

PowerFlex 4-Class Options

**Dynamic Brakes Resistors**

Voltage	Drive Rating		Minimum Resistance	Resistance ⚡	Cat. No. †	Used with PowerFlex Drive				
	kW	Hp	Ohms ±10%	Ohms ±5%		4M	4	40	40P	400
100...120V, 50/60 Hz, Single-Phase	0.2	0.25	48	91	AK-R2-091P500		✓			
	0.4	0.5	48	91	AK-R2-091P500		✓	✓		
	0.75	1	48	91	AK-R2-091P500		✓	✓		
	1.1	1.5	48	91	AK-R2-091P500			✓		
200...240V, 50/60 Hz, Single-Phase	0.2	0.25	48	91	AK-R2-091P500		✓			
	0.4	0.5	48	91	AK-R2-091P500		✓	✓		
	0.75	1	48	91	AK-R2-091P500		✓	✓		
	1.5	2	48	91	AK-R2-091P500		✓	✓		
200...240V, 50/60 Hz, Three-Phase	2.2	3	32	47	AK-R2-047P500			✓		
	0.2	0.25	48	91	AK-R2-091P500		✓			
	0.4	0.5	48	91	AK-R2-091P500		✓	✓	✓	
	0.75	1	48	91	AK-R2-091P500		✓	✓	✓	
	1.5	2	48	91	AK-R2-091P500		✓	✓	✓	
	2.2	3	32	47	AK-R2-047P500		✓	✓	✓	
	3.7	5	19	47	AK-R2-047P500		✓	✓	✓	
5.5	7.5	13	30	AK-R2-030P1K2	✓		✓	✓		
7.5	10	10	30	AK-R2-030P1K2	✓		✓	✓		
380...480V, 50/60 Hz, Three-Phase	0.4	0.5	97	360	AK-R2-360P500		✓	✓	✓	
	0.75	1	97	360	AK-R2-360P500		✓	✓	✓	
	1.5	2	97	360	AK-R2-360P500		✓	✓	✓	
	2.2	3	97	120	AK-R2-120P1K2		✓	✓	✓	
	4.0	5	77	120	AK-R2-120P1K2		✓	✓	✓	
	5.5	7.5	55	120	AK-R2-120P1K2	✓		✓	✓	
	7.5	10	39	120	AK-R2-120P1K2	✓		✓	✓	
11	15	24	120	AK-R2-120P1K2 ❖	✓		✓	✓		
500...600V, 50/60 Hz, Three-Phase	0.75	1	120	360	AK-R2-360P500			✓	✓	
	1.5	2	120	360	AK-R2-360P500			✓	✓	
	2.2	3	82	120	AK-R2-120P1K2			✓	✓	
	4.0	5	82	120	AK-R2-120P1K2			✓	✓	
	5.5	7.5	51	120	AK-R2-120P1K2			✓	✓	
	7.5	10	51	120	AK-R2-120P1K2			✓	✓	
	11	15	51	120	AK-R2-120P1K2 ❖			✓	✓	

⚡ Verify resistor Ohms against minimum resistance for drive being used.

† Resistors listed are rated 5% duty cycle.

❖ Requires two resistors wired in parallel.

