



**Underwriters  
Laboratories Inc.®**

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LITTELFUSE INC  
MR. BILL TRAVIS, STANDARDS ENGINEER  
800 E NORTHWEST HWY  
DES PLAINES IL 60016

**RE: Project Number(s) - 05NK03558**

Your most recent Certification is shown below. Please review the text and contact the Customer Service Professional who assisted with your project if revisions are required.

To view your company's current Listing Information or for ordering Listing Information in the 3 x 5-inch card format, please refer to [www.ul.com](http://www.ul.com).

**JDYX2**  
Fuses, Supplemental - Component

December 13, 2005

**LITTELFUSE INC**  
800 E NORTHWEST HWY, DES PLAINES IL 60016

**E10480**

**With pigtail leads**

Micro, Cat. Nos. 262\*, 268\*, 272\*, 273\*, 278\*, 279\* followed by three digit decimal suffix.002 to .999 incl. or suffix 01.5, 0.002-5 amps, 125 v, ac or dc.

Cat. Nos. 255\*, 256\*, 275\*, 276\* followed by three digit decimal suffix.062 to 010 incl., rated 0.0625-10 amps 125 v, ac or dc; Cat. No. 250041, rated 10 amp, 125 v, ac or dc; Cat. No. 250034, 5 amp, rated 125 v, ac or dc; Cat. No. 263\* followed by .062 to 005 incl., rated 0.062-5 amps, 250 v, ac; Cat. No. 250038\*, -039, 7-10 amps, rated 125 v, ac or dc.

Cat. Nos. 255\*, 256\*, 265\*, 266\*, 275\*, 276\*, 492\*, followed by three digit decimal suffix 012 to 015 incl., rated 12-15 amps, 32 v, ac or dc.

Cat. No. 270\* followed by suffix Nos. 160 to 175 incl., rated 0.062-10 amps 125 v, dc.

Cat. Nos. 473\*, 474\* rated 0-7.0 amps 125 v, ac or dc.

Cat. No. 471\* rated 0.5-5 amps, 125 v, ac or dc.

Cat. Nos. 251\*, 252\*, 255\*, 256\*, 491\*, 492\* followed by .062 to 010, rated 0.062 to 10A, 125Vac or dc; Cat. No. 251\*, 252\*, 255\*, 256\*, 491\*, 492\*, followed by 012-015, rated 12-15A, 32Vac or dc; Cat. Nos. 251\*, 491\*, 492, followed by .062, rated 0.062A, 250Vac.

Cat. No. 250041, rated 10 amp, 125 v, ac or dc; Cat. No. 250034, 5 amp, rated 125 v, ac or dc; Cat. No. 263\* followed by 062 to 005 incl., rated 0.062-5 amps, 250 v, ac; Cat. No. 250038\*, -039, 7-10 amps, rated 125 v, ac or dc.

677 Series, rated 250mA-6.3A, 250 Vac.

Cat. Nos. 265\*, 266\*, followed by 3-digit decimal suffix 0.062 to 010 incl., 125V, ac or dc.

Cat. No. 242xxxA, followed by .050-.250 250 V ac or dc.

Cat. No. 445070, rated 2 A, 250 V ac.

Miniature, Cat. Nos. 313\*+, 315\*+, F02B, 313ID\*+, followed by 010 to 030 incl., rated 10-30 amps, 32 v, ac.

Series 221\*, followed by 0.50 to 010 incl., rated 0.50-10 amps, 250 v, ac.

676 Series, rated 0.05-6.3A, 250 Vac.

Cat. Nos. 270154, 270181, rated 0.350 amp, 600 v, dc.

Cat. No. 230\* followed by 004 to 007 incl., rated 4-7 amps, 125 v, ac/dc; Cat. No. WP90904 followed by 111 to 113 incl.; Cat. No. rated 5 amps, 250 v, ac, 125 v, dc; Cat. No. 220059+, rated 7A, 350 Vac.

Cat. No. 228\*, followed by 0.032 to 10 incl., rated 0.032-10 amps, 250 v, ac.

Cat. No. 324\*+, 5324\*, followed by 020; Cat. No. WP91768 followed by List 17., rated 300 v, ac, 125 v, dc; Cat. No. 324\*+, followed by 025 or 030; Cat. No. WP91768 followed by List 18 or 19, rated 250 v, ac, 125 v, dc.

Cat. No. 325\*+, followed by 012 to 030 incl.; Cat. No. WP91769 followed by List 35 to 39 incl., rated 12 to 20 amps, 250 v, ac, 60 vdc 25 to 30 amps, 125 v, ac 60 vdc.

