POWR-BLOKS®

GUIDE TO DISTRIBUTION BLOCKS WITH HIGH SHORT-CIRCUIT CURRENT RATINGS (SCCR)

Littelfuse®

Expertise Applied | Answers Delivered

0LD/LFD Series

POWR-BLOK DESCRIPTION							HIGH SCCR REQUIREMENTS						
LITTELFUSE ORDERING NUMBER	POLES	AMPS	RATED WIRE RANGE (OPENINGS) KCMIL/AWG		CONDUCTOR SIZE REQUIRED (KCMIL/AWG)[2]		OVERCURRENT PROTECTION FUSE REQUIRED CLASS / LITTELFUSE SERIES / MAX AMP RATING[3]						SCCR, IN RMS SYM AMPS[1]
							J	T	RK1	RK5	G	CC	
			LINE	LOAD	LINE	LOAD	JTD_ID	JLLN OR JLLS	LLNRK OR LLSRK_ID	FLNR_ID OR FLSR_ID	SLC	CCMR, KLDR OR KLKR	
0LD14401Z	1	115	(1) 2 - 14	(4) 10 - 18	2 - 6 Cu	10 Cu	200	200	200	60	60	30	100,000
0LD14402Z	2				2 - 10 Cu	10 - 14 Cu	150	150	100	30	30	30	100,000
0LD14403Z	3				2 - 12	10 - 14	60	60	30	-	50	30	100,000
0LD14404Z	4												
LFD14003Z	3	115	(1) 2 - 14	(4) 10 - 18	2 - 10	10	200	200	200	60	60 (100 kA)	30	200,000
					2 - 14	10 - 14	30	30	30	30	60 (100 kA)		
0LD25701ZXDIN	1	175	(1) 2/0 - 14	(4) 4 - 14	2/0 - 6 Cu	4 - 10 Cu	200	200	200	100	60	30	100,000
0LD25702ZXDIN	2				2/0 - 10 Cu	4 - 14 Cu	150	150	100	30	60	30	100,000
0LD25703ZXDIN	3												
0LD25801ZXDIN	1	175	(1) 2/0 - 14	(6) 4 - 14	2/0 - 6 Cu	4 - 10 Cu	200	200	200	100	60	30	100,000
0LD25802ZXDIN	2				2/0 - 10 Cu	4 - 14 Cu	150	150	100	30	60	30	100,000
0LD25803ZXDIN	3												
LFD04013Z	3	175	(1) 2/0 - 14	(6) 4 - 14	2/0 -10 str.	4 - 10 str.	200	200	200	100	-	30	200,000
					2/0 - 14 str.	4 - 14 str.	30	30	30	30	60 (100 kA)		
					10 - 14 sol.	10 - 14 sol.							
LFD25702Z	2	175	(1) 2/0 - 14	(4) 4 - 14	2/0 - 10	4 - 10	200	200	200	100	-	30	200,000
					2/0 - 14	4 - 14	30	30	30	30	60 (100 kA)		
LFD25703Z	3	175	(1) 2/0 - 14	(4) 4 - 14	2/0 - 10	4 - 10	200	200	200	100	-	30	200,000
					2/0 - 14	4 - 14	30	30	30	30	60 (100 kA)		
0LD45543ZX	3	310	(1) 350 - 6	(2) 2/0 - 14	350 - 6	2/0 - 6	400	400	200	100	60	30	100,000
0LD45531ZX	1	335	(1) 400 - 6	(6) 2 - 14	400 - 3/0	2 - 6	600	600	600	200	60	30	100,000
0LD45533ZX	3				400 - 6	2 - 10	300	300	200	100	60	30	100,000
0LD45551ZX	1	350	(2) 2/0 - 14	(6) 4 - 14	2/0 - 2	4 - 8	400	400	400	100	60	30	100,000
0LD45553ZX	3				2/0 - 6	4 - 10	200	200	200	100	60	30	100,000
LFD35553Z	3	350	(2) 2/0 - 14	(6) 4 - 14	2/0 - 4	2 - 4	400	400	400	200	60 (100 kA)	30	200,000
					2/0 - 14	4 - 14	30	30	30	30			
0LD55791Z	1	380	(1) 500 - 4	(6) 2/0 - 14	500 - 3/0	2/0 - 6	400	400	400	100	60	30	100,000
0LD55792Z	2				2/0 - 4	8 - 14	200	200	200				
LFD55793Z	3	380	(1) 500 - 4	(6) 2/0 - 14	500 - 4	2/0 - 4	400	400	400	200	60 (100 kA)	30	200,000
						2/0 - 14	30	30	30	30			
LFD35523Z	3	380	(1) 500 - 6	(4) 2 - 14	500 - 4	2	400	400	400	200	60 (100KA)	60	200,000
					500 - 6	2 - 14	30	30	30	30		30	
LFD35533Z	3	380	(1) 500 - 6	(6) 2 - 14	500 - 4	2	400	400	400	200	60 (100 kA)	30	200,000
					500 - 6	2 - 14	30	30	30	30			
LFD55523Z	3	380	(1) 500 - 4	(12) 2 - 14	500 - 4	2 - 4	600	600	400	200	60	30	100,000
						2 - 14	30	30	30	30	60 (100 kA)		200,000
0LD45851ZX	1	420	(1) 600 - 2	(8) 2 - 14	600 - 3/0	2 - 6	450	450	400	200	60	30	100,000
0LD45853ZX	3				600 - 2	2 - 10	250	250	200	100	60	30	100,000
					600 - 2	2 - 14	125	125	100	30	60	30	100,000
0LD45881ZX	1	420	(1) 600 - 2	(3) 1/0 - 4 (L)	600 - 3/0	1/0 - 8 (L)	500	500	400	200	60	30	100,000
						2 - 8 (S)							
0LD45883ZX	3			(6) 2 - 14 (S)	600 - 2	1/0 - 10 (L)	300	300	200	100	60	30	100,000
						2 - 10 (S)							
0LD45951ZX	1	420	(1) 600 - 2	(12) 4 - 14	600 - 3/0	4 - 6	450	450	400	200	60	30	100,000
0LD45953ZX	3				600 - 2	4 - 10	250	250	200	100			
					600 - 2	4 - 14	125	125	100	30			
0LD45961ZX	1	510	(2) 250 - 6	(12) 4 -14	250 - 4	4 - 10	400	400	400	100	60	30	100,000
0LD45963ZX	3				250 - 6	4 - 14	150	150	100	30			
0LD55861Z	1	760	(2) 500 - 4	(8) 2/0 - 14	500 - 250 Cu	2/0 - 4 Cu	600	600	400	200	60	30	100,000
0LD55862Z	2	760	(2) 500 - 4	(8) 2/0 - 14	500 - 4 Cu	2/0 - 10 Cu	350	350	200	100	60	30	100,000
LFD55863Z	3	760	(2) 500 - 4	(8) 2/0 - 14	(2) 500 - 4	2/0 - 4	600	600	400	200	60	30	100,000
					2 - 4	2 - 4	30	30	30	30	60 (100 kA)		200,000