## Spare Parts

Description		Cat. No.	Used with PowerFlex Drive				
			4M	4	40	40P	400
Fan Replacement Kits	Fan Replacement Kit - Frame A	SK-U1-FAN1-A1		✓			
	Fan Replacement Kit - Frame B, 1 Fan	SK-U1-FAN1-B1		✓	✓	✓	
	Fan Replacement Kit - Frame B, 2 Fans	SK-U1-FAN2-B1		✓	✓	✓	
	Fan Replacement Kit - Frame A	SK-U1-FFAN1-A1	✓				
	Fan Replacement Kit - Frame B	SK-U1-FFAN1-B1	✓				
	Fan Replacement Kit - Frame C	SK-U1-FFAN1-C1	✓				
	Fan Replacement Kit - Frame C, 1 Fan	SK-U1-FAN1-C1			✓	✓	✓*
	Fan Replacement Kit - Frame C, 1 Fan, 15 Hp	SK-U1-FAN1-C2			✓	✓	✓*
	Fan Replacement Kit, NEMA 4X	SK-U1-FAN1-B4			✓		
	Fan Replacement Kit - Frame D, 2 Fans, B049...B090 & D038...D060 Ratings	SK-U1-FAN2-D1					✓
	Fan Replacement Kit - Frame E, 2 Fans, B120...B145 & D072...D142 Ratings	SK-U1-FAN2-E2					✓
	Fan Replacement Kit - Frame F, 2 Fans, IGBT, D170 & D208 Ratings	SK-U1-FAN2-F1					✓
	Fan Replacement Kit - Frame F, 1 Fan, Rectifier, D170 & D208 Ratings	SK-U1-FAN1-F2					✓
	Fan Replacement Kit - Frame F, 1 Fan, Choke, D170 & D208 Ratings	SK-U1-FAN1-F3					✓
	Fan Replacement Kit - Frame G, 1 Fan (Side), D260 & D310 Ratings	SK-U1-FAN1-G1					✓
	Fan Replacement Kit - Frame G, 2 Fans (Top), D260 & D310 Ratings	SK-U1-FAN1-G2					✓
	Fan Replacement Kit - Frame G, 4 Fans (Bottom), D260 & D310 Ratings	SK-U1-FAN4-G3					✓
	Fan Replacement Kit - Frame H, 1 Fan (Upper Side), D370 & D460 Ratings	SK-U1-FAN1-H1					✓
	Fan Replacement Kit - Frame H, 1 Fan (Middle Side), D370 & D460 Ratings	SK-U1-FAN1-H2					✓
	Fan Replacement Kit - Frame H, 4 Fans (Bottom), D370 & D460 Ratings	SK-U1-FAN4-H3					✓
Covers	Encoder Terminal Cover (All Frames)	SK-U1-DCVR4-EN				✓	
	Frame A Cover with Power Terminal Guard	SK-U1-ACVR1-A1		✓			
	Frame B Cover with Power Terminal Guard	SK-U1-ACVR1-B1		✓			
	Frame A Cover	SK-U1-FCVR1-A1	✓				
	Frame B Cover	SK-U1-FCVR1-B1	✓				
	Frame C Cover	SK-U1-FCVR1-C1	✓				
	Frame B Cover with Power Terminal Guard	SK-U1-BCVR1-B1			✓		
	Frame C Cover with Power Terminal Guard	SK-U1-BCVR1-C1			✓		
	Frame B Cover, NEMA 4X	SK-U1-BCVR1-B4			✓		
	Frame B Cover with Power Terminal Guard	SK-U1-DCVR3-B1					✓
	Frame C Cover with Power Terminal Guard	SK-U1-DCVR3-C1					✓
	Frame C Cover with Power Terminal Guard	SK-U1-CCVR1-C1					✓
	Frame D Cover	SK-U1-CCVR1-D1					✓
	Frame E Cover	SK-U1-CCVR1-E1					✓
	Frame F Cover	SK-U1-CCVR1-F1					✓
	Frame G Cover	SK-U1-CCVR1-G1					✓
	Frame H Cover	SK-U1-CCVR1-H1					✓
	NEMA 4X Replacement Conduit Plugs	SK-U1-PLUGS-B4			✓		

