SIEMENS

General technical data

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<<

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 according to EN 61346-2		Q
reference code according to DIN 40719 extended		G
according to IEC 204-2 according to IEC 750		
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 ∨		
 at standard circuit at 40 °C rated value 	kW	160
● at 500 V		
 at standard circuit at 40 °C rated value 	kW	200
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	Α	130
continuous operating current [% of le] at 40 °C	%	115
	147	

operation typical

power loss [W] at operational current at 40 °C during

W

90

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• for auxiliary and control circuit screw-type terminals number of NC contacts for auxiliary contacts 0
number of NC contacts for auxiliary contacts
number of NC contacts for auxiliary contacts
number of NO contacts for auxiliary contacts 2
number of CO contacts for auxiliary contacts
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 processing 70 240 mm²
• stranded 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 mm ²
• stranded 120 240 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points
• finely stranded with core end processing min. 2x 50 mm², max. 2x 185 mm²
• finely stranded without core end processing • finely stranded without core end processing min. 2x 50 mm², max. 2x 165 mm²
• stranded • stranded max. 2x 70 mm², max. 2x 240 mm²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal
• using the back clamping point 250 500 kcmil
• using the front clamping point 3/0 600 kcmil

min. 2x 2/0, max. 2x 500 kcmil • using both clamping points type of connectable conductor cross-sections for DIN cable lug for main contacts 50 ... 240 mm² finely stranded 70 ... 240 mm² stranded 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 at AWG cables • for main contacts 2/0 ... 500 kcmil · for auxiliary contacts 2x (20 ... 14) • for auxiliary contacts finely stranded with core end 2x (20 ... 16) processing **Ambient conditions** installation altitude at height above sea level 5 000 m 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 °C • during operation -25 ... +60 during storage °C -40 ... +80 °C 40 derating temperature protection class IP on the front according to IEC IP00; IP20 with cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover

General Product Approval

EMC



Certificates/ approvals

Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certificate





Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	200
• at 575/600 V		
 at standard circuit at 50 °C rated value 	hp	250
contact rating of auxiliary contacts according to UL		B300 / R300

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)

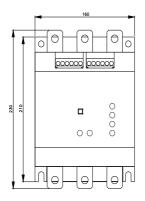
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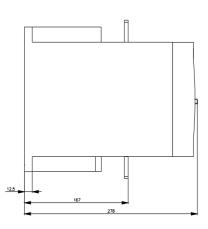
Cax online generator

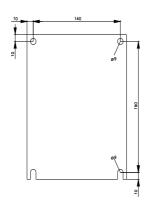
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4074-6BB35

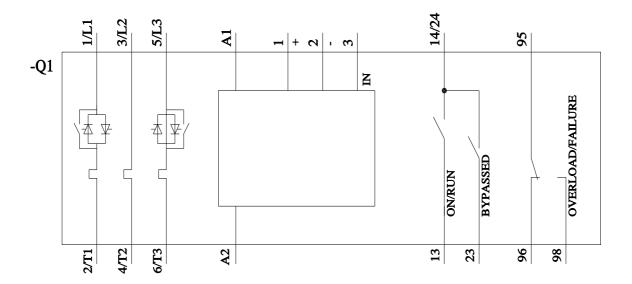
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4074-6BB35

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









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