

22B-D6P0N104

PowerFlex 40 AC Drive

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

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.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Allen-Bradley article.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



22B-D6P0N104

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 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.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	22B-D6P0N104
Host / carrier	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Primary system role	Controls a 2.2 kW three-phase AC motor
Acceptance boundary	Verify motor direction, current, speed control, interlocks and stop functions before release.
Source record	PowerFlex 40 AC Drive product record and publications

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

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.

- 1 Back up every parameter, speed reference, I/O assignment and network setting.
- 2 Match the 380-480 V, 6 A, 2.2 kW drive execution and enclosure.
- 3 Restore wiring and parameters before controlled energization.
- 4 Verify motor direction, current, speed control, interlocks and stop functions before release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

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.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	22B-D6P0N104
Host match	Allen-Bradley PowerFlex 40 adjustable-frequency AC drive
Connection proof	Match the 380-480 V, 6 A, 2.2 kW drive execution and enclosure.
Configuration proof	Restore wiring and parameters before controlled energization.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

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

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

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.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER 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
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

MANUFACTURER SOURCE RECORD

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

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