SIEMENS

Data sheet 3RW4466-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 1214 A, 710 kW Inside-delta: 2103 A, 1200 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-6HA14<<

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	Yes
● external reset	Yes
● adjustable current limitation	Yes
● inside-delta circuit	Yes
product component motor brake output	Yes
insulation voltage rated value	690 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	1 214 A
● at 50 °C rated value	1 076 A
● at 60 °C rated value	970 A
operational current for 3-phase motors at inside-delta circuit	
● at 40 °C rated value	2 103 A
● at 50 °C rated value	1 864 A
● at 60 °C rated value	1 680 A
yielded mechanical performance for 3-phase motors	
● at 230 V	
— at standard circuit at 40 °C rated value	400 kW
— at inside-delta circuit at 40 °C rated value	710 kW
● at 400 V	
— at standard circuit at 40 °C rated value	710 kW
— at inside-delta circuit at 40 °C rated value	1 200 kW
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	400 hp
operating frequency rated value	50 ... 60 Hz
relative negative tolerance of the operating frequency	-10 %

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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 %
relative positive tolerance of the operating voltage at standard circuit	10 %
operating voltage at inside-delta circuit rated value	200 ... 460 V
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
minimum load [%]	8 %
adjustable motor current for motor overload protection minimum rated value	242 A
continuous operating current [% of Ie] at 40 °C	115 %
power loss [W] at operational current at 40 °C during operation typical	630 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	Display
Mechanical data	
width	575 mm
height	780 mm
depth	292 mm
fastening method	screw fixing
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
required spacing with side-by-side mounting	
● upwards	100 mm
● at the side	5 mm
● downwards	75 mm
wire length maximum	500 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	screw-type terminals
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	3
number of CO contacts for auxiliary contacts	1
type of connectable conductor cross-sections for DIN cable lug for main contacts	
● finely stranded	50 ... 240 mm²
● stranded	70 ... 240 mm²
type of connectable conductor cross-sections for auxiliary contacts	

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● 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 for AWG cables	
● for main contacts	2/0 ... 500 kcmil
● for auxiliary contacts	2x (20 ... 14)
● for auxiliary contacts finely stranded with core end processing	2x (20 ... 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	60 °C
● during storage	-25 ... +80 °C
derating temperature	40 °C
protection class IP on the front according to IEC 60529	IP00

UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor	
● at 200/208 V	
— at inside-delta circuit at 50 °C rated value	700 hp
● at 220/230 V	
— at standard circuit at 50 °C rated value	450 hp
— at inside-delta circuit at 50 °C rated value	850 hp
● at 460/480 V	
— at standard circuit at 50 °C rated value	950 hp
— at inside-delta circuit at 50 °C rated value	1 700 hp
contact rating of auxiliary contacts according to UL	B300 / R300

Approvals Certificates

Environment	General Product Approval
Environmental Confirmations	CCC, cULus, EAC, UKCA, CE EG-Konf.

EMV	Test Certificates	Maritime application
KC, RCM	Special Test Certificate	ABS, Bureau Veritas, DNV

Maritime application	other	
Lloyd's Register LRS, PRS	Confirmation	Confirmation, 产品合格 QC PASS

Further information

Simulation Tool for Soft Starters (STS)
https://www.siemes.plc.com/?s=3RW4466-6BC44

Information on the packaging
https://www.siemes.plc.com/?s=3RW4466-6BC44

Information for data generation and storage
https://www.siemes.plc.com/?s=3RW4466-6BC44

