SIEMENS

Data sheet 3RW4036-1BB14

Siemens EcoTech

SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °C 200-480 V AC, 110-230 V AC/DC
Screw terminals



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
blocking voltage of the thyristor maximum	1 600 V
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	45 A
● at 50 °C rated value	42 A
● at 60 °C rated value	39 A
yielded mechanical performance for 3-phase motors	
● at 230 V	
— at standard circuit at 40 °C rated value	11 kW
● at 400 V	
— at standard circuit at 40 °C rated value	22 kW
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	10 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 ... 480 V
relative negative tolerance of the operating voltage at	-15 %

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standard circuit	
relative positive tolerance of the operating voltage at standard circuit	10 %
minimum load [%]	20 %
adjustable motor current for motor overload protection minimum rated value	23 A
continuous operating current [% of Ie] at 40 °C	115 %
power loss [W] at operational current at 40 °C during operation typical	6 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
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	110 ... 230 V
control supply voltage 1 at AC at 60 Hz	110 ... 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 %
control supply voltage 1 at DC	110 ... 230 V
relative negative tolerance of the control supply voltage at DC	-15 %
relative positive tolerance of the control supply voltage at DC	10 %
display version for fault signal	red
Mechanical data	
size of engine control device	S2
width	55 mm
height	160 mm
depth	170 mm
fastening method	screw and snap-on mounting
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	60 mm
● at the side	30 mm
● downwards	40 mm
wire length maximum	300 m
number of poles for main current circuit	3
Connections/ Terminals	
type of electrical connection	
● for main current circuit	screw-type terminals
● 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	
● solid	2x (1.5 ... 16 mm²)
● finely stranded with core end processing	0.75 ... 25 mm²
● stranded	0.75 ... 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	

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● solid	2x (1.5 ... 16 mm²)
● finely stranded with core end processing	1.5 ... 25 mm²
● stranded	1.5 ... 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	
● solid	2x (1.5 ... 16 mm²)
● finely stranded with core end processing	2x (1.5 ... 16 mm²)
● stranded	2x (1.5 ... 25 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	
● using the back clamping point	16 ... 2
● using the front clamping point	18 ... 2
● using both clamping points	2x (16 ... 2)
type of connectable conductor cross-sections for auxiliary contacts	
● 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 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	-25 ... +60 °C
● during storage	-40 ... +80 °C
derating temperature	40 °C
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
UL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
● at 220/230 V	
— at standard circuit at 50 °C rated value	15 hp
● at 460/480 V	
— at standard circuit at 50 °C rated value	30 hp
contact rating of auxiliary contacts according to UL	B300 / R300
Approvals Certificates	
Environmental Product Declaration	
● global warming potential [CO2 eq] / during manufacturing	26.9 kg
● global warming potential [CO2 eq] / during sales	0.324 kg
● global warming potential [CO2 eq] / during operation	158 kg
● global warming potential [CO2 eq] / after end of life	-4.56 kg
● global warming potential [CO2 eq] / total	181 kg

Environment	General Product Approval

Environmental Confirmations

General Product Approval	EMV	For use in hazardous locations

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Test Certificates		Maritime application			other
Special Test Certific-ate	Type Test Certific-ates/Test Report	DNV	LRS	PRS	Confirmation

other		Railway	
Confirmation	产品合格 QC PASS	Special Test Certific-ate	Confirmation

Further information

Simulation Tool for Soft Starters (STS)
https://www.plcally.com/?s=3RW4036-1BB14

Information on the packaging
https://www.plcally.com/?s=3RW4036-1BB14

Information for data generation and storage
https://www.plcally.com/?s=3RW4036-1BB14

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.plcally.com/?s=3RW4036-1BB14

