

Isolation Transformers for PowerFlex 400 - IP32, NEMA/UL Type 3R Standalone, 4...6% Nominal Impedance

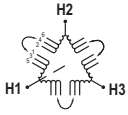


Diagram 1

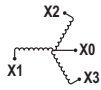


Diagram 2

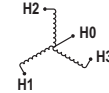
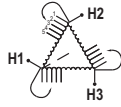


Diagram 3
230V Primary, 460V Secondary Only

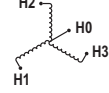
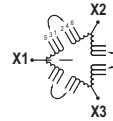


Diagram 4
230V Primary, 460V Secondary Only

Rating		Wiring Diagram	208V, 60 Hz, Three-Phase Secondary	230V, 60 Hz, Three-Phase Secondary				460V, 60 Hz, Three-Phase Secondary		
			208V Primary	230V Primary	460V Primary	575V Primary	230V Primary	460V Primary	575V Primary	
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	
2.2	3.0	1/3	1321-3TW005-XX	1321-3TW005-AA	1321-3TW005-BA	1321-3TW005-CA	1321-3TW005-AB	1321-3TW005-BB	1321-3TW005-CB	
4.0	5.0	1/3	1321-3TW007-XX	1321-3TW007-AA	1321-3TW007-BA	1321-3TW007-CA	1321-3TW007-AB	1321-3TW007-BB	1321-3TW007-CB	
5.5	7.5	1/3	1321-3TW011-XX	1321-3TW011-AA	1321-3TW011-BA	1321-3TW011-CA	1321-3TW011-AB	1321-3TW011-BB	1321-3TW011-CB	
7.5	10	1/3	1321-3TW014-XX	1321-3TW014-AA	1321-3TW014-BA	1321-3TW014-CA	1321-3TW014-AB	1321-3TW014-BB	1321-3TW014-CB	
11	15	2/4	1321-3TW020-XX	1321-3TW020-AA	1321-3TW020-BA	1321-3TW020-CA	1321-3TW020-AB	1321-3TW020-BB	1321-3TW020-CB	
15	20	2/4	1321-3TW027-XX	1321-3TW027-AA	1321-3TW027-BA	1321-3TW027-CA	1321-3TW027-AB	1321-3TW027-BB	1321-3TW027-CB	
18.5	25	2/4	1321-3TW034-XX	1321-3TW034-AA	1321-3TW034-BA	1321-3TW034-CA	1321-3TW034-AB	1321-3TW034-BB	1321-3TW034-CB	
22	30	2/4	-	1321-3TW040-AA	1321-3TW040-BA	1321-3TW040-CA	1321-3TW040-AB	1321-3TW040-BB	1321-3TW040-CB	
30	40	2/4	-	1321-3TW051-AA	1321-3TW051-BA	1321-3TW051-CA	1321-3TW051-AB	1321-3TW051-BB	1321-3TW051-CB	
37	50	2/4	-	1321-3TH063-AA	1321-3TH063-BA	-	1321-3TH063-AB	1321-3TH063-BB	-	
45	60	2/4	-	-	-	-	1321-3TH075-AB	1321-3TH075-BB	-	
55	75	2/4	-	-	-	-	1321-3TH093-AB	1321-3TH093-BB	-	
75	100	2/4	-	-	-	-	1321-3TH118-AB	1321-3TH118-BB	-	
90	125	2/4	-	-	-	-	1321-3TH145-AB	1321-3TH145-BB	-	
110	150	2/4	-	-	-	-	1321-3TH175-AB	1321-3TH175-BB	-	
132	200	2/4	-	-	-	-	1321-3TH220-AB	1321-3TH220-BB	-	
160	250	2/4	-	-	-	-	1321-3TH275-AB	1321-3TH275-BB	-	
200	300	2/4	-	-	-	-	1321-3TH330-AB	1321-3TH330-BB	-	
250	350	2/4	-	-	-	-	1321-3TH440-AB	1321-3TH440-BB	-	