*(L) = Large Opening; *(S) = Small Opening

0LD/LFD Series Continued

POWR-BLOK DESCRIPTION							HIGH SCCR REQUIREMENTS						
LITTELFUSE ORDERING NUMBER	POLES	AMPS	RATED WIRE RANGE (OPENINGS) KCMIL/AWG		CONDUCTOR SIZE REQUIRED (KCMIL/AWG)[2]		OVERCURRENT PROTECTION FUSE REQUIRED CLASS / LITTELFUSE SERIES / MAX AMP RATING[3]						SCCR, IN RMS SYM AMPS[1]
			LINE	LOAD	LINE	LOAD	J	T	RK1	RK5	G	CC	
							JTD_ID	JLLN OR JLLS	LLNRK OR LLSRK_ID	FLNR_ID OR FLSR_ID	SLC	CCMR, KLDR OR KLKR	
0LD55921Z	1	760	(2) 500 - 4	(12) 4 - 14	500 - 250 Cu	4 - 8 Cu	400	400	200	100	60	30	100,000
0LD55922Z	2				500 - 4 Cu	4 - 10 Cu	350	350	200	100	60	30	100,000
LFD55923Z	3				(2) 500 - 4	4	600	600	400	200	60	30	100,000
					2 - 4	4 - 14	30	30	30	30	60 (100 kA)	30	200,000
0LD57071Z	1	950	(2) 750 - 1/0	(4) 3/0 - 6 (L) (12) 2 - 14 (S)	750 - 1/0	3/0 - 2 (L)	600	700	600	200	60	30	100,000
0LD57073Z	3					3/0 - 6 (L)	300	300	200	100			
						2 - 6 (S)	300	300	200	100			