Series 223\* followed by 0.2 to 005 incl., rated 0.2-5 amps, 250 v, ac.

Series 2206\* followed by .750-003, rated 0.75-3A, 125/300 v, ac.

Series 2205\* followed by .250-02.5, rated 0.25-2.5A, 125/250 v, ac.

Cat. Nos. 220007\*+, -012\*, -013, -019\*, -044\*, -060\*, -061\*, rated 3A/350 V ac.

Cat. No. 242, followed by .050-.250 rated 250V ac or dc.

**For PC board mount**

Micro, Cat. No. 202\* followed by three digit decimal suffix 0.063 to 005 incl., rated 0.063-5 amps, 250 v, ac; Cat. No. 203\* followed by three digit decimal suffix 0.250 to 005 incl., rated 0.25-5 amps, 250 v, ac.

An independent organization working for a safer world with integrity, precision and knowledge.

491993001



Cat. No. 448 followed by three digit suffix 001 to 008 incl., rated 1-8 amps, 125 V ac; and 125 V dc

**For surface mount**

**Micro**, Cat. No. 271\* followed by three digit decimal suffix.062 to 015 incl., rated 0.062-0.5 amps, 125 v, ac or dc, 0.75-4 amps, 60 v, ac or dc, 5-15 amps, 32 v, ac or dc.

Series 434\*, 467\* or 494\*, followed by .02 0 to 5 incl., rated .025-5 amps, 32 v, ac or dc; Cat. No. 4000004, rated 0.5A, 32 ac or dc; Cat. No. 4000005, rated 2A, 32 vac or dc; Cat. No. 4000007, rated 0.75A, 32 vac or dc. Cat. No. 4000008, rated 0.2A, 32 vac or dc; 4000009, rated 0.5A, 32 vac or dc; Cat. No. 4000010, rated 1A, 32 vac or dc; 4000011, rated 1.25A, 32vac or dc; Cat. No. 4000012, rated 1.4A, 32 vac or dc; Cat. No. 4000013, rated 2A, 32 vac or dc.

Series 435, rated 0.25-2A amps, 24V, ac or 32V dc.

Series 451\*, 453\*, 490 followed by .062 to 010 incl., rated.062-10 amps, 125 v, ac or dc maximum.

Series 451\*, 453\*, 490 followed by 012 to 015 incl., rated 12-15 amps, 65 v, ac or dc; Series 452\*, 454\* followed by.375 to 005 incl., rated 0.375, -5 amps, 125 v, ac or dc.

Series 451 followed by 002 to 005 incl., rated 2-5 amps, 75 Vdc.

Series 456\* rated 20-30 amps, 125 Vac & 65 Vac.

Series 461\* rated 0.500-2 amps, 600 Vac.

Series 429\*++ followed by 0.125 to 008 incl., rated 1/8-3/8 amp, 125 v, ac or dc; 1/2-2 amps, 63 v, ac or dc; 2-1/2-3 amps, 32 v, ac or dc; 4-8 amps, 24 v ac or dc. Series 430\*, rated 0.5-2 amps, 63 v ac/dc, 3 amps, 32 v, ac/dc; Series 431\* followed by 0.25 to 005 incl., rated 0.25-5 amp, 32 v, ac or dc.

Cat. No. 450002\*, rated.500 amps; Cat. No. 450007, rated 2 amp.; Cat. No. 450005, rated 3 amps.

Cat. Nos. 420001\*, rated 1A; Cat. No. 420002\*, rated 1.5A; Cat. No. 420003\*, rated 2A; Cat. No. 420004\*, rated 2.5A; Cat. No. 420005\*, rated 3A; Cat. No. 420006\*, rated 3.5A; Cat. No. 420007\*, rated 4A; Cat. No. 420008\*, rated 5A all rated 250 v, ac.

Cat. No. 459\*, rated 0.062-5 amps, 125 v, ac or dc; Cat. No. 460\*, 0.375-5 amps, 125 v, ac or dc.

Cat. No. 433\*, 466\* or 493\*, rated 0.125-0.375 amps, 125 v ac/dc, rated 0.5-2.0 amps, 63 v ac/dc, rated 2.5-3A, 32 v ac/dc; Cat. No. 466\*, rated 4-10 amps, 24 v ac/dc; Cat. No. 433\*, rated 4-7A, 24 v, ac/dc.

Series 468 rated 1A-2A 63v ac/dc, rated 3A, 32 v ac/dc.

