SIEMENS

Data sheet

3RW4075-6BB45



SIRIUS soft starter S12 356 A, 250 kW/500 V, 40 °C 400-600 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5075-6AB15<<

product brand name		SIRIUS
product statute		
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	v	3, acc. to IEC 60947-4-2
reference code acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according		G
to IEC 204-2 acc. to IEC 750		0
ower 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

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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	230
• at 60 Hz rated value	V	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
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		

Miscellaneous EG-Konf. <u>Special Test Cr</u> ate ate		UIS	DNV-GL	
	ertific-	Howds		Confirmation
Declaration of Conformity Test Certifica	ates Ma	rine / Shipping		other
		EHC	RCM	KEX ATEX
General Product Approval			EMC	For use in hazard ous locations
Sertificates/ approvals				
touch protection on the front acc. to IEC 60529				n the front with cover
protection class IP on the front acc. to IEC 60529	C	40 IP00; IP20 with	h cover	
during storage derating temperature	0°	-40 +80		
during operation during storage	0°	-25 +80		
 ambient temperature during operation 	°C	-25 +60		
during operation acc. to IEC 60721		·	nd must not get into	nsation), 3C3 (no salt the devices), 3M6
- during execution to IEO 00704			st not get inside the	
 during storage acc. to IEC 60721 				n), 1C2 (no salt mist),
 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				
processing				
 for auxiliary contacts finely stranded with core end 		2x (20 16)		
 for auxiliary contacts 		2x (20 14)		
for main contacts		2/0 500 kcm	nil	
type of connectable conductor cross-sections at AWG cables				
finely stranded with core end processing		2x (0.5 1.5 ı	mm²)	
• solid		2x (0.5 2.5 ı	,	
auxiliary contacts				
type of connectable conductor cross-sections for		10210 1111		
stranded stranded		70 240 mm ²		
cable lug for main contacts finely stranded 		50 240 mm²	2	
type of connectable conductor cross-sections for DIN				
 using both clamping points 		min. 2x 2/0, m	ax. 2x 500 kcmil	
 using the front clamping point 		3/0 600 kcm	nil	
 using the back clamping point 		250 500 kcr	nil	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				
• stranded		max. 2x 70 mr	m², max. 2x 240 mm²	<u>.</u>
 finely stranded without core end processing 			n², max. 2x 185 mm²	
			n², max. 2x 185 mm²	
 finely stranded with core end processing 				

• at	575/600) V
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hp

B300 / R300

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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=3RW4075-6BB45

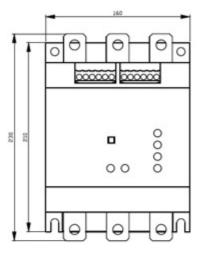
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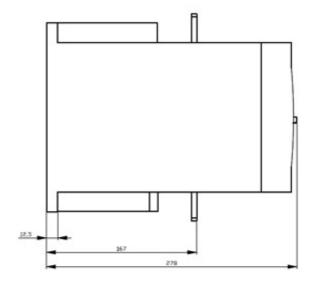
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4075-6BB45

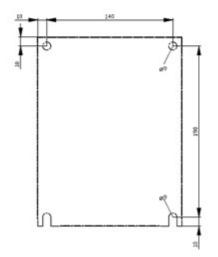
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

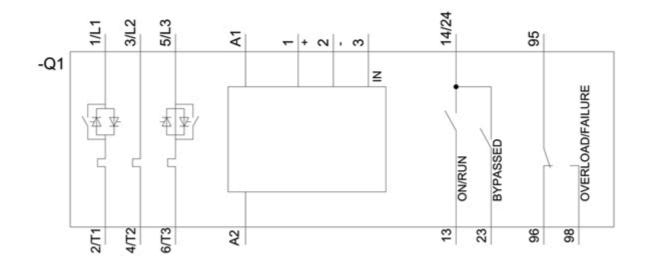
https://support.industry.siemens.com/cs/ww/en/ps/3RW4075-6BB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4075-6BB45&lang=en









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