

81004-286-52-R

Matched Set of Two 400 A SGCTs

Allen-Bradley 81004-286-52-R is the exact manufacturer-listed matched set of two 400 a sgcts for the documented installed system.

BRAND	Allen-Bradley	FAMILY	Allen-Bradley PowerFlex 7000
PART	81004-286-52-R	SYSTEM ROLE	Uses the official 400 A SGCT execution

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MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide
7000-TG002L-EN-P, February 2020

Product Overview

SYSTEM FUNCTION

Allen-Bradley 81004-286-52-R is the exact manufacturer-listed matched set of two 400 a sgcts for the documented installed system.

FUNCTION 1

Uses the official 400 A SGCT execution

FUNCTION 2

Supplies 2 devices under one exact spare-part number

FUNCTION 3

Supports the PowerFlex 7000 power-electronics section

FUNCTION 4

Retains device identity during controlled drive maintenance

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Allen-Bradley PowerFlex 7000
Primary interface	Uses the official 400 A SGCT execution
Engineering context	Install only after the medium-voltage drive is isolated and the stored energy is proven discharged. Preserve the installed device position, cooling arrangement, gate connections and mechanical clamping record, then complete the manufacturer commissioning sequence before motor operation.
Commissioning duty	Complete controlled drive tests before returning the motor system to automatic service.

TECHNICAL NOTE

Install only after the medium-voltage drive is isolated and the stored energy is proven discharged. Preserve the installed device position, cooling arrangement, gate connections and mechanical clamping record, then complete the manufacturer commissioning sequence before motor operation.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Device type	SGCT	Supplied device count	2
Current rating	400 A	Drive family	PowerFlex 7000

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Allen-Bradley 2711P-B7C4D1-A	Allen-Bradley product	View Allen-Bradley 2711P-B7C4D1-A page
Allen-Bradley 2097-V34PR5-LM	Allen-Bradley product	View Allen-Bradley 2097-V34PR5-LM page
Allen-Bradley 2094-BM01-M	Allen-Bradley product	View Allen-Bradley 2094-BM01-M page
Allen-Bradley 2094-BC02-M02-S	Allen-Bradley product	View Allen-Bradley 2094-BC02-M02-S page
Allen-Bradley 2093-AM01	Allen-Bradley product	View Allen-Bradley 2093-AM01 page
Allen-Bradley 1794-PS13	Allen-Bradley product	View Allen-Bradley 1794-PS13 page
Allen-Bradley 1794-OV32	Allen-Bradley product	View Allen-Bradley 1794-OV32 page
Allen-Bradley 1794-OM8	Allen-Bradley product	View Allen-Bradley 1794-OM8 page

ENGINEERING BOUNDARY

Confirm Allen-Bradley 81004-286-52-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

Applications and Precautions

Common Applications

PowerFlex 7000 converter maintenance

Restores the documented SGCT position in the medium-voltage converter power section.

Planned semiconductor replacement

Uses the exact 400 A and 2-device supply configuration during controlled maintenance.

Drive power-stack restoration

Returns the approved power-electronics assembly to its documented component identity.

Post-repair functional verification

Supports controlled checks of gate connections, cooling condition and drive diagnostics.

Product Precautions

- 1

Confirm Allen-Bradley 81004-286-52-R, the 400 A marking and 2-device supply configuration before work.
- 2

Isolate the medium-voltage input and follow the documented discharge and lockout sequence.
- 3

Use ESD-safe handling and protect the semiconductor surfaces and gate connection points.
- 4

Record the installed orientation, hardware, clamping arrangement and connection positions before removal.
- 5

Inspect the cooling path and adjacent power components without transferring identity from another drive execution.
- 6

Reproduce the documented gate and power connections with the approved hardware arrangement.
- 7

Energize only through the PowerFlex 7000 commissioning sequence and monitor diagnostics.
- 8

Complete controlled drive tests before returning the motor system to automatic service.

IMPORTANT NOTICE

Confirm Allen-Bradley 81004-286-52-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	81004-286-52-R
Configuration	Energize only through the PowerFlex 7000 commissioning sequence and monitor diagnostics.
Functional release	Complete controlled drive tests before returning the motor system to automatic service.

Engineer FAQ

Q1 What does Allen-Bradley 81004-286-52-R contain?

The official PowerFlex 7000 list identifies a matched set of two 400 A SGCT devices.

Q3 Which paired-position record is required before removing Allen-Bradley 81004-286-52-R?

Record both device positions, orientations, gate connections, power interfaces, clamping parts and cooling relationships.

Q5 What should be checked on the 400 A markings of Allen-Bradley 81004-286-52-R?

Verify the full catalog number, current class and matched-pair description against the installed PowerFlex 7000 record.

Q7 What precedes energization after fitting Allen-Bradley 81004-286-52-R?

Confirm both mechanical installations, cooling paths, gate and power connections before starting the approved commissioning sequence.

Q2 How is Allen-Bradley 81004-286-52-R different from the 800 A and 1500 A SGCT spares?

It is the documented two-device 400 A matched execution, with a different catalog number and installed application.

Q4 Can only one half of Allen-Bradley 81004-286-52-R be substituted from unrelated stock?

Do not separate or mix the documented matched pair unless the manufacturer service procedure explicitly authorizes it.

Q6 How should Allen-Bradley 81004-286-52-R be protected during installation?

Use ESD-safe handling and protect both devices' semiconductor surfaces, gate terminals and paired identity.

Q8 Which acceptance evidence belongs to Allen-Bradley 81004-286-52-R?

Retain the matched-pair identity, two-position as-left record, diagnostics and controlled PowerFlex 7000 functional-test results.

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