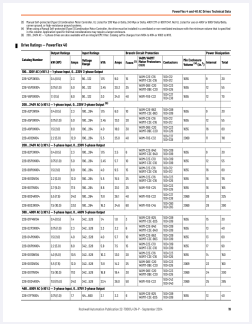
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Allen Bradley 22B-D6P0N104

Powerflex 40 Ac Drive



PRODUCT	22B-D6P0N104
FAMILY	PowerFlex 40 adjustable frequency drives
FUNCTION	Powerflex 40 Ac Drive
STATUS	Verify exact configuration

Prepared by Amikon Limited from Allen Bradley manufacturer documentation. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Catalog Number	22B-D6P0N104
Input Supply	342–528 V AC, three phase
Nominal Motor Rating	2.2 kW / 3 HP
Continuous Output Current	6.0 A
Input Apparent Power	5.9 kVA
Input Current	7.5 A
Recommended Fuse	15 A

02 MOUNTING AND CONNECTION

- Apply the 6.0 A PowerFlex 40 rating to a documented 380–480 V three-phase motor circuit after confirming motor current, overload duty and branch protection.
- Restore the saved start, stop, reference, relay and DSI communication assignments while preserving the machine safety circuit.
- Confirm input apparent power: 5.9 kVA.
- Complete the documented acceptance check: Enter the motor nameplate data, complete autotune where approved, then test direction, acceleration, deceleration and full-load current.

03

MANUFACTURER INSTALLATION REFERENCE

Official manufacturer reference reproduced from Allen Bradley manufacturer documentation. Use the current source document and all referenced drawings and notes for installation.

(3) Manual Self-protected (Type E) Combination Motor Controller, UL Listed for 208 Wye or Delta, 240 Wye or Delta, 480Y/277 or 600Y/347. Not UL Listed for use on 480V or 600V Delta/Delta, corner ground, or high-resistance ground systems.
(4) When using a Manual Self-protected (Type E) Combination Motor Controller, the drive must be installed in a ventilated or non-ventilated enclosure with the minimum volume that is specified in this column. Application-specific thermal considerations may require a larger enclosure.
(5) 200...240V AC – 1-phase drives are also available with an integral EMC filter. Catalog suffix changes from N104 to N114 or N103 to N113.

