

Siemens 3RW4447-6BC44 Manual

Brand	Siemens
Product Series	Siemens
Product Type	is >>3RW5547-6HA14<<

Description

3RW4447-6BC44
SIRIUS SOFT STARTER

SIRIUS soft starter Values at 400 V, 40 °C standard: 432 A, 250 kW Inside-delta: 748 A, 400 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5547-6HA14<<

Packaging dimensions (L x W x H)

432.00 x 348.00 x 366.00 mm

Net weight

11.530 Kg

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SIRIUS SOFT STARTER, VALUES WITH 400 V,
40 DEG., STANDARD: 432A, 250KW,
INSIDE-DELTA CIRCUIT 3: 748A, 400KW,
200-460 V AC, 230 V AC, SCREW TERMINALS

General details:

product brand name SIRIUS

Product equipment

integrated bridging contact system Yes

thyristors Yes

Product function

intrinsic device protection Yes

motor overload protection Yes

evaluation of thermal resistor motor protection Yes

reset external Yes

adjustable current limitation Yes

inside-delta circuit Yes

Product component / outlet for engine brake Yes

Item designation

according to DIN EN 61346-2 Q

according to DIN 40719 extendable after IEC 204-2 / according
to IEC 750

G

Power Electronics:

Product designation soft starters for high feature applications

Operating current

at 40 °C / rated value A 432

at 50 °C / rated value A 385

at 60 °C / rated value A 335

for three-phase servomotors / at 3-phase root switching

at 40 °C / rated value A 748

at 50 °C / rated value A 667

at 60 °C / rated value A 580

Emitted mechanical power / for three-phase servomotors

at 230 V / at standard switching / at 40 °C

rated value W 132,000

at 400 V / at standard switching / at 40 °C

rated value W 250,000

at 230 V / at 3-phase root switching / at 40 °C

rated value W 250,000

at 400 V / at 3-phase root switching / at 40 °C

rated value W 400,000

yielded mechanical performance (hp) / for three-phase squirrel

cage motors / at 200/208 V / at standard circuit / at 50 °C / rated
value

hp 125

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 / with standard circuit / rated value V 200 ... 460

Relative negative tolerance / of the operating voltage / with
standard circuit

% -15

Relative positive tolerance / of the operating voltage / with
standard circuit

% 10

Operating voltage / at 3-phase root switching / rated value V 200 ... 460

Relative negative tolerance / of the operating voltage / with
inside-delta circuit

% -15

Relative positive tolerance / of the operating voltage / with
inside-delta circuit

% 10

Minimum load in % of I_M % 8

Adjustable rated current / of the motor / for motor overload
protection / minimum

A 86

Continuous operating current in % of I_e / at 40°C % 115

Active power loss / at operating current / at 40°C / during
operating phase / typical

W 232

Control electronics:

Type of voltage / of the controlled 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 50 Hz / for AC V 230

at 60 Hz / for AC V 230

Relative negative tolerance / of the control supply voltage / at 60
Hz / for AC

% -15

Relative positive tolerance / of the control supply voltage / at 60
Hz / for AC

% 10

Type of display / for fault signal Display

Mechanical design:

Width mm 210

Height mm 230

Depth mm 298

Type of mounting screw fixing

mounting position bei senkrechter Montageebene +/-90° drehbar, bei
senkrechter Montageebene +/- 22,5° nach vorne und
hinten kippbar

Distance, to be maintained, to the racks assembly

upwards mm 100

sideways mm 5

downwards mm 75

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Installation altitude / at a height over sea level m 5,000

Cable length / maximum m 500

Number of poles / for main current circuit 3

Electrical connections:

Design of the electrical connection

for main current circuit busbar connection

for auxiliary and control current circuit screw-type terminals

Number of NC contacts / for auxiliary contacts 0

Number of NO contacts / for auxiliary contacts 3

Number of changeover contacts / for auxiliary contacts 1

Type of the connectable conductor cross-section / for main

contacts / for box terminal / when using the front clamping point

finely stranded / with conductor end processing 70 ... 240 mm²

finely stranded / without conductor end processing 70 ... 240 mm²

stranded 95 ... 300 mm²

Type of the connectable conductor cross-section / for main

contacts / for box terminal / when using the back clamping

point

finely stranded / with conductor end processing 120 ... 185 mm²

without conductor final cutting / without conductor end

processing

120 ... 185 mm²

stranded 120 ... 240 mm²

Type of the connectable conductor cross-section / for main

contacts / for box terminal / when using both clamping points

finely stranded / with conductor end processing min. 2x 50 mm², max. 2x 185 mm²

without conductor final cutting / without conductor end

processing

min. 2x 50 mm², max. 2x 185 mm²

stranded max. 2x 70 mm², max. 2x 240 mm²

Type of the connectable conductor cross-section / for AWG

conductors / for main contacts / for box terminal

when using the back cl 250 ... 500 kcmil

when using the front c 3/0 ... 600 kcmil

when using both clampi min. 2x 2/0, max. 2x 500 kcmil

Type of the connectable conductor cross-section / for DIN cable

lug / for main contacts

finely stranded 50 ... 240 mm²

stranded 70 ... 240 mm²

Type of the connectable conductor cross-section

for AWG conductors / for main contacts 2/0 ... 500 kcmil

Type of the connectable conductor cross-section

for auxiliary contacts

solid 2x (0.5 ... 2.5 mm²)

finely stranded / with conductor end processing 2x (0.5 ... 1.5 mm²)

for AWG conductors / for auxiliary contacts 2x (20 ... 14)

finely stranded / with wire end proc 2x (20 ... 16)

Ambient conditions:

Ambient temperature

during operating / °C 60

during storage °C -25 ... +80

Derating temperature °C 40

Protection class IP IP00

Certificates/approvals:

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel

cage motors

at 220/230 V / at standard circuit

at 50 °C / rated value hp 150

at 460/480 V / at standard circuit

at 50 °C / rated value hp 300

at 200/208 V / at inside-delta circuit / at 50 °C / rated value hp 200

at 220/230 V / at inside-delta circuit / at 50 °C / rated value hp 250

at 460/480 V / at inside-delta circuit / at 50 °C / rated value hp 600

Contact rating designation / for auxiliary contacts / according to

UL

B300 / R300

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