*(L) = Large Opening; *(S) = Small Opening

0LS/LFS Series

POWR-BLOK DESCRIPTION							HIGH SCCR REQUIREMENTS						
LITTELFUSE ORDERING NUMBER	POLES	AMPS	RATED WIRE RANGE (OPENINGS) KCMIL/AWG		CONDUCTOR SIZE REQUIRED (KCMIL/AWG)[2]		OVERCURRENT PROTECTION FUSE REQUIRED CLASS/LITTELFUSE SERIES/MAX AMP RATING[3]						SCCR, IN RMS SYM AMPS[1]
			LINE	LOAD	LINE	LOAD	J	T	RK1	RK5	G	CC	
							JTD_ID	JLLN OR JLLS	LLNRK OR LLSRK_ID	FLNR_ID OR FLSR_ID	SLC	CCMR, KLDR OR KLKR	
LFS13003Z	3	115	(1) 2 - 14	(1) 2 - 14	2 - 10	2 - 10	200	200	200	100	60 (100 kA)	30	200,000
0LS13301Z	1	115	(1) 2 - 14	(1) 2 - 14	2 - 6 Cu	2 - 6 Cu	200	200	200	100	60	30	100,000
0LS13302Z	2												
0LS13303Z	3				2 - 10 Cu	2 - 10 Cu	100	100	100	30	60	30	100,000
0LS13304Z	4												
0LS25721ZXDIN	1	175	(1) 2/0 - 14	(1) 2/0 - 14	2/0 - 6	2/0 - 6	200	200	200	100	60	30	100,000
0LS25722ZXDIN	2												
0LS25723ZXDIN	3												
LFS25723Z	3	175	(1) 2/0 - 14	(1) 2/0 - 14	2/0 - 6	2/0 - 6	200	200	200	100	60 (100 kA)	30	200,000
0LS45821ZX	1	310	(1) 350 - 6	(1) 350 - 6	350 - 6	350 - 6	500	500	400	200	60	30	100,000
0LS45823ZX	3												
0LS43053ZX	3	350	(2) 2/0 - 14	(2) 2/0 - 14	2/0 - 6	2/0 - 8	400	400	200	100	60	30	100,000
0LS43601ZX	1	420	(1) 600 - 2	(1) 600 - 2	600 - 2	600 - 2	400	400	200	100	60	30	100,000
0LS43603ZX	3												
0LS43503ZX	3	620	(2) 350 - 6	(2) 350 - 6	350 - 4	350 - 4	500	500	400	200	60	30	100,000
0LS51291Z	1	620	(2) 350 - 4	(2) 350 - 4	350 - 4 Cu	350 - 4 Cu	600	600	-	-	-	-	50,000
0LS51292Z	2						450	450	400	200	60	30	100,000
0LS51293Z	3												
0LS53011Z	1	760	(2) 500 - 4	(2) 500 - 4	500 - 4 Cu	500 - 4 Cu	500	500	400	200	60	30	100,000
0LS53012Z	2												
0LS53013Z	3												

GDB Series

POWR-BLOK DESCRIPTION							HIGH SCCR REQUIREMENTS						
LITTELFUSE ORDERING NUMBER	POLES	AMPS	RATED WIRE RANGE (OPENINGS) KCMIL/AWG		CONDUCTOR SIZE REQUIRED (KCMIL/AWG)[2]		OVERCURRENT PROTECTION FUSE REQUIRED CLASS/LITTELFUSE SERIES/MAX AMP RATING[3]						SCCR, IN RMS SYM AMPS[1]
							J	T	RK1	RK5	G	CC	
			LINE	LOAD	LINE	LOAD	JTD_ID	JLLN OR JLLS	LLNRK OR LLSRK_ID	FLNR_ID OR FLSR_ID	SLC	CCMR, KLDR OR KLKR	
GDB60801Z	1	80	(1) 8 - 4	(6) 8 - 4	8 - 4	14 - 10 sol/str	80	-	-	-	-	-	100,000
GDB61151Z	1	115	(1) 8 - 2 (L)	(6) 14 - 4	8 - 2	14 - 4 sol/str	125	-	-	-	-	-	100,000
			(1) 10 - 6 (S)	(6) 14 - 4		14 - 4 sol/str		-	-	-	-	-	
GDB61153Z	3	115	(1) 8 - 2	(6) 14 - 4	8 - 2	14 - 4 sol/str	125	-	-	-	-	-	100,000
GDB61601Z	1	160	(1) 8 - 2/0	(6) 14 - 4	8 - 2/0	14 - 4 sol/str	175	-	-	-	-	-	100,000
GDB61753Z	3	175	(1) 8 - 2/0	(6) 14 - 4	8 - 2/0	14 - 4 sol/str	175	-	-	-	-		100,000
GDB63101Z	1	310	(1) 3/0 - 350	(2) 2 - 14	3/0 - 350	14 - 6 (Top)	350	-	-	-	-	-	100,000
				(5) 6 - 14		14 - 8 (Mid)		-	-	-	-	-	
				(4) 8 - 14		14 - 2 (Bot)		-	-	-	-	-	

*(L) = Large Opening; *(S) = Small Opening

NOTE: The connectors were tested and approved at 90 °C per UL 486 A/B - ampacity reflect 90 °C column in Table 310-16 of NEC.
(1) Short-circuit current ratings may be marked on the block or instructions provided with the terminal block
(2) Size range of conductors necessary to maintain noted SCCR
(3) Maximum size of line side overcurrent protection to provide noted SCCR

If a manufacturer has not provided the product's SCCR, then refer to Table SB4.1 in UL 508A Supplement SB, which provides an assumed maximum SCCR for the device.