

Siemens 3RW4453-6BC44 Manual

Brand	Siemens
Product Series	Siemens
Product Type	SIRIUS Soft Starter

Description

3RW4453-6BC44 | Siemens | SIRIUS Soft Starter

Manufacturer : Siemens

Product No. : 3RW4453-6BC44

Product Type : SIRIUS Soft Starter

Product equipment : Integrated bridging contact system, thyristors

Control supply voltage frequency / 2 / rated value : 60Hz

Dimensions (LxWxH) : 29cm x 51cm x 64cm

Weight : 67 Kg

SIRIUS SOFT STARTER, VALUES AT 400V,

40DEG., STANDARD: 551A, 315KW,

INSIDE-DELTA CIRCUIT 3: 954A, 800KW,

200-460V AC, 230V 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 551

at 50 °C / rated value A 494

at 60 °C / rated value A 438

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

at 40 °C / rated value A 954

at 50 °C / rated value A 856

at 60 °C / rated value A 759

Emitted mechanical power / for three-phase servomotors

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

rated value W 160,000

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

rated value W 315,000

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

rated value W 315,000

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

rated value W 560,000

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

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

hp 150

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 110

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 159

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

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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 510

Height mm 640

Depth mm 290

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

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 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:

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Ambient temperature
during operating / °C 60
during storage °C -25 ... +80
Derating temperature °C 40
Protection class IP IP00

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