**For use with fuse holders**

**Miniature**, Cat. No. 301\* followed by 002 to 010 incl., rated 2-10 amps, 32 v, ac.

Cat. No. 326\*+, followed by 012, 015, 020, rated 12-20 amps, 250 v, ac, 60 vdc followed by 025, 030, rated 25-30 amp, 125 v, ac, Cat. No. 60 vdc WP91769 followed by 135 to 139 incl., rated 12-20 amp, 250 v, ac, 25-30 amp, 125 v, ac.

Series 213\* followed by 0.2 to 6.3 incl., rated 0.2- 6.3 amps, 250 v, ac.

Cat. Nos. 216\*+, 226\*, 616 followed by 0.050 to 10 incl., 0.05-10 amp, 250 v, ac; Cat. Nos. 216, 616 followed by 1.25 - 6.3 amp., 50 vdc; Cat. Nos. 216, 226 and 616 followed by 1 to 1.25 incl., 300 V ac.

Series 218\*+, 618\*, followed by.032 to 15 incl., rated 0.032-15 amp, 250 v, ac.

Series 219xxxA, rated 0.125-6.3A, 250 Vac.

Series 217\*+, 617\*, 227\*, followed by.032 through 06.3, rated 0.032-6.3 amp, 250 v, ac, 2-6.3 amp, 60 V dc.

Cat. Nos. 322001\* to 322010\* incl., rated 1 - 10A, 125/250Vac, 65Vdc; Cat. No. WP92458 followed by List 1-11, rated 1 - 10A, 125/250Vac, 65Vdc; Cat. Nos. rated 12 - 30A, 65Vac, 65Vdc.

Cat. No. 220\*+, followed by 015; Cat. Nos. 220021, -022+, 4-7 amps, 125 v, ac.

Cat. No. 229\* followed by 004 to 007 incl., 4-7 amps, 125 v, ac; Cat. No. WP90904 followed by List 11 to 13 incl.

Series 215\*+, followed by 0.50-012 incl., 0.50-12 amps, 250 v, ac.

Cat. No. 314\*+, followed by 020; Cat. No. WP91768 followed by List 117, rated 300 Vac, 125 v, dc; Cat. No. 314\*, followed by 025 or 030; Cat. No. WP91768, followed by List 118 or 119, rated 250 Vac, 125 Vdc.

Cat. No. 220045+, rated 2.0 amps, 350 v, ac, 125 v, dc.

Cat. No. 23001.5 rated 600 V ac.

Cat. No. 65NM, 0.5-4 amps, 125/250 v ac.

Cat. No. 65TS, 16-25A, 250 v ac.

**Miscellaneous**, Cat. No. 511\* followed by 010, 015, 020, 025, 030, 035, 040, 050, 060, 10-60 amps, 32 v, ac.

Cat. No. 585015\* followed by 015, 15 amps, 1000 v, ac or dc; Cat. No. FLU 011, 1000 v, ac or dc, rated 15A.

Cat. No. 586001\* followed by 001, 1 amps, 1000 v, ac or dc; Cat. No. FLU 440, 1000 v, ac or dc, rated 1A.

Cat. No. THV 060T, 0.45-1.0A, 5 kv.

**Micro fuses**, Type 662 followed by -.040, -.050, -.063, -.080, -.100, -.125, -.160, -.200, -.250, -.315, -.400, -.500, -.630, -.800, -.001, -.1.25, -.01.6, -.002, -.02.5, -.3.15, -.004, -.005 followed by -HXLL, -HXSL or -ZRLL, rated 40mA-5A, 250 Vac, 50mA-5A, 125 Vac/dc.

Type 663 followed by -.040, -.050, -.063, -.080, -.100, -.125, -.160, -.200, -.250, -.315, -.400, -.500, -.500, -.630, -.800, 0.001, -.1.25, -.01.6, -.002, -.02.5, -.3.15, -.004, -.005 followed by -HXLL, -HXSL or -ZRLL, rated 40mA-5A, 250 Vac/125 Vdc.

Type 66306.3 followed by -HXLL, -HXSL or -ZRLL, rated 40mA-5A, 250Vac/125 Vdc.

Type 664 followed by -.800, -.001, -.1.25, -.01.6, -.002, -.02.5, -.3.15, -.004, -.005, -.06.3 followed by -HXLL, -HXSL or -ZRLL, rated 800mA-6.3A, 250Vac.

\*With or without one prefix character and with or without additional suffix characters that signify options that do not affect the electrical characteristics.

+ May be followed by P

+ May be followed by P

Marking: Company name or "LF" and catalog or type designation on carton.

**See General Information Preceding These Recognitions**

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.