Input & Output Line Reactors - 3% Impedance

Voltage	Drive Ratings			IP00 * (NEMA/UL Open Type)	IP11 * (NEMA/UL Type 1)	Used with PowerFlex Drive				
	kW	Hp	Amps	Cat. No.	Cat. No.	4M	4	40	40P	400
200...240V, 60 Hz, Three-Phase	0.2	0.25	2.0	1321-3R2-A	-	✓	✓			
	0.4	0.5	4.0	1321-3R4-B	-	✓	✓	✓	✓	
	0.75	1	8.0	1321-3R8-B	-	✓	✓	✓	✓	
	1.5	2	8.0	1321-3R8-A	-	✓	✓	✓	✓	
	2.2	3	12	1321-3R12-A	1321-3RA12-A	✓	✓	✓	✓	✓
	3.7	5	17.5	1321-3R18-A	1321-3RA18-A	✓	✓	✓	✓	✓
	5.5	7.5	24	1321-3R25-A	1321-3RA25-A	✓		✓	✓	✓
	7.5	10	33	1321-3R35-A	1321-3RA35-A	✓		✓	✓	✓
	11	15	49	1321-3R45-A	1321-3RA45-A					✓
	15	20	65	1321-3R55-A	1321-3RA55-A					✓
	18.5	25	75	1321-3R80-A	1321-3RA80-A					✓
	22	30	90	1321-3R80-A	1321-3RA80-A					✓
	30	40	120	1321-3R100-A	1321-3RA100-A					✓
37	50	145	1321-3R130-A	1321-3RA130-A					✓	
380...480V, 60 Hz, Three-Phase	0.4	0.5	2.0	1321-3R2-B	-	✓	✓	✓	✓	
	0.75	1	4.0	1321-3R4-C	-	✓	✓	✓	✓	
	1.5	2	4.0	1321-3R4-B	-	✓	✓	✓	✓	
	2.2	3	6.0	1321-3R8-C	1321-3RA8-C	✓	✓	✓	✓	✓
	4.0	5	10.5	1321-3R8-B	1321-3RA8-B	✓	✓	✓	✓	✓
	5.5	7.5	12	1321-3R12-B	1321-3RA12-B	✓		✓	✓	✓
	7.5	10	17	1321-3R18-B	1321-3RA18-B	✓		✓	✓	✓
	11	15	22	1321-3R25-B	1321-3RA25-B	✓		✓	✓	✓
	15	20	30	1321-3R35-B	1321-3RA35-B					✓
	18.5	25	38	1321-3R35-B	1321-3RA35-B					✓
	22	30	45.5	1321-3R45-B	1321-3RA45-B					✓
	30	40	60	1321-3R55-B	1321-3RA55-B					✓
	37	50	72	1321-3R80-B	1321-3RA80-B					✓
	45	60	88	1321-3R80-B	1321-3RA80-B					✓
	55	75	105	1321-3R100-B	1321-3RA100-B					✓
	75	100	142	1321-3R130-B	1321-3RA130-B					✓
90	125	170	1321-3R160-B	1321-3RA160-B					✓	
110	150	208	1321-3R200-B	1321-3RA200-B					✓	
500...600V, 60 Hz, Three-Phase	0.75	1	2.0	1321-3R2-B	-			✓	✓	
	1.5	2	4.0	1321-3R4-C	-			✓	✓	
	2.2	3	4.0	1321-3R4-B	-			✓	✓	
	4.0	5	8.0	1321-3R8-C	-			✓	✓	
	5.5	7.5	12	1321-3R12-B	-			✓	✓	
	7.5	10	12	1321-3R12-B	-			✓	✓	
	11	15	18	1321-3R18-B	-			✓	✓	

* Catalog numbers listed are for 3% impedance. 5% impedance reactor types are also available. Refer to publication 1321-TD001....

PowerFlex 70 AC Drive



The PowerFlex 70 offers a compact package of power, control and operator interface, designed to meet the demands for space, simplicity and reliability. This drive provides a broad spectrum of features, allowing you to easily integrate it into your architecture and configure it for most application needs.