Drive Ratings – PowerFlex 40

Catalog Number	Output Ratings		Input Ratings			Branch Circuit Protection				Power Dissipation	
	kW (HP)	Amps	Voltage Range	kVA	Amps	Fuses (1)	140M/140MT Motor Protectors (2)(3)	Contactors	Min Enclosure Volume (4) (in.^{3})	Internal	Total
100...120V AC (±10%) – 1-phase Input, 0...230V 3-phase Output											
22B-V2P3N104	0.4 (0.5)	2.3	90...132	1.15	9.0	15	140M-C2E-C16 140MT-C3E-C16	100-C12 100-E12	1655	9	30
22B-V5P0N104	0.75 (1.0)	5.0	90...132	2.45	20.3	35	140M-D8E-C20 140MT-D9E-C20	100-C23 100-E26	1655	12	55
22B-V6P0N104	1.1 (1.5)	6.0	90...132	3.0	24.0	40	140M-F8E-C32	100-C37 100-E38	1655	12	70
200...240V AC (±10%) – 1-phase Input, 0...230V 3-phase Output (5)											
22B-A2P3N104	0.4 (0.5)	2.3	180...264	1.15	6.0	10	140M-C2E-B63 140MT-C3E-B63	100-C09 100-E09	1655	9	30
22B-A5P0N104	0.75 (1.0)	5.0	180...264	2.45	12.0	20	140M-C2E-C16 140MT-C3E-C16	100-C12 100-E12	1655	12	55
22B-A8P0N104	1.5 (2.0)	8.0	180...264	4.0	18.0	30	140M-D8E-C20 140MT-D9E-C20	100-C23 100-E26	1655	16	80
22B-A012N104	2.2 (3.0)	12.0	180...264	5.5	25.0	40	140M-F8E-C32	100-C37 100-E38	2069	11	110
200...240V AC (±10%) – 3-phase Input, 0...230V 3-phase Output											
22B-B2P3N104	0.4 (0.5)	2.3	180...264	1.15	2.5	6	140M-C2E-B40 140MT-C3E-B40	100-C09 100-E09	1655	9	30
22B-B5P0N104	0.75 (1.0)	5.0	180...264	2.45	5.7	10	140M-C2E-C10 140MT-C3E-C10	100-C09 100-E09	1655	12	55
22B-B8P0N104	1.5 (2.0)	8.0	180...264	4.0	9.5	15	140M-C2E-C16 140MT-C3E-C16	100-C12 100-E12	1655	16	80
22B-B012N104	2.2 (3.0)	12.0	180...264	5.5	15.5	25	140M-C2E-C16 140MT-C3E-C16	100-C23 100-E26	1655	16	115
22B-B017N104	3.7 (5.0)	17.5	180...264	8.6	21.0	35	140M-F8E-C25	100-C23 100-E26	1655	16	165
22B-B024N104	5.5 (7.5)	24.0	180...264	11.8	26.1	40	140M-F8E-C32	100-C37 100-E38	2069	28	225
22B-B033N104	7.5 (10.0)	33.0	180...264	16.3	34.6	60	140M-F8E-C45	100-C60 100-E65	2069	28	290
380...480V AC (±10%) – 3-phase Input, 0...460V 3-phase Output											
22B-D1P4N104	0.4 (0.5)	1.4	342...528	1.4	1.8	3	140M-C2E-B25 140MT-C3E-B25	100-C09 100-E09	1655	15	30
22B-D2P3N104	0.75 (1.0)	2.3	342...528	2.3	3.2	6	140M-C2E-B40 140MT-C3E-B40	100-C09 100-E09	1655	13	40
22B-D4P0N104	1.5 (2.0)	4.0	342...528	4.0	5.7	10	140M-C2E-B63 140MT-C3E-B63	100-C09 100-E09	1655	13	60
22B-D6P0N104	2.2 (3.0)	6.0	342...528	5.9	7.5	15	140M-C2E-C10 140MT-C3E-C10	100-C09 100-E09	1655	17	90
22B-D010N104	4.0 (5.0)	10.5	342...528	10.3	13.0	20	140M-C2E-C16 140MT-C3E-C16	100-C23 100-E26	1655	14	150
22B-D012N104	5.5 (7.5)	12.0	342...528	11.8	14.2	25	140M-D8E-C20 140MT-D9E-C20	100-C23 100-E26	2069	23	160
22B-D017N104	7.5 (10.0)	17.0	342...528	16.8	18.4	30	140M-D8E-C20 140MT-D9E-C20	100-C23 100-E26	2069	24	200
22B-D024N104	11.0 (15.0)	24.0	342...528	23.4	26.0	50	140M-F8E-C32	100-C43 100-E40	2069	25	285
460...600V AC (±10%) – 3-phase Input, 0...575V 3-phase Output											
22B-E1P7N104	0.75 (1.0)	1.7	414...660	2.1	2.3	6	140M-C2E-B25 140MT-C3E-B25	100-C09 100-E09	1655	13	40

04 CABLE ROUTING AND CONNECTION

- Restore the saved start, stop, reference, relay and DSI communication assignments while preserving the machine safety circuit.
- Restore the documented recommended fuse and verify 15 A.
- Support all cables, connectors or mechanical interfaces without strain.
- Inspect shields, earth paths, fasteners and adjacent hardware before service.

05 INITIAL SYSTEM CHECKS

- Confirm exact model identity and compatible system components before energizing.
- Check the saved configuration against the controlled site requirements.
- Enter the motor nameplate data, complete autotune where approved, then test direction, acceleration, deceleration and full-load current.
- Record the installed model, baseline values and final status.

06 CONTROLLED DOCUMENTS

Official source	Allen Bradley manufacturer documentation
Product record	22B-D6P0N104
Manufacturer	Allen Bradley
Support	INFO@AMIKON.CN