

# 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.

|       |               |             |                                                          |
|-------|---------------|-------------|----------------------------------------------------------|
| BRAND | Allen-Bradley | FAMILY      | Allen-Bradley PowerFlex 40 adjustable-frequency AC drive |
| PART  | 22B-D6P0N104  | SYSTEM ROLE | Controls a 2.2 kW three-phase AC motor                   |

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22B-D6P0N104

### MANUFACTURER SOURCE RECORD

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

# Product Overview

## SYSTEM FUNCTION

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

## System Components

| COMPONENT           | DOCUMENTED ROLE                                                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host / carrier      | Allen-Bradley PowerFlex 40 adjustable-frequency AC drive                                                                                                                                                                                                                                                         |
| Primary interface   | Controls a 2.2 kW three-phase AC motor                                                                                                                                                                                                                                                                           |
| Engineering 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 duty  | Verify motor direction, current, speed control, interlocks and stop functions before release.                                                                                                                                                                                                                    |

## 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.

# Technical Data

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

## Related Products on Apter Power

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

### 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.

# Applications and Precautions

## Common Applications

### Compact machine speed control

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

### Pump and fan control

Provides configured acceleration, deceleration and speed commands.

### Conveyor drive service

Restores a matched PowerFlex 40 motor-control position.

### PowerFlex 40 migration planning

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

## Product 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.

## 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.

| ACCEPTANCE CHECK   | REQUIRED EVIDENCE                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------|
| Identity           | 22B-D6P0N104                                                                                  |
| Configuration      | Restore wiring and parameters before controlled energization.                                 |
| Functional release | Verify motor direction, current, speed control, interlocks and stop functions before release. |

## Engineer FAQ

### Q1 What identity details must be checked before 22B-D6P0N104 is removed?

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.

### Q3 Which Allen-Bradley PowerFlex 40 adjustable-frequency AC drive interfaces must be recorded for 22B-D6P0N104?

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.

### Q5 How should the installed configuration be restored after fitting 22B-D6P0N104?

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

### Q7 What replacement records should be retained for 22B-D6P0N104?

Confirm 22B-D6P0N104, Frame B and the full drive nameplate before work. Back up every parameter, speed reference, I/O assignment and network setting.

### Q2 How does 22B-D6P0N104 perform its documented powerflex 40 ac drive role?

Controls a 2.2 kW three-phase AC motor. It provides a 6 A, 2.2 kW (3 HP) motor-control output with an integral brake IGBT and RS-485 communication.

### Q4 What isolation and ESD controls apply while handling 22B-D6P0N104?

Place the driven machine and connected process in the approved maintenance state. Isolate three-phase power and prove the DC bus discharged.

### Q6 Which diagnostic evidence confirms that 22B-D6P0N104 is recognized correctly?

Restore wiring and parameters before controlled energization.

### Q8 What final acceptance test is required before 22B-D6P0N104 returns to service?

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

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