SIEMENS

Data sheet

3RW4075-2BB34



SIRIUS soft starter S12 315 A, 250 hp/460 V, 50 °C 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5075-2AB14<<

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 	А	356
 at 50 °C rated value 	А	315
• at 60 °C rated value	А	280
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	W	110 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	200 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	100
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	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
Standard on out		

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standard circuit					
minimum load [%]	%	20			
adjustable motor current for motor overload protection minimum rated value	A	131			
continuous operating current [% of le] at 40 °C	%	115			
power loss [W] at operational current at 40 °C during	W	125			
operation typical	vv	125			
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 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	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 	_	spring-loaded 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 processing 		70 240 mm²			
stranded		95 300 mm²			
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 mr	n²		
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 mn	n², max. 2x 185 mm	2	
 finely stranded without core end processing 		min. 2x 50 mm², max. 2x 185 mm²			
• stranded		max. 2x 70 m	max. 2x 70 mm ² , max. 2x 240 mm ²		
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal					
 using the back clamping point 		250 500 kci	mil		
 using the front clamping point 		3/0 600 kcm	nil		
using both clamping points		min. 2x 2/0, m	ax. 2x 500 kcmil		
type of connectable conductor cross-sections for DIN cable lug for main contacts					
 finely stranded 		50 240 mm			
• stranded		70 240 mm	2		
type of connectable conductor cross-sections for auxiliary contacts					
• solid		2x (0.25 1.5	5 mm²)		
 finely stranded with core end processing 		2x (0.25 1.5			
type of connectable conductor cross-sections at AWG cables			,		
for main contacts		2/0 500 kcm	nil		
 for auxiliary contacts 		2x (24 16)			
Ambient conditions					
installation altitude at height above sea level	m	5 000			
environmental category					
 during transport acc. to IEC 60721 		2K2, 2C1, 2S	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
during operation acc. to IEC 60721	_	· ·	ition of ice, no conde nd must not get into	ensation), 3C3 (no salt 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 acc. to IEC 60529		IP00; IP20 wit			
touch protection on the front acc. to IEC 60529		finger-safe, fo	r vertical contact fro	m the front with cover	
Certificates/ approvals					
General Product Approval			EMC	For use in hazard- ous locations	
		EHC	RCM	K ATEX	
Declaration of Conformity Test Certifica	ates Mar	rine / Shipping		other	
Miscellaneous <u>Special Test C</u> ate EG-Konf.	<u>ertific-</u>	Lloyd's Register us	ENVILLEDBOR	<u>Confirmation</u>	
UL/CSA ratings					
yielded mechanical performance [hp] for 3-phase AC					
motor					
	hp	125			

• at 460/480 V

 at standard circuit at 50 °C rated va 	lue
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hp

contact rating of auxiliary contacts according to UL

250 B300 / R300

Further information

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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=3RW4075-2BB34

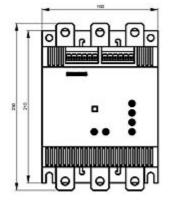
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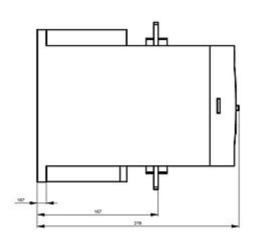
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-2BB34

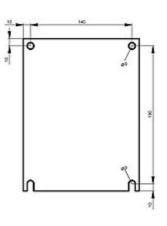
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

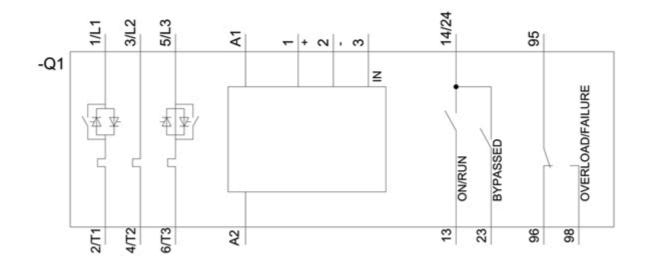
https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-2BB34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4075-2BB34&lang=en









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