



# CERTIFICATION RECORD

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The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

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File No: 029862\_0\_000  
Class No: 1422 01 FUSES Special Type

## SUBMITTOR

4501292 Littelfuse, Inc.  
800 E Northwest Hwy  
Des Plaines, IL 60016-3096  
USA

## FACTORIES

4545541 Littelfuse S.A. de C.V.  
Calle Nueva Y Poder Judicial  
Piedras Negras, Chihuahua  
Mexico

4545860 Suzhou Littelfuse OVS Ltd.  
6 Xin Hai St.  
China - Singapore Suzhou  
Industrial  
Suzhou, Jiangsu 215000  
China

4548889 Littelfuse Phils., Inc.  
Lima Technology Center  
Special Economic Zone  
Lipa City-Malvar  
Batangas,  
Philippines

4768470 Littelfuse  
2501 Libramiento Venustiano  
Carranza  
Col. Lomas de la Villa  
Piedras Negras, Coahuila 26090  
Mexico

October 16, 2009(September 29, 2009)

- "LITTELFUSE" non-renewable cartridge fuses, supplemental type, as follows:
- Size 1 by 1/4 in: Types 362 and 368 (Pigtail Series), 250V, 0.125-2A incl., 125V, 2.5-6A incl.
- Size 1-1/4 by 1/4 in or 0.275 by 1.275 in (Pigtail Series): Types 312 and 318 (Pigtail Series), 250V, .01 to 10A incl; short circuit rating - 10000A at 125V; 1A and less 35A at 250V; greater than 1A through 3.5A, 100A at 250V; greater than 3.5A through 10A, 200A at 250V; Types 313, 313ID, and 315 (Pigtail Series), 250V, .01-8A, incl; short circuit rating - 10000A at 125V; 1A and less 35A at 250V; greater than 1A through 3.5A, 100A at 250V; greater than 3.5A through 8A, 200A at 250V; Types 314 and 324 (Pigtail Series), 250V, .125-15A, incl; short circuit rating - 10000A at 125V ac/dc; 1A and less 35A at 250V; greater than 1A through 3.5A, 100A at 250V; greater than 3.5A through 10A, 200A at 250V; greater than 10A through 15A, 750A at 250V; Types 326, 325 (Pigtail Series), 250V, .25-20A; short circuit rating - 10000A at 125V; 3.2A and less, 100A at 250V; greater than 3.2A through 20A, 400A at 250V; 25-30A, IR125-400A; Type 311, 32V, 4-30A incl.; Type 312, 32V, 10-30A incl.; Type 307, 32V, 20A, Type 310306, 125V, 7A; short circuit rating - 10000A at 125V; Type 373, 375 (pigtail) 4-10A, 250V, 11-15A, 125V; short circuit rating - 10000A at 125V; 4A through 10A, 200A at 250V.
- Cat No 314020, 324020 and WP91768, 20A, 300V ac max, IR125V ac/DC-10kA, IR250V ac-1KA, IR300V ac - 200A.
- "Miniature" glass envelope fuse, 4mm by 15mm, 250V ac, Cat Series 220 (pigtail), Cat Nos 220002, 220003, 220004, 220006, 220011, 220029 (no pigtail) rated 0.35A; 220010 rated 0.55A; 220027 rated 1A; 220033 rated 1.5A.
- Supplemental fuses, Cat No 220007, 220019, 3A, 350V ac, IR125-10kA, IR250-100A, IR300-100A, IR350-100A, IR 142VDC-160A.
- "Miniature" glass envelope fuse, 4mm by 15mm, Cat Series 229, 230 (pigtail) with suffix 0.25 through 03.5 rated 0.25A through 3.5A, 250V ac; short circuit rating - 10000A at 125V; 1A and less, 35A at 250V; greater than 1A through 3.5A, 100A at 250V.
- Supplemental fuses, Cat Nos 220056 and 220057, 1.25A, 250V ac, IR125-10kA, IR250-100A.
- Supplemental fuses, Cat Series 229, 230 (pigtail) and 220015 (pigtail), 4A, 125V ac, IR125-10kA.
- "Pico" fuses: Catalogue Series 251, 252, 255, 256, 491, followed by Suffix 062 through 010, rated 125V ac or dc, 0.062A through 10A; short circuit rating - 300A at 125V dc,

50A at 125V ac.