Ratings	200...240V: 0.37...18.5 kW / 0.5...25 Hp / 2.2...70 A 380...480V: 0.37...37 kW / 0.5...50 Hp / 1.1...72 A 500...600V: 0.37...37 kW / 0.5...50 Hp / 0.9...52 A
Motor Control	<ul style="list-style-type: none"> V/Hz control Sensorless Vector Control Flux Vector Control
Communications	Common Industrial Protocol
User Interface	HIM (option)
Enclosures	IP20, Flange Mount, IP66 / NEMA 4X
Safety	DriveGuard Safe Torque-Off / EN 954-1 Cat. 3
Additional Features	<ul style="list-style-type: none"> Speed and torque control with and without encoder feedback Pjump and Traverse for Fibers application
Certifications	<ul style="list-style-type: none"> UL cUL IEC (Designed to Meet) CE C-Tick (excluding 600V) NSF Certified (IP66, NEMA/UL Type 4X/12 only) TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option RINA Certified ABS Lloyd's Register SEMI F47
Options	See pages 64... 86
Additional Information	PowerFlex 70 Technical Data, publication 20A-TD001 PowerFlex 70 User Manual, publication 20A-UM001

Panel Mount - IP 20, NEMA/UL Type 1, No HIM

200...240V AC, Three-Phase Drives

240V AC Input						208V AC Input ☼						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
2.2	2.4	3.3	0.5	0.33	20AB2P2A0AYNNNCO	2.5	2.7	3.7	0.37	0.25	20AB2P2A0AYNNNCO	N	A
2.2	2.4	3.3	0.5	0.33	20AB2P2A0AYNANCO	2.5	2.7	3.7	0.37	0.25	20AB2P2A0AYNANCO	Y	B
4.2	4.8	6.4	1	0.75	20AB4P2A0AYNNNCO	4.8	5.5	7.4	0.75	0.55	20AB4P2A0AYNNNCO	N	A
4.2	4.8	6.4	1	0.75	20AB4P2A0AYNANCO	4.8	5.5	7.4	0.75	0.55	20AB4P2A0AYNANCO	Y	B
6.8	9	12	2	1.5	20AB6P8A0AYNNNCO	7.8	10.3	13.8	1.5	1.1	20AB6P8A0AYNNNCO	N	B
6.8	9	12	2	1.5	20AB6P8A0AYNANCO	7.8	10.3	13.8	1.5	1.1	20AB6P8A0AYNANCO	Y	B
9.6	10.6	14.4	3	2	20AB9P6A0AYNNNCO	11	12.1	16.5	2.2	1.5	20AB9P6A0AYNNNCO	N	B
9.6	10.6	14.4	3	2	20AB9P6A0AYNANCO	11	12.1	16.5	2.2	1.5	20AB9P6A0AYNANCO	Y	B
15.3	17.4	23.2	5	3	20AB015A0AYNANCO	17.5	19.2	26.2	4	3	20AB015A0AYNANCO	Y	C
22	24.2	33	7.5	5	20AB022A0AYNANCO	25.3	27.8	37.9	5.5	4	20AB022A0AYNANCO	Y	D
28	33	44	10	7.5	20AB028A0AYNANCO	32.2	37.9	50.6	7.5	5.5	20AB028A0AYNANCO	Y	D
42	46.2	63	15	10	20AB042A0AYNANCO	43	55.5	74	11	7.5	20AB042A0AYNANCO	Y	D
54	63	84	20	15	20AB054A0AYNANCO	62.1	72.4	96.6	15	11	20AB054A0AYNANCO	Y	E
70	81	108	25	20	20AB070A0AYNANCO	78.2	93.1	124	18.5	15	20AB070A0AYNANCO	Y	E

☼ Drive must be programmed to lower voltage to obtain the currents shown.