\* 3...10 HP @ 200...240V AC and 3...10 HP @ 380...480V AC

\* 15...20 HP @ 380...480V AC

PowerFlex 4-Class Options

**EMC Filters (Required to Meet CE Certification)**

Drive Ratings			PowerFlex 4M		PowerFlex 4		PowerFlex 40/40P		PowerFlex 400
Input Voltage	kW	Hp	S Type Filter	L Type Filter	S Type Filter	L Type Filter	S Type Filter	L Type Filter	IP00 (NEMA/UL Type Open)
			Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *
100...120V, 50/60 Hz, Single-Phase	0.2	0.25	-	22F-RF010-AL	-	22-RF010-AL	-	-	-
	0.4	0.5	-	22F-RF010-AL	-	22-RF010-AL	-	22-RF018-BL ♣	-
	0.75	1	-	22F-RF025-BL	-	22-RF018-BL	-	22-RF018-BL ♣	-
	1.1	1.5	-	22F-RF025-BL	-	22-RF025-CL §	-	22-RF018-BL ♣	-
200...240V, 50/60 Hz, Single-Phase	0.2	0.25	⊗	22F-RF010-AL	⊗	22-RF010-AL	-	-	-
	0.4	0.5	⊗	22F-RF010-AL	⊗	22-RF010-AL	⊗	22-RF018-BL ♣	-
	0.75	1	⊗	22F-RF010-AL	⊗	22-RF010-AL	⊗	22-RF018-BL ♣	-
	1.5	2	⊗	22F-RF025-BL	⊗	22-RF018-BL	⊗	22-RF018-BL ♣	-
200...240V, 50/60 Hz, Single-Phase, NO BRAKE	0.2	0.25	-	-	⊗	22-RF010-AL	-	-	-
	0.4	0.5	-	-	⊗	22-RF010-AL	-	-	-
	0.75	1	-	-	⊗	22-RF010-AL	-	-	-
	1.5	2	-	-	⊗	22-RF018-BL	-	-	-
200...240V, 50/60 Hz, Three-Phase	2.2	3	-	-	⊗	22-RF025-CL §	-	-	-
	0.2	0.25	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	-	-	-
	0.4	0.5	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	22-RF021-BS >	22-RF021-BL	-
	0.75	1	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	22-RF021-BS >	22-RF021-BL	-
	1.5	2	22F-RF9P5-AS	22F-RF9P5-AL	22-RF9P5-AS	22-RF9P5-AL	22-RF021-BS >	22-RF021-BL	-
	2.2	3	22F-RF021-BS	22F-RF021-BL	22-RF021-BS	22-RF021-BL	22-RF021-BS >	22-RF021-BL	22-RF034-CS
	3.7	5	22F-RF021-BS	22F-RF021-BL	22-RF021-BS	22-RF021-BL	22-RF021-BS >	22-RF021-BL	22-RF034-CS
	5.5	7.5	22F-RF039-CS	22F-RF039-CL	-	-	22-RF034-CS	22-RF034-CL	22-RF034-CS
	7.5	10	22F-RF039-CS	22F-RF039-CL	-	-	22-RF034-CS	22-RF034-CL	22-RF034-CS
	11	15	-	-	-	-	-	-	22-RFD070
	15	20	-	-	-	-	-	-	22-RFD100
	18.5	25	-	-	-	-	-	-	22-RFD100
	22	30	-	-	-	-	-	-	22-RFD150
	30	40	-	-	-	-	-	-	22-RFD150
37	50	-	-	-	-	-	-	22-RFD180	
380...480V, 50/60 Hz, Three-Phase	0.4	0.5	22F-RF6P0-AS	22F-RF6P0-AL	22-RF5P7-AS	22-RF5P7-AL	22-RF012-BS	22-RF012-BL	-
	0.75	1	22F-RF6P0-AS	22F-RF6P0-AL	22-RF5P7-AS	22-RF5P7-AL	22-RF012-BS	22-RF012-BL	-
	1.5	2	22F-RF6P0-AS	22F-RF6P0-AL	22-RF5P7-AS	22-RF5P7-AL	22-RF012-BS	22-RF012-BL	-
	2.2	3	22F-RF012-BS	22F-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF018-CS
	3.7	5	22F-RF012-BS	22F-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF012-BS	22-RF012-BL	22-RF018-CS
	5.5	7.5	22F-RF026-CS	22F-RF026-CL	-	-	22-RF018-CS	22-RF018-CL	22-RF018-CS
	7.5	10	22F-RF026-CS	22F-RF026-CL	-	-	22-RF018-CS	22-RF018-CL	22-RF018-CS
	11	15	22F-RF026-CS	22F-RF026-CL	-	-	22-RF026-CS	22-RF026-CL	22-RF026-CS
	15	20	-	-	-	-	-	-	22-RFD036
	18.5	25	-	-	-	-	-	-	22-RFD050
	22	30	-	-	-	-	-	-	22-RFD050
	30	40	-	-	-	-	-	-	22-RFD070
	37	50	-	-	-	-	-	-	22-RFD100
	45	60	-	-	-	-	-	-	22-RFD100
	55	75	-	-	-	-	-	-	22-RFD150
	75	100	-	-	-	-	-	-	22-RFD180
	90	125	-	-	-	-	-	-	22-RFD208
	110	150	-	-	-	-	-	-	22-RFD208
	132	200	-	-	-	-	-	-	22-RFD323
160	250	-	-	-	-	-	-	22-RFD480	
200	300	-	-	-	-	-	-	22-RFD480	
250	350	-	-	-	-	-	-	22-RFD480	