- Pico fuses Cat No 250038, 7A, 125V ac/dc IR 125V dc, 300A, IR 125V ac, 50A.
- "Pico" fuses: Cat Nos 250039 and 250041, 10A, 125V ac/dc, IR 125V dc -300A, IR 125V ac-50A.
- "Pico" fuses: Catalogue Series 265, 266, 275, 276, followed by Suffix 062 through 010, rated 125V ac or dc, 0.062A through 10A; short circuit rating - 300A at 125V dc, 50A at 125V ac.
- "Pico" fuses: Cat Series 251, 252, 255, 256, 491, followed by suffix 012 through 0.15, rated 32V ac or dc, 12 through 15A, IR32-50A.
- "Pico" fuses: Cat Series 265, 266, 275, 276, followed by suffix 012 through 015, rated 32V ac or dc, 12 through 15A, IR32-50A.
- "Pico" fuses: Series 473 (axial position pigtail leads), 474 (radial position pigtail leads) followed by suffix 375 through 007, rated 125V ac or dc, 3/8 through 7A, IR 50A at 125V ac or dc.
- "Pico" fuses: Series 471 or 499 (axial position pigtail leads), 472 (radial position pigtail leads) rated 10A and less, 125V ac or dc, IR 50A at 125V ac or dc; 12 and 15A, 32V ac or dc, IR 300A at 125V dc and 50A at 125V ac.
- "Micro" fuses: Catalogue Series 262, 268, 272, 278, 273, 279 followed by Suffix 002 through 005, rated 1/500A through 5A; short circuit rating - 10000A at 125V ac.
- Miniature, glass cartridge, 0.25 by 1.64 in, Cat Series LMF, 0.3-10A, 300V ac; Cat Series LGR, 0.5-15A, 300V ac.

Note: Suffix "L" may be added to Cat Series LGR fuse when fuse is provided in the submittor's LHR fuseholder assembly.

- Size 1-3/8 by 13/32 in; Types BLS and 537, 600V, .5-5A incl.
- Size 1-1/2 by 13/32 in; Types KLK and 532, 600V, .3-30A incl; Types FLM and 533, 250V, .1-30A incl; Types BLN and 536, 250V, .5-30A incl; Types BLF and 535, 250V, .5-15A incl., 125V, 20-30A incl; Types FLQ and 538, 500V, 30A and less; Type KLKF, 600V ac and less, 15 and 20A; Type KLKD, 30A and less, 600V ac/dc and less.
- "Micro" fuses, Cat Series 202, 0.063-5A, 250V ac, IR250-50A; Cat Series 203, 0.25-5A, 250V ac, IR 250-50A.
- Supplemental fuses Series 224 (pigtail series) and 225, cartridge type 4.5mm by 15mm; 3.5A and less 250V; 3.6A to 10A, 125V; short circuit rating - 10000A at 125V, 1A and less 35A at 250V; 1.5A through 3.5A, 100A at 250V.
- Supplemental fuses Catalogue Series 235 and 236 (pigtail) cartridge type, 5mm by 20mm; 0.1-3A, 250V; 3.6-7A, 125V; short circuit rating - 10000A at 125V, 35A at 250V for 1A and less ratings, 100A at 250V for 1.1-3A ratings.
- Supplemental fuses, Catalogue Series 237, 1-10A, 125V ac and less, IR125-10kA non-renewable glass cartridge type, 5 by 20mm.
- Supplemental fuses, Catalogue Series 234, 10A and less, 250V ac and less.
- Supplemental fuses Catalogue Series 239 and 238 (pigtail) cartridge type, 5mm by 20mm; 3.15A and less 250V; 4-7A, 125V; short circuit rating - 10000A at 125V, 35A at

