value	W	200 000
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	400 600
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	20

adjustable motor current for motor overload protection minimum rated value	А	130
continuous operating current [% of le] at 40 °C	- %	115
power loss [W] at operational current at 40 °C during operation typical	W	90
Control circuit/ Control		
type of voltage of the control supply voltage		AC
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 voltage frequency		10
control supply voltage 1 at AC		
 at 50 Hz rated value 	V	115
at 60 Hz rated value	_ V	115
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
display version for fault signal		red
Mechanical data		
size of engine control device		S12
width	mm	160
height	mm	230
depth	mm	278
fastening method		screw fixing
mounting position		With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
required spacing with side-by-side mounting		
• upwards	mm	100
at the side	mm	5
• downwards	mm	75
wire length maximum	– m	300
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		
for main current circuit		busbar connection
 for auxiliary and control circuit 		screw-type terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		2
number of CO contacts for auxiliary contacts		1
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
 finely stranded with core end processing 		70 240 mm²
finely stranded without core end processingstranded		70 240 mm ² 95 300 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 		120 185 mm²
 finely stranded without core end processing 		120 185 mm²
• stranded		120 240 mm²
type of connectable conductor cross-sections for		

ertificates/ approvais		EMC	For use in hazard
Sertificates/ approvals		iniger-sale, for vertical contact from the	ic none with cover
touch protection on the front acc. to IEC 60529		IP00; IP20 with cover finger-safe, for vertical contact from the front with cover	
protection class IP on the front acc. to IEC 60529	C	40	
during storage derating temporature	°C	-40 +80	
during operation	°C	-25 +60	
ambient temperature	°C	25 160	
during operation acc. 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 acc. to IEC 60721		1K6 (only occasional condensation), 1S2 (sand must not get inside the de	
during transport acc. 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	
mbient conditions			
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)	
for auxiliary contacts		2x (20 14)	
• for main contacts		2/0 500 kcmil	
type of connectable conductor cross-sections at AWG cables			
finely stranded with core end processing		2x (0.5 1.5 mm²)	
• solid		2x (0.5 2.5 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
stranded		70 240 mm²	
• finely stranded		50 240 mm²	
type of connectable conductor cross-sections for DIN cable lug for main contacts		,	
using both clamping points		min. 2x 2/0, max. 2x 500 kcmil	
using the back clamping point using the front clamping point		3/0 600 kcmil	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point		250 500 kcmil	
• stranded		max. 2x 70 mm², max. 2x 240 mm²	
 finely stranded without core end processing 		min. 2x 50 mm², max. 2x 185 mm²	
 finely stranded with core end processing 		min. 2x 50 mm², max. 2x 185 mm²	
nain contacts for box terminal using both clamping points			



For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other

Miscellaneous



Special Test Certificate

Lloyd's Register

200



Confirmation

UL/CSA ratings	
yielded mecha motor	nical performance [hp] for 3-phase AC

• at 460/480 V

— at standard circuit at 50 °C rated value

hp

• at 575/600 V

 at standard circuit at 50 °C rated value
contact rating of auxiliary contacts according to UL

hp	250
	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=3RW4074-6BB35

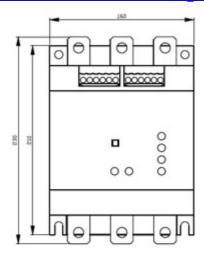
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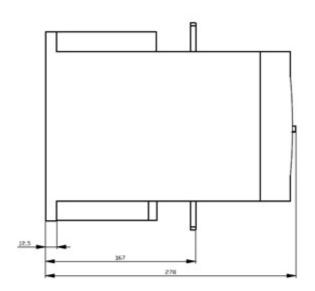
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4074-6BB35

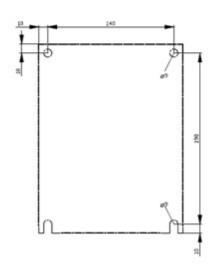
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

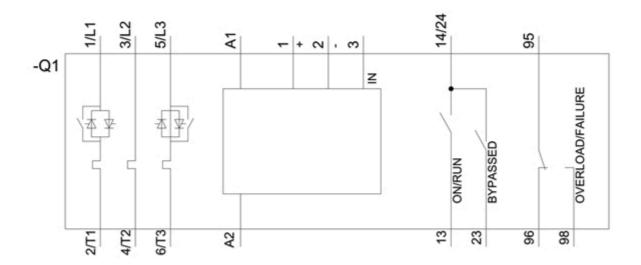
https://support.industry.siemens.com/cs/ww/en/ps/3RW4074-6BB35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4074-6BB35&lang=en









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