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### EMC Filters (continued)

Drive Ratings			PowerFlex 4M		PowerFlex 4		PowerFlex 40/40P		PowerFlex 400
Input Voltage	kW	Hp	S Type Filter	L Type Filter	S Type Filter	L Type Filter	S Type Filter	L Type Filter	IP00 (NEMA/UL Type Open)
			Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *	Cat. No. ‡	Cat. No. *
500...600V, 50/60 Hz, Three-Phase	0.75	1	-	-	-	-	-	22-RF8P0-BL	-
	1.5	2	-	-	-	-	-	22-RF8P0-BL	-
	2.2	3	-	-	-	-	-	22-RF8P0-BL	-
	4.0	5	-	-	-	-	-	22-RF8P0-BL	-
	5.5	7.5	-	-	-	-	-	22-RF015-CL	-
	7.5	10	-	-	-	-	-	22-RF015-CL	-
	11	15	-	-	-	-	-	22-RF024-CL	-

\* This filter is suitable for use with a cable length of up to 10 meters for Class A and 1 meter for Class B environments.

⊗ Drives are available in these ratings with internal "S Type" filters.

‡ This filter is suitable for use with a cable length of up to 100 meters for Class A and 5 meters for Class B environments.

§ The piggyback mounting option cannot be used with Frame B PowerFlex 4 drives and Frame C EMC Line Filters.

♣ PowerFlex 40 Only.

➤ Filter must be Series B or later.

### DC Series Bus Inductors

Voltage	Drive Rating			Inductance	Cat. No.	Used with PowerFlex Drive				
	kW	Hp	Amps	mH		4M	4	40	40P	400
200...240V, 50/60 Hz, Three-Phase	2.2	3	12	1.00	1321-DC12-1					✓
	3.7	5	17.5	0.65	1321-DC18-1					✓
	5.5	7.5	32	0.85	1321-DC32-1			✓		✓
	7.5	10	40	0.75	1321-DC40-2			✓		✓
400...480V, 50/60 Hz, Three-Phase	2.2	3	6	2	1321-DC9-2					✓
	4.0	5	10.5	2.1	1321-DC12-2					✓
	5.5	7.5	18	3.75	1321-DC18-4			✓		✓
	7.5	10	25	1.28	1321-DC25-4			✓		✓
	11	15	32	2.68	1321-DC32-3			✓		✓
500...600V, 50/60 Hz, Three-Phase	15	20	30	2.5	1321-DC40-4					✓
	5.5	7.5	12	2.1	1321-DC12-2_600			✓		
	7.5	10	18	3.75	1321-DC18-4			✓		
	11	15	25	1.28	1321-DC25-4			✓		