

Siemens 3RW4073-6BB44 Manual

Brand	Siemens
Product Series	Siemens
Product Type	is

Description

3RW4073-6BB44

SIRIUS soft starter S12 230 A, 132 kW/400 V, 40 °C 200-460

V AC, 230 V AC Screw terminals !!! Phased-out product !!!

Successor is SIRIUS 3RW5, Preferred successor type is

>>3RW5073-6AB14<<

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 A 230
- at 50 °C rated value A 205
- at 60 °C rated value A 180

yielded mechanical performance for 3-phase motors

- at 230 V

— at standard circuit at 40 °C rated value W 75 000

- at 400 V

— at standard circuit at 40 °C rated value W 132 000

yielded mechanical performance [hp] for 3-phase AC

motor at 200/208 V at standard circuit at 50 °C rated

value

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hp 60

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 200 ... 460

relative negative tolerance of the operating voltage at
standard circuit

% -15

relative positive tolerance of the operating voltage at % 10

standard circuit

minimum load [%] % 20

adjustable motor current for motor overload

protection minimum rated value

A 80

continuous operating current [% of I_e] at 40 °C % 115

power loss [W] at operational current at 40 °C during
operation typical

W 90

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

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mounting position With additional fan: With vertical mounting surface $\pm 90^\circ$

rotatable, with vertical mounting surface $\pm 22.5^\circ$ tiltable

to the front and back Without additional fan: With vertical

mounting surface $\pm 10^\circ$ rotatable, with vertical mounting

surface $\pm 10^\circ$ 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

- finely stranded with core end processing 70 ... 240 mm²
- finely stranded without core end processing 70 ... 240 mm²
- 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

main contacts for box terminal using both clamping

points

- finely stranded with core end processing min. 2x 50 mm², max. 2x 185 mm²
- finely stranded without core end processing min. 2x 50 mm², max. 2x 185 mm²
- stranded max. 2x 70 mm², max. 2x 240 mm²

type of connectable conductor cross-sections at AWG

cables for main contacts for box terminal

- using the back clamping point 250 ... 500 kcmil
- using the front clamping point 3/0 ... 600 kcmil
- using both clamping points min. 2x 2/0, max. 2x 500 kcmil

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

- 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 at AWG

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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 m 5 000

environmental category

- during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
- during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
- during operation acc. 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 °C -25 ... +60
- during storage °C -40 ... +80

derating temperature °C 40

protection class IP IP00

Certificates/ approvals

General Product Approval

Technical Specifications

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