

3RW4076-6BB44

SIRIUS Soft Starter

three-phase motor power plus control and auxiliary status circuits

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

Siemens SIRIUS 3RW40 motor-control system

PART

3RW4076-6BB44

PRODUCT TYPE

SIRIUS Soft Starter

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

three-phase motor power plus control and auxiliary status circuits

1

Integrates a bypass contact system for normal running

2

Provides electronic device and motor-overload protection

3

Supports adjustable current limiting and external reset

4

Provides dedicated run, bypass and overload/failure status contacts

SYSTEM COMPONENTS

three-phase motor and branch protection

230 V AC control circuit

main bar and auxiliary screw terminals

machine control and status circuits

TECHNICAL NOTE

Siemens lists 3RW4076-6BB44 as discontinued from 2023-10-01 and identifies 3RW5076-6AB14 as the preferred successor. Verify the installed motor circuit, control supply, protection and settings before replacement or migration.

TECHNICAL DATA

PARAMETER	VALUE
Article number	3RW4076-6BB44
Product line	SIRIUS
Product type	Soft starter
Device size	S12
Rated operational current at 40 degC	432 A
Rated operational current at 50 degC	385 A

PARAMETER	VALUE
Rated operational current at 60 degC	335 A
Motor output at 400 V and 40 degC	250 kW
Motor output at 230 V and 40 degC	132 kW
UL motor output at 220/230 V and 50 degC	150 hp
UL motor output at 460/480 V and 50 degC	300 hp
Operational voltage	200 to 460 V AC

ENGINEERING NOTE

Siemens lists 3RW4076-6BB44 as discontinued from 2023-10-01 and identifies 3RW5076-6AB14 as the preferred successor. Verify the installed motor circuit, control supply, protection and settings before replacement or migration.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SE7028-0ES87-2DA1	SIMOVERT braking module	View Siemens 6SE7028-0ES87-2DA1 page
Siemens 6SY7010-0AB08	SIMOVERT thyristor block	View Siemens 6SY7010-0AB08 page
Siemens 6SL3210-5FB10-8UF0	SINAMICS V90 servo drive	View Siemens 6SL3210-5FB10-8UF0 page
Siemens A5E00825001	SINAMICS IGBT module	View Siemens A5E00825001 page
Siemens 6EP3437-8SB00-0AY0	SITOP PSU8600 power supply	View Siemens 6EP3437-8SB00-0AY0 page
Siemens C98043-A7005-L1 6RY1704-0AA00	SIMOREG operator panel	View Siemens C98043-A7005-L1 6RY1704-0AA00 page
Siemens 6ES7972-4AA02-0XA0	SIMATIC DP power rail booster	View Siemens 6ES7972-4AA02-0XA0 page
Siemens 6ES7288-2DR08-0AA0	SIMATIC S7-200 SMART relay output module	View Siemens 6ES7288-2DR08-0AA0 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

3RW4076-6BB44 controlled motor acceleration

Integrates a bypass contact system for normal running

3RW4076-6BB44 current-limited starting

Provides electronic device and motor-overload protection

3RW4076-6BB44 controlled motor stopping

Supports adjustable current limiting and external reset

3RW4076-6BB44 installed-base service

Provides dedicated run, bypass and overload/failure status contacts

PRODUCT PRECAUTIONS

- 1 Verify the complete 3RW4076-6BB44 article number and the assigned SIRIUS S12 motor-control position before work.
- 2 Isolate the main motor circuit and the separate 230 V AC control supply, then verify a safe de-energized condition.
- 3 Confirm the motor rated current and application duty against the published 40 degC, 50 degC or 60 degC current rating.
- 4 Preserve the standard three-phase circuit arrangement; this article does not support an inside-delta connection.
- 5 Maintain the documented mounting orientation, cabinet airflow and Siemens installation clearances.
- 6 Record every main bar terminal, control terminal and auxiliary contact before disconnecting conductors.
- 7 Restore the approved overload setting, starting-voltage ramp, current limit and stopping behavior from the machine record.
- 8 Commission the run, bypass and overload/failure indications, external reset and motor response before service release.

ENGINEER FAQ

Q1 What motor-circuit ratings identify Siemens 3RW4076-6BB44?

Siemens rates 3RW4076-6BB44 for 200 to 460 V AC, 50 to 60 Hz operation, with 432 A rated operational current at 40 degC and a 250 kW motor reference at 400 V and 40 degC.

Q3 Which control supply is required by Siemens 3RW4076-6BB44?

The control circuit uses 230 V AC at either 50 Hz or 60 Hz, with a published tolerance of -15% to +10% for voltage and -10% to +10% for frequency.

Q5 Can Siemens 3RW4076-6BB44 be wired in an inside-delta circuit?

No. The exact Siemens data states that inside-delta connection is not supported, so 3RW4076-6BB44 must remain in the documented standard three-phase circuit arrangement.

Q7 Which environmental limits apply to Siemens 3RW4076-6BB44?

The Siemens data sheet specifies -25 to +60 degC operation, -40 to +80 degC storage, installation altitude up to 5000 m, and front protection of IP00 or IP20 when the approved cover is fitted.

Q2 How does ambient temperature change the current rating of Siemens 3RW4076-6BB44?

The exact Siemens data sheet lists 432 A at 40 degC, 385 A at 50 degC and 335 A at 60 degC, so the installed motor and duty must be checked against the applicable ambient rating.

Q4 Which protection and starting functions are built into Siemens 3RW4076-6BB44?

It includes electronic device self-protection, motor-overload protection, an integrated bypass contact system, adjustable current limiting and external reset. Thermistor evaluation is not included.

Q6 What conductor interfaces must be preserved when replacing Siemens 3RW4076-6BB44?

The main circuit uses bar terminals, while auxiliary and control circuits use screw terminals. Preserve all three main poles plus the two NO and one changeover auxiliary contacts exactly as documented.

Q8 What lifecycle and replacement information applies to Siemens 3RW4076-6BB44?

Siemens lists the article as discontinued from 2023-10-01 and identifies 3RW5076-6AB14 as the preferred successor. Any migration still requires a circuit, motor, control-supply and protection review.

SOURCE Siemens 3RW4076-6BB44 Technical Data Sheet | 3RW4076-6BB44, technical data revised 2025-04-01

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com