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Information- and Downloadcenter (Catalogs, Brochures,…)

https://www.siemes.plc.com/?s=3RW4466-6BC44

Industry Mall (Online ordering system)

https://www.siemes.plc.com/?s=3RW4466-6BC44

Cax online generator

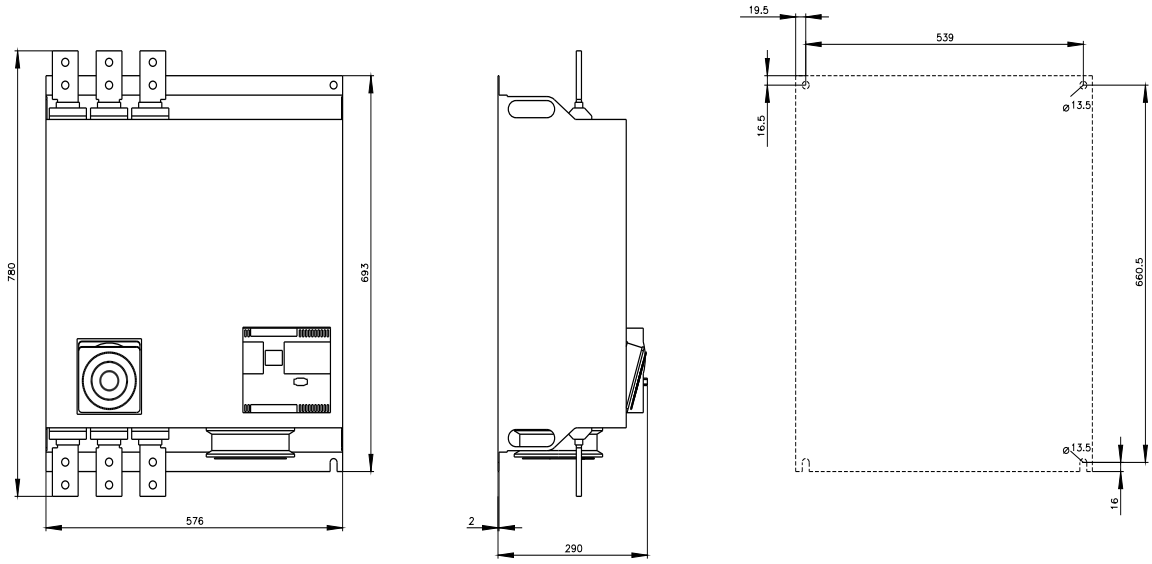
https://www.siemes.plc.com/?s=3RW4466-6BC44

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

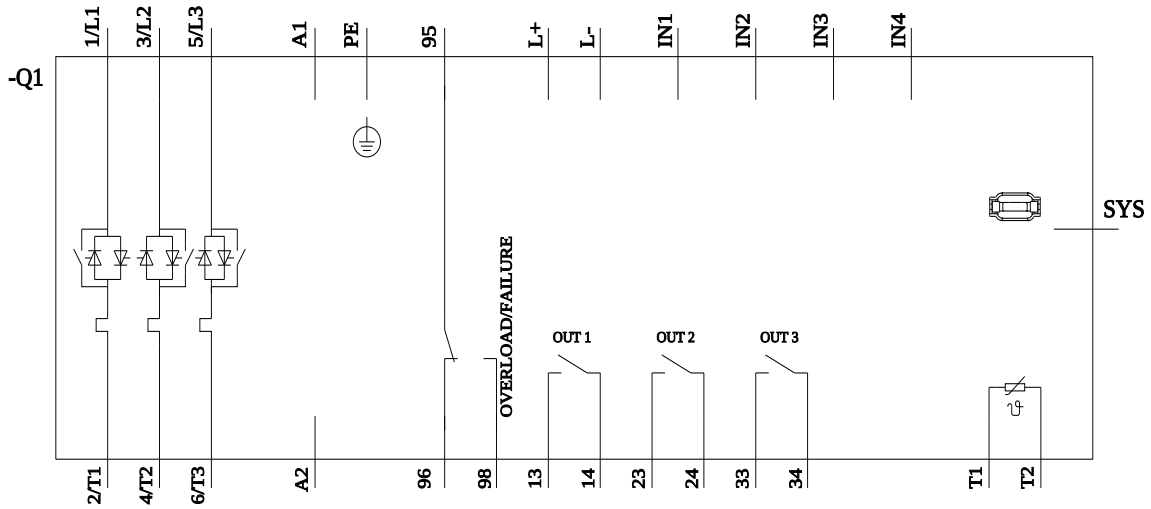
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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last modified: 4/1/2025

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