SIEMENS

Data sheet

3RW4075-6BB35



SIRIUS soft starter S12 315 A, 300 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 >>3RW5075-6AB15<<

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 	А	356
 at 50 °C rated value 	А	315
 at 60 °C rated value 	А	280
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	W	200 000
● at 500 V		
— at standard circuit at 40 °C rated value	W	250 000
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	A	131
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	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 		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		70 040 1
 finely stranded with core end processing 		70 240 mm ²
 finely stranded without core end processing 		70 240 mm ²
• 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 mm²
type of connectable conductor cross-sections for		

points				
 finely stranded with core end processing 		min. 2x 50 mm	n², max. 2x 185 mm²	
 finely stranded without core end processing 			n², max. 2x 185 mm²	
stranded			m², max. 2x 240 mm²	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal	-		. ,	
		250 500 kcr	mil	
using the back clamping point				
using the front clamping point		3/0 600 kcm		
using both clamping points type of connectable conductor cross-sections for DIN	-	min. 2x 2/0, m	ax. 2x 500 kcmil	
cable lug for main contacts				
finely stranded		50 240 mm ²	2	
• stranded		70 240 mm ²		
type of connectable conductor cross-sections for	-			
auxiliary contacts				
• solid		2x (0.5 2.5 ı	mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 ı	mm²)	
type of connectable conductor cross-sections at AWG	-			
cables				
 for main contacts 		2/0 500 kcm	nil	
 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	m	5 000		
environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1	I, 2M2 (max. fall heigh	it 0.3 m)
 during storage acc. to IEC 60721 			asional condensation)	
			st not get inside the de	
 during operation acc. to IEC 60721 			ition of ice, no conden nd must not get into th	
ambient temperature		11100), 002 (30	na maerner ger mo ti	
during operation	°C	-25 +60		
e dannig operation	°C	-40 +80		
 during storage 				
during storage derating temperature	-			
derating temperature	°C	40	h cover	
derating temperature protection class IP on the front acc. to IEC 60529	-	40 IP00; IP20 wit		the front with cover
derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	-	40 IP00; IP20 wit	h cover r vertical contact from	the front with cover
derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	-	40 IP00; IP20 wit		
derating temperature protection class IP on the front acc. to IEC 60529	-	40 IP00; IP20 wit		the front with cover For use in hazard- ous locations
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• at 575/600 V	
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hp

B300 / R300

300

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=3RW4075-6BB35

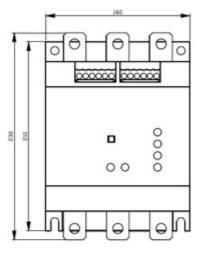
Cax online generator

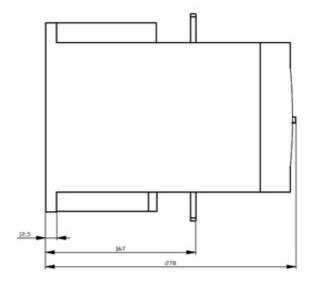
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-6BB35

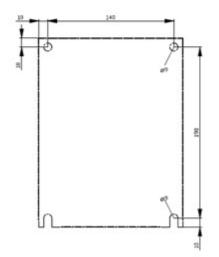
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

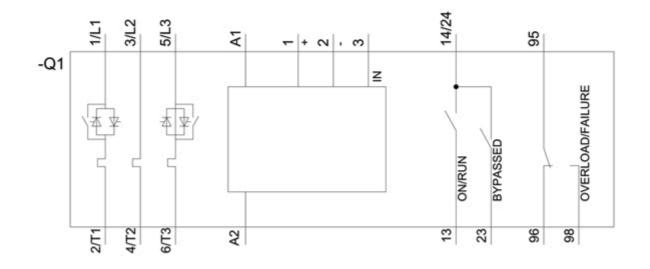
https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-6BB35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4075-6BB35&lang=en









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