Siemens □□□ Series Service Manual

3RW4056-6BB44

1. Description

3RW4056-6BB44

3. Product Information

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3RW4056-6BB44

SIRIUS SOFT STARTER, S6, 162 A,

90 KW/400 V, 40 DEG., 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 No

reset external Yes

adjustable current limitation Yes

inside-delta circuit No

Product component / outlet for enine brake No

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 standard applications

Operating current

at 40 °C / rated value A 162

at 50 °C / rated value A 145

at 60 °C / rated value A 125

Emitted mechanical power / for three-phase servomotors

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

rated value W 45,000

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

rated value W 90,000

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

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

value

hp 40

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

Minimum load in % of I_M % 20

Adjustable rated current / of the motor / for motor overload

protection / minimum

A 87

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 75

Control electronics:

Type of voltage / of the controlled supply voltage AC

Control supply voltage frequency / 1 / rated value Hz 50

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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 red

Mechanical design:

Size of the engine control device S6

Width mm 120

Height mm 198

Depth mm 250

Type of mounting screw fixing

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

Distance, to be maintained, to the ranks assembly

upwards mm 100

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sidewards mm 5

downwards mm 75

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

Cable length / maximum m 300

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 2

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 16 ... 70 mm²

finely stranded / without conductor end processing 16 ... 70 mm²

stranded 16 ... 70 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 16 ... 70 mm²

without conductor final cutting / without conductor end

processing

16 ... 70 mm²

stranded 16 ... 70 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 max. 1x 50 mm², 1x 70 mm²

without conductor final cutting / without conductor end

processing

max. 1x 50 mm², 1x 70 mm²

stranded max. 2x 70 mm2

Type of the connectable conductor cross-section / for AWG

conductors / for main contacts / for box terminal

when using the back cl 6 ... 2/0

when using the front c 6 ... 2/0

when using both clampi max. 2x 1/0

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

lug / for main contacts

finely stranded 16 ... 95 mm2

stranded 25 ... 120 mm2

Type of the connectable conductor cross-section

for AWG conductors / for main contacts 4 ... 250 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 -25 ... +60

during storage °C -40 ... +80

Derating temperature °C 40

Protection class IP IP00

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 50

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