380...480V AC, Three-Phase Drives

480V AC Input						400V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps			Normal Duty kW	Heavy Duty kW	Cat. No.		
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.					
1.1	1.2	1.6	0.5	0.33	20AD1P1A0AYNNNC0	1.3	1.4	1.9	0.37	0.25	20AC1P3A0AYNNNC0	N	A
1.1	1.2	1.6	0.5	0.33	20AD1P1A0AYNANC0	1.3	1.4	1.9	0.37	0.25	20AC1P3A0AYNANC0	Y	B
2.1	2.4	3.2	1	0.75	20AD2P1A0AYNNNC0	2.1	2.4	3.2	0.75	0.55	20AC2P1A0AYNNNC0	N	A
2.1	2.4	3.2	1	0.75	20AD2P1A0AYNANC0	2.1	2.4	3.2	0.75	0.55	20AC2P1A0AYNANC0	Y	B
3.4	4.5	6	2	1.5	20AD3P4A0AYNNNC0	3.5	4.5	6	1.5	1.1	20AC3P5A0AYNNNC0	N	A
3.4	4.5	6	2	1.5	20AD3P4A0AYNANC0	3.5	4.5	6	1.5	1.1	20AC3P5A0AYNANC0	Y	B
5	5.5	7.5	3	2	20AD5P0A0AYNNNC0	5	5.5	7.5	2.2	1.5	20AC5P0A0AYNNNC0	N	B
5	5.5	7.5	3	2	20AD5P0A0AYNANC0	5	5.5	7.5	2.2	1.5	20AC5P0A0AYNANC0	Y	B
8	8.8	12	5	3	20AD8P0A0AYNNNC0	8.7	9.9	13.2	4	3	20AC8P7A0AYNNNC0	N	B
8	8.8	12	5	3	20AD8P0A0AYNANC0	8.7	9.9	13.2	4	3	20AC8P7A0AYNANC0	Y	B
11	12.1	16.5	7.5	5	20AD011A0AYNANC0	11.5	13	17.4	5.5	4	20AC011A0AYNANC0	Y	C
14	16.5	22	10	7.5	20AD014A0AYNANC0	15.4	17.2	23.1	7.5	5.5	20AC015A0AYNANC0	Y	C
22	24.2	33	15	10	20AD022A0AYNANC0	22	24.2	33	11	7.5	20AC022A0AYNANC0	Y	D
27	33	44	20	15	20AD027A0AYNANC0	30	33	45	15	11	20AC030A0AYNANC0	Y	D
34	40.5	54	25	20	20AD034A0AYNANC0	37	45	60	18.5	15	20AC037A0AYNANC0	Y	D
40	51	68	30	25	20AD040A0AYNANC0	43	56	74	22	18.5	20AC043A0AYNANC0	Y	D
52	60	80	40	30	20AD052A0AYNANC0	60	66	90	30	22	20AC060A0AYNANC0	Y	E
65	78	104	50	40	20AD065A0AYNANC0	72	90	120	37	30	20AC072A0AYNANC0	Y	E

500...600V AC, Three-Phase Drives

600V AC Input						with Filter	Frame Size
Output Amps			Normal Duty Hp	Heavy Duty Hp	Cat. No.		
Cont.	1 Min.	3 Sec.					
0.9	1	1.4	0.5	0.33	20AE0P9A0AYNNNC0	N	A
1.7	1.9	2.6	1	0.75	20AE1P7A0AYNNNC0	N	A
2.7	3.6	4.8	2	1	20AE2P7A0AYNNNC0	N	A
3.9	4.3	5.8	3	1.5	20AE3P9A0AYNNNC0	N	B
6.1	6.7	9.1	5	3	20AE6P1A0AYNNNC0	N	B
9	9.9	13.5	7.5	5	20AE9P0A0AYNNNC0	N	C
11	13.5	18	10	7.5	20AE011A0AYNNNC0	N	C
17	18.7	25.5	15	10	20AE017A0AYNNNC0	N	D
22	25.5	34	20	15	20AE022A0AYNNNC0	N	D
27	33	44	25	20	20AE027A0AYNNNC0	N	D
32	40.5	54	30	25	20AE032A0AYNNNC0	N	D
41	48	64	40	30	20AE041A0AYNANC0	N	E
52	61.5	82	50	40	20AE052A0AYNANC0	N	E