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BUSSMANN SERIES

Low-Peak[™] LPJ Class J 600Vac/300Vdc, 1-60A, dual element, time-delay fuses







Catalog symbol:

- LPJ-(amp)SP (non-indicating)
- LPJ-(amp)SPI (indicating)

Description:

Bussmann[®] series Ultimate protection LPJ Class J dual element, current-limiting, time-delay fuses available with optional open fuse indication. Time-delay – 10 seconds (minimum) at 500% of rated current.

Specifications:

Ratings

- Volts
 - 600Vac
 - 300Vdc*
- Amps 1-60A
- IR
 - 300kA Vac RMS Sym.
 - 100kA Vdc
- * Indicating versions not Vdc rated.

Agency information

- cULus Listed file No. JDDZ.E4273
 - UL 248-8 Class J Fuses
 - CSA C22.2 No. 248.8 Class J Fuses
- CE
- RoHS compliant



Catalog numbers (amps) – non-indicating fuses						
LPJ-1SP	LPJ-3SP	LPJ-7SP*	LPJ-25SP*			
LPJ-1-1/4SP	LPJ-3-2/10SP	LPJ-8SP*	LPJ-30SP*			
LPJ-1-6/10SP	LPJ-3-1/2SP	LPJ-9SP*	LPJ-35SP*			
LPJ-1-8/10SP	LPJ-4SP	LPJ-10SP*	LPJ-40SP*			
LPJ-2SP	LPJ-4-1/2SP	LPJ-12SP*	LPJ-45SP*			
LPJ-2-1/4SP	LPJ-5SP	LPJ-15SP*	LPJ-50SP*			
LPJ-2-1/2SP	LPJ-5-6/10SP	LPJ-17-1/2SP*	LPJ-60SP*			
LPJ-2-8/10SP	LPJ-6SP*	LPJ-20SP*				

* Open fuse indication available by inserting the suffix "I," e.g., LPJ-15SPI. Requires 75Vac minimum voltage. Indicating fuses are not Vdc rated.

Carton quantity:

Amp rating	Carton qty.
1–60	10

Dimensions - in



Features:

- Industry's only UL Listed and CSA Certified fuse with a 300kA interrupting rating that allows for simple, worry-free installation in virtually any application.
- Fast short-circuit protection and dual-element, time-delay performance provide ultimate protection.
- Reduces existing fuse inventory by up to 33% when upgrading to Low-Peak fuses.
- Consistent 2:1 ampacity ratios for all Low-Peak fuses make selective coordination easy.
- Long time-delay minimizes needless fuse openings due to temporary overloads and transient surges.
- Current-limitation protects downstream components against damaging thermal and magnetic effects of short-circuit currents.
- Dual-element fuses have lower resistance than ordinary fuses so they run cooler. They can often be sized for back-up protection against motor burnout from overload or single-phasing if other overload protective devices fail.
- Proper sizing can provide "no damage" Type 2 coordinated protection for NEMA[®] and IEC[®] motor controllers.
- Space-saving package for equipment downsizing.

Recommended fuse blocks and holders:

Fuse amps	1-Pole	2-Pole	3-Pole				
Modular open blocks with optional covers							
0-30	JM60030-1_	JM60030-2_	JM60030-3_				
35-60	JM60060-1_	JM60060-2_	JM60060-3_				
"Pyramid" blocks							
0-30	—	—	JP60030-3_				
CH holders							
0-30	CH30J1_	CH30J2_	CH30J3_				
35-60	CH60J1_	CH60J2_	CH60J3_				
Safety J [™] holders							
0-30	JT60030_	_	_				
35-60	JT60060_	_					

For additional information on the Class J fuse blocks and holders, see data sheets no. 10289 (modular open blocks), no.1108 (pyramid blocks), no. 2144 (CH) and no. 1152 (Safety J).

Fuse reducers for Class J fuses:

Equipment fuse clips	Desired fuse (case) size	Catalog numbers (pairs)
60A	30A	J-63
1004	30A	J-13
IUUA	60A	J-16
200A	60A	J-26†

† Not for bolt-in applications.

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Time-current curves - average melt



Current-limiting effects:

Current-limitation curves:



Prospective	Let-through current (apparent RMS symmetrical vs. fuse rating)			
S.C.C.	15A	30A	60A	
1000	1000	1000	1000	
3000	1000	1000	1000	
5000	1000	1000	1000	
10,000	1000	1000	2000	
15,000	1000	1000	2000	
20,000	1000	1000	2000	
25,000	1000	1000	2000	
30,000	1000	1000	2000	
35,000	1000	1000	2000	
40,000	1000	2000	3000	
50,000	1000	2000	3000	
60,000	1000	2000	3000	
80,000	1000	2000	3000	
100,000	1000	2000	4000	
150,000	1000	2000	4000	
200,000	2000	3000	4000	
250,000	2000	3000	5000	
300,000	2000	3000	5000	

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