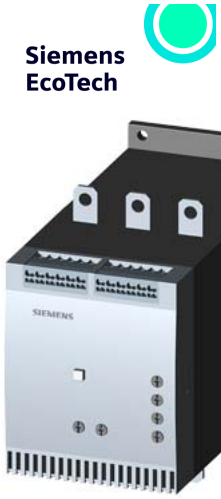
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Data sheet 3RW4056-2BB44



SIRIUS soft starter S6 162 A, 90 kW/400 V, 40 °C 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5056-2AB14<<

General technical data	
product brand name	SIRIUS
product designation	Soft starter
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	600 V
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 according to IEC 204-2 according to IEC 750	G
Power Electronics	
operational current	
● at 40 °C rated value	162 A
● at 50 °C rated value	145 A
● at 60 °C rated value	125 A
yielded mechanical performance for 3-phase motors	
● at 230 V	
— at standard circuit at 40 °C rated value	45 kW
● at 400 V	
— at standard circuit at 40 °C rated value	90 kW
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	40 hp
operating frequency rated value	50 ... 60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
operating voltage at standard circuit rated value	200 ... 460 V
relative negative tolerance of the operating voltage at standard circuit	-15 %

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relative positive tolerance of the operating voltage at standard circuit	10 %
minimum load [%]	20 %
adjustable motor current for motor overload protection minimum rated value	87 A
continuous operating current [% of Ie] at 40 °C	115 %
power loss [W] at operational current at 40 °C during operation typical	75 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage frequency 1 rated value	50 Hz
control supply voltage frequency 2 rated value	60 Hz
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	230 V
● at 60 Hz rated value	230 V
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	S6
width	120 mm
height	198 mm
depth	250 mm
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	100 mm
● at the side	5 mm
● downwards	75 mm
wire length maximum	300 m
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	16 ... 70 mm²
● finely stranded without core end processing	16 ... 70 mm²
● stranded	16 ... 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	
● finely stranded with core end processing	16 ... 70 mm²
● finely stranded without core end processing	16 ... 70 mm²
● stranded	16 ... 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	

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● finely stranded with core end processing	max. 1x 50 mm², 1x 70 mm²
● finely stranded without core end processing	max. 1x 50 mm², 1x 70 mm²
● stranded	max. 2x 70 mm²
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	
● using the back clamping point	6 ... 2/0
● using the front clamping point	6 ... 2/0
● using both clamping points	max. 2x 1/0
type of connectable conductor cross-sections for DIN cable lug for main contacts	
● finely stranded	2x (16 ... 95 mm²)
● stranded	2x (25 ... 120 mm²)
type of connectable conductor cross-sections for auxiliary contacts	
● solid	2x (0.25 ... 1.5 mm²)
● finely stranded with core end processing	2x (0.25 ... 1.5 mm²)
type of connectable conductor cross-sections for AWG cables	
● for main contacts	4 ... 250 kcmil
● for auxiliary contacts	2x (24 ... 16)
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	
● during operation	-25 ... +60 °C
● during storage	-40 ... +80 °C
derating temperature	40 °C
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
UL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
● at 220/230 V	
— at standard circuit at 50 °C rated value	50 hp
● at 460/480 V	
— at standard circuit at 50 °C rated value	100 hp
contact rating of auxiliary contacts according to UL	B300 / R300

Approvals Certificates

Environment	General Product Approval				
Environmental Confirmations	Siemens EcoTech	CCC	cULus	EAC	CE EG-Konf.

EMV	For use in hazardous locations	Test Certificates	Maritime application	
KC	RCM	ATEX	Special Test Certificate	DNV	LRS

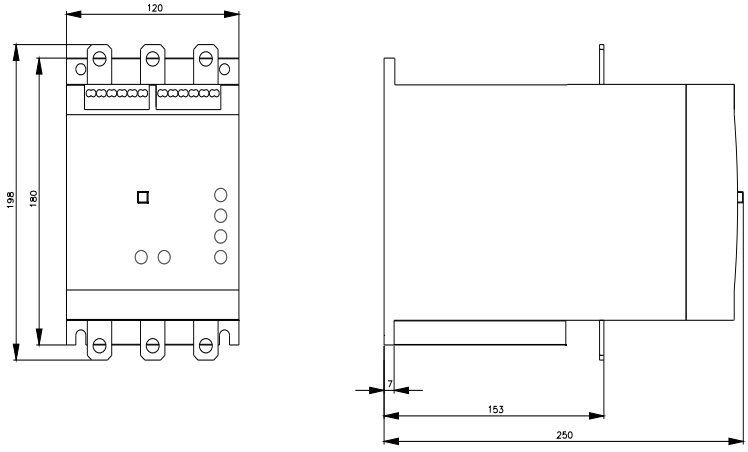
other

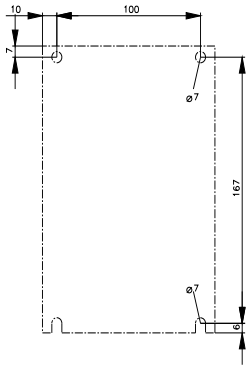
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Confirmation

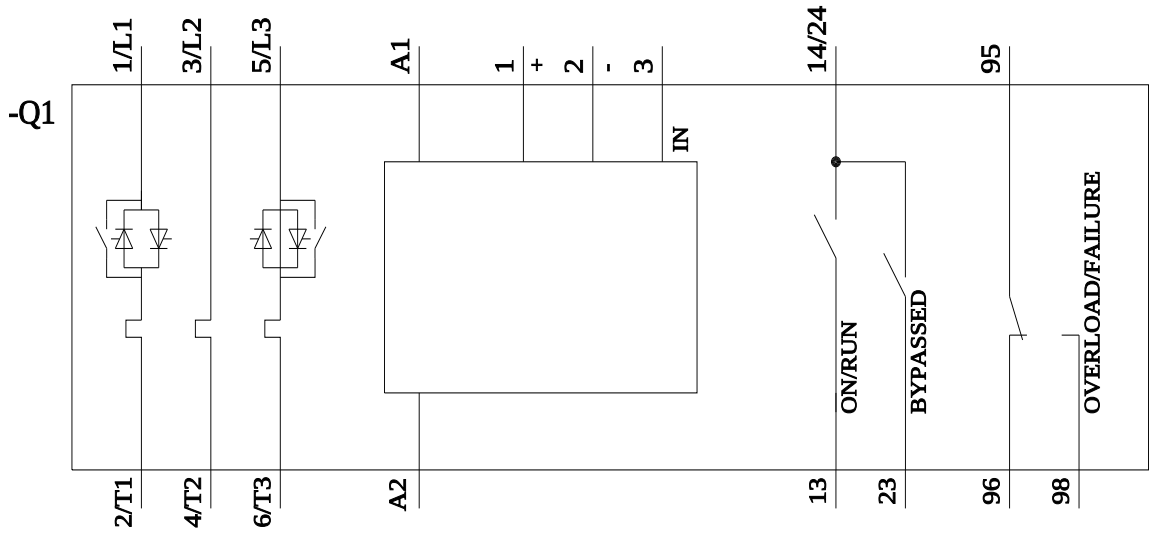
Further information

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 for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
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=3RW4056-2BB44
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-2BB44
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-2BB44
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4056-2BB44&lang=en





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