

INDUSTRIAL AUTOMATION PRODUCT

3RW4076-6BB44

SIRIUS Soft Starter

three-phase motor power plus control and auxiliary status circuits

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens SIRIUS 3RW40 motor-control system
Part number	3RW4076-6BB44

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Technical Specifications

Technical values below are limited to the named Siemens product record.

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
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
Operational-voltage tolerance	-15% to +10%
Operational frequency	50 to 60 Hz

PARAMETER	VALUE
Frequency tolerance	-10% to +10%
Control supply	230 V AC at 50/60 Hz
Control-supply tolerance	-15% to +10%
Minimum load	20%
Minimum adjustable motor current	207 A
Continuous-duty current at 40 degC	115% of I _e
Typical operating power loss	165 W
Rated insulation voltage	600 V
Pollution degree	3 according to IEC 60947-4-2
Integrated bypass contact system	Yes
Motor overload protection	Yes
External reset	Yes
Inside-delta connection	No
Preferred successor	3RW5076-6AB14

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	three-phase motor and branch protection
Companion hardware	230 V AC control circuit
Field connection	main bar and auxiliary screw terminals
Primary system function	Integrates a bypass contact system for normal running
Controlled acceptance duty	3RW4076-6BB44 controlled motor acceleration

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System Role and Architecture

three-phase motor power plus control and auxiliary status circuits

FUNCTION 1

Integrates a bypass contact system for normal running

FUNCTION 2

Provides electronic device and motor-overload protection

FUNCTION 3

Supports adjustable current limiting and external reset

FUNCTION 4

Provides dedicated run, bypass and overload/failure status contacts

Matched system components

- three-phase motor and branch protection
- 230 V AC control circuit
- main bar and auxiliary screw terminals
- machine control and status circuits

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	three-phase motor and branch protection
Companion hardware	230 V AC control circuit
Field connection	main bar and auxiliary screw terminals
Primary system function	Integrates a bypass contact system for normal running
Controlled acceptance duty	3RW4076-6BB44 controlled motor acceleration

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3RW4076-6BB44 / 3RW4076-6BB44 recorded
Physical interface	three-phase motor and branch protection
Companion check	230 V AC control circuit
Functional proof	Integrates a bypass contact system for normal running
Application test	3RW4076-6BB44 controlled motor acceleration

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 3SK2122-1AA10	SIRIUS safety relay basic unit	View Siemens 3SK2122-1AA10 page
Siemens 3RN2011-1BA30	SIRIUS thermistor motor-protection relay	View Siemens 3RN2011-1BA30 page
Siemens 3TY7540-0A	Main contacts for 3TF54 contactors	View Siemens 3TY7540-0A page
Siemens 3RT6015-1BB41	SIRIUS power contactor	View Siemens 3RT6015-1BB41 page
Siemens 6EP1333-1LB00	SITOP PSU100L 24 V DC power supply	View Siemens 6EP1333-1LB00 page
Siemens 6EP1336-3BA00	SITOP modular power supply	View Siemens 6EP1336-3BA00 page
Siemens 6EP1337-3BA00	SITOP power supply	View Siemens 6EP1337-3BA00 page
Siemens 6EP1961-3BA21	SITOP electronic selectivity module	View Siemens 6EP1961-3BA21 page

MANUFACTURER SOURCE RECORD

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

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