

INDUSTRIAL AUTOMATION PRODUCT

22B-D6P0N104

PowerFlex 40 AC Drive

Allen-Bradley 22B-D6P0N104 is a PowerFlex 40 adjustable-frequency AC drive for 380 to 480 V AC three-phase input. It provides a 6 A, 2.2 kW (3 HP) motor-control output with an integral brake IGBT and RS-485 communication.

IDENTITY	VERIFIED VALUE
Manufacturer	Allen-Bradley
System family	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Part number	22B-D6P0N104
Product role	Controls a 2.2 kW three-phase AC motor
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Before removing 22B-D6P0N104, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

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22B-D6P0N104

Technical Specifications

Technical values below are limited to the named Allen-Bradley product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Catalog number	22B-D6P0N104	Operator interface	LED display with keypad
Input voltage	380 to 480 V AC, three-phase	Communication	RS-485
Input frequency	50/60 Hz	Brake IGBT	Included
Output current	6 A	CE filter	Not included
Output power	2.2 kW / 3 HP	Lifecycle status	Discontinued 2025-06-30
Frame	B	Official replacement	25B-D6P0N104
Enclosure	IP20 / NEMA open		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Primary system role	Controls a 2.2 kW three-phase AC motor
Connection boundary	Before removing 22B-D6P0N104, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.
Controlled acceptance duty	Compact machine speed control

ENGINEERING BOUNDARY

Confirm 22B-D6P0N104, Frame B, 380-480 V supply, 6 A and 2.2 kW motor duty, motor and brake wiring, RS-485 settings, protective grounding, parameter backup, firmware compatibility and controlled direction, speed and stop-test results before commissioning.

Pre-Installation Checks

- 1

Confirm 22B-D6P0N104, Frame B and the full drive nameplate before work.
- 2

Place the driven machine and connected process in the approved maintenance state.
- 3

Isolate three-phase power and prove the DC bus discharged.
- 4

Record motor, brake, control, RS-485 and protective-earth conductors.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	22B-D6P0N104
Installed host	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

Allen-Bradley 22B-D6P0N104 is a PowerFlex 40 adjustable-frequency AC drive for 380 to 480 V AC three-phase input. It provides a 6 A, 2.2 kW (3 HP) motor-control output with an integral brake IGBT and RS-485 communication.

FUNCTION 1
Controls a 2.2 kW three-phase AC motor

FUNCTION 2
Provides integral keypad and LED status access

FUNCTION 3
Supports RS-485 drive communication

FUNCTION 4
Includes the braking transistor for the documented motor-control arrangement

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
2	380 to 480 V AC, three-phase
3	Compact machine speed control
4	Before removing 22B-D6P0N104, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Interface role	Controls a 2.2 kW three-phase AC motor
Field / power context	22B-D6P0N104 is installed only in the documented Allen-Bradley PowerFlex 40 adjustable-frequency AC drive arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.
Commissioning evidence	Verify motor direction, current, speed control, interlocks and stop functions before release.

Installation and Connection Checks

1Back up every parameter, speed reference, I/O assignment and network setting.

2Match the 380-480 V, 6 A, 2.2 kW drive execution and enclosure.

3Restore wiring and parameters before controlled energization.

4Verify motor direction, current, speed control, interlocks and stop functions before release.

MANUFACTURER SOURCE RECORD

PowerFlex 40 AC Drive product record and publications
Rockwell Automation 22-PP001, 22B-SR001, 22B-QS001 and 22B-UM001

Applications and Engineering Context

Compact machine speed control

Regulates a three-phase motor in a documented stand-alone machine.

Conveyor drive service

Restores a matched PowerFlex 40 motor-control position.

Pump and fan control

Provides configured acceleration, deceleration and speed commands.

PowerFlex 40 migration planning

Preserves the existing drive record before transition to the official replacement family.

TECHNICAL NOTE

Before removing 22B-D6P0N104, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	22B-D6P0N104 recorded
Host / carrier	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Physical interface	Controls a 2.2 kW three-phase AC motor
Configuration	Restore wiring and parameters before controlled energization.
Functional proof	Verify motor direction, current, speed control, interlocks and stop functions before release.

IMPORTANT NOTICE

Confirm 22B-D6P0N104, Frame B, 380-480 V supply, 6 A and 2.2 kW motor duty, motor and brake wiring, RS-485 settings, protective grounding, parameter backup, firmware compatibility and controlled direction, speed and stop-test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	22B-D6P0N104
Approved role	Compact machine speed control
Final validation	Verify motor direction, current, speed control, interlocks and stop functions before release.

Engineering Precautions

1	Confirm 22B-D6P0N104, Frame B and the full drive nameplate before work.	2	Place the driven machine and connected process in the approved maintenance state.
3	Isolate three-phase power and prove the DC bus discharged.	4	Record motor, brake, control, RS-485 and protective-earth conductors.
5	Back up every parameter, speed reference, I/O assignment and network setting.	6	Match the 380-480 V, 6 A, 2.2 kW drive execution and enclosure.
7	Restore wiring and parameters before controlled energization.	8	Verify motor direction, current, speed control, interlocks and stop functions before release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
1756-PA75	ControlLogix power supply	View 1756-PA75 page
1756-ENBT/A	EtherNet/IP bridge	View 1756-ENBT/A page
1756-L71	ControlLogix controller	View 1756-L71 page
1756-A13	ControlLogix chassis	View 1756-A13 page
1794-IE8	FLEX analog input module	View 1794-IE8 page
1756-IF8	ControlLogix analog input module	View 1756-IF8 page
1756-OF8	ControlLogix analog output module	View 1756-OF8 page
1756-A10	ControlLogix chassis	View 1756-A10 page

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