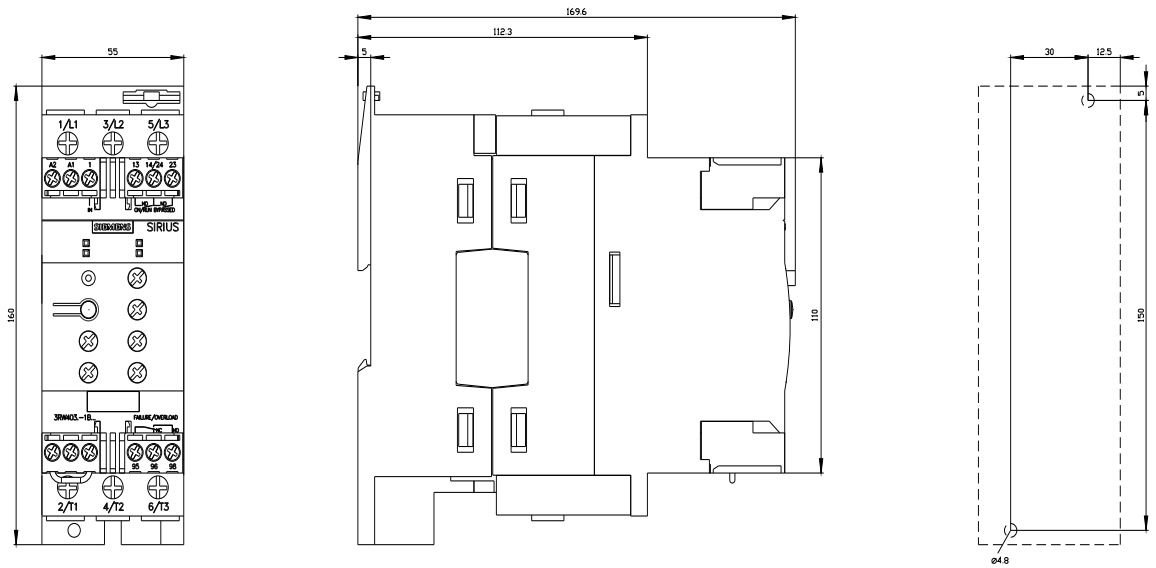
Industry Mall (Online ordering system)
https://www.plcally.com/?s=3RW4036-1BB14

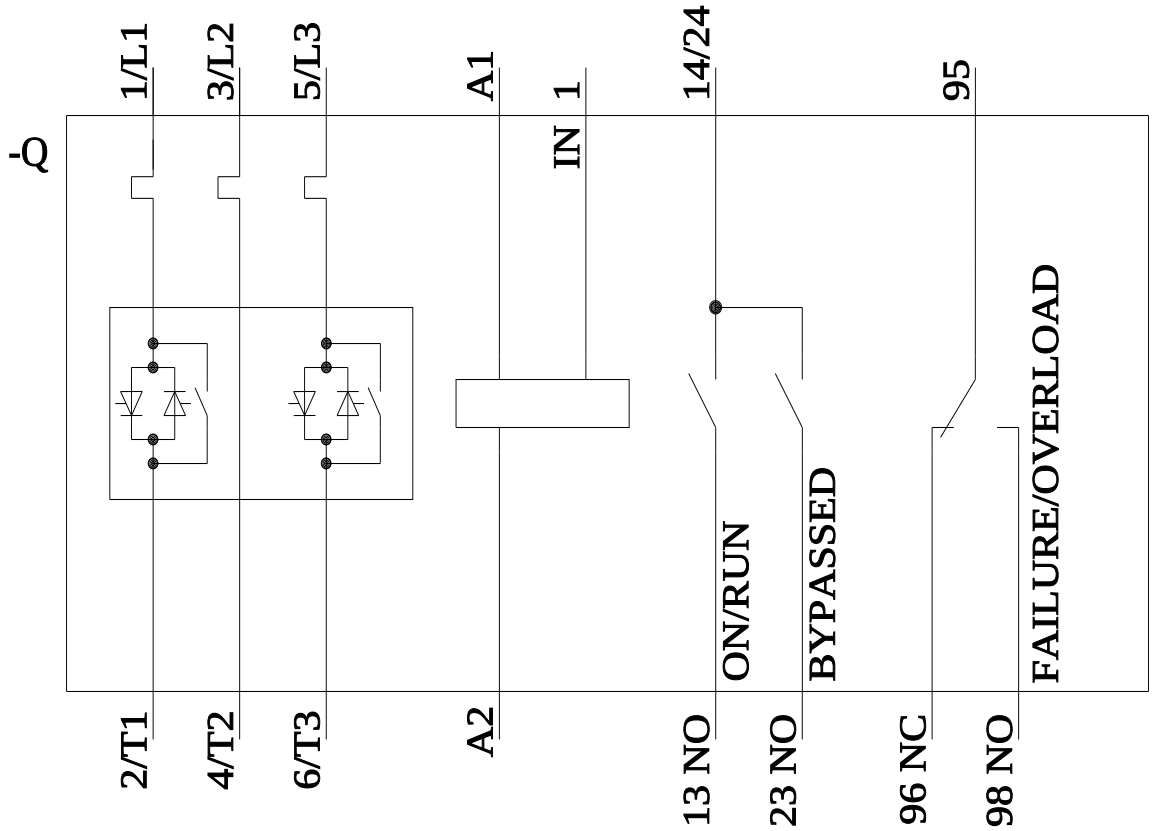
Cax online generator
https://www.plcally.com/?s=3RW4036-1BB14

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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