- 250V for 1A and less ratings, 100A at 250V for 1.1-3.15A ratings.
- "Nano" fuses, Cat Series 271, cartridge type; 0.5A and less, 125V ac and less, IR125-50A; 0.6A to 4A, 60V ac and less, IR60-50A; 4.1A to 15A, 32V ac and less, IR32-50A.
  - "Nano" fuses, Series 429, 0.125-0.375A, 125V ac/dc, IR125V ac/dc-50A, 1/2-2A, 63V ac/dc, IR63V ac/dc-50A, 2-1/2-3A, 32V ac/dc, IR32V ac/dc-50A, 4-8A, 24V ac/dc, IR 24V ac/dc-35A intended for surface mount installation on pcb.
  - "Nano" fuses, Series 431; 0.25-1.0A, 32V ac/dc, IR32V ac/dc-50A; 1.5-5A, 32V ac/dc, IR32V ac/dc-35A.
  - "Nano" fuses, Series 430; 0.5-1.5A, 63V ac/dc, IR63 Vac/dc-50A; 1.75-2A, 63V ac/dc, IR63V ac/dc-35A; 3A, 32V ac/dc, IR 32 ac/dc -35A.
  - "Nano" fuses, Series 451 and 453, 0.062-15A, 125V ac/dc; non-renewable, intended for surface mount installation on printed circuit boards.
  - "Nano" fuse, Cat No 450005, 3A, 125V ac/dc, IR 125V ac, -100A, IR 125V dc-300A.
  - "Nano" fuses, Series 452 and 454, 3/8-5A, 125V ac/dc, IR125V ac/dc-50A 7A, 72V ac/60V dc, IR 72V ac - 50A, IR 60V dc - 50A intended for surface mount installation on pcb.
  - "Nano" fuse, Cat No 450002, 1/2A, 125V ac/dc, IR 125V ac/dc-50A.
  - Micro fuses, Series 263, 0.070-5A, 250V ac, IR250-50A.
  - Pico SMD fuses, Cat Series 459 followed by suffix 125 through 005, rated 125V ac or dc, 0.125-5A.
  - Pico SMD fuses, Series 460 followed by suffix 375 through 005, rated 125V ac or dc, 3/8-5A; IR 125V ac or dc, 50A.
  - Series 257 blade type fuses, 3A to 30A, 32V dc max.
  - Series 586 or Cat No FLU 440 1A, 1000 V ac/dc; Series 585 or Cat No FLU011, 15A, 1000V ac/dc.
  - Supplemental Fuses, Cat No 220013, 5A, 300V ac, IR 300-100A, Cat No 220044, 1A, 350V ac, IR 350-100A.
  - Miniature Fuses, Series 325 and 326 followed by Suffixes 012, 015 and 020, rated 12-20A, 250V ac or by Suffixes 025 and 030 with or without one of two additional suffixes, rated 25-30A, 125V ac. Cat No WP91769, followed by List No 135 through 139, rated 25-30A, 125V ac, Cat No WP91769, followed by List No 35 through 39, rated 12-20A, 250V ac.
  - Supplemental Fuses, 2205 Series, 0.25-2.5A, 250V ac, IR125-10kA, IR250-35A.
  - Supplemental Fuses, 2206 Series, 0.75-3.0A; 250V ac, IR125V ac-10kA; IR300V ac-100A; IR 140V dc - 150A for 3A rating only.
  - Supplemental Fuses, 1/4 by 1-1/4 inch ceramic cartridge, Cat Nos 314020, 324020 and WP91768, 20A, 300V ac max. IR125V ac/dc-10kA, IR250V ac-1kA, IR300V ac-200A.
  - Supplemental Fuses, non-renewable, 5 by 20mm glass cartridge type Cat Series 233, 1.0-3.15A, 250V ac, IR 125-10kA, IR 250-100A, 4-6.3A, 125V ac, IR125-10kA; 8 - 10A, 125V ac, IR125-10kA.
  - "Nano" fuses, Series 436, 0.75-1.6A, 250V ac, IR250V ac-100A; 125V ac, IR125V ac-10kA; 600V ac, IR600V ac-40A.
  - Microfuses Series 493, 0.25-0.5A, 63V ac/dc, IR63V ac/dc-50A; rated 0.75-1.0A, 32V ac/

- dc, IR32V ac/dc-50A; rated 1.5-3.0A, 32V ac/dc, IR32V ac/dc-50A.
- Special purpose fuse, Series 401, 0.18-10A, 125V ac and 60V dc. Series 401, 0.88-5A, 160V dc-55A, IR125V ac-100A.
- Microfuses, Series 433, 466 rated 0.125-0.375A, 125V ac/dc, IR125V ac/dc-50A, rated 0.5-2A, 63V ac/dc, IR63V ac/dc-50A, rated 2-1/2-3A, 32V ac/dc, IR32V ac/dc-50, rated 4-7A, 24V ac/dc, IR 24V ac/dc-35A.
- Microfuses, Series 466, rated 6 to 10A, 24 Vac/dc, IR 24 Vac/dc-35A.; 4 and 5A, 32V ac/dc, JR32Vac/dc-50A.
- Microfuse, Cat No 435, 0.25-2A, 24V ac/dc, IR24V ac/dc-35A.
- Supplemental Fuse, Series 468, 0.5 - 1.5A, 63V ac/dc , IR63V ac/dc, 50A; 2A, 63V ac/dc, IR63V ac/dc - 35A, 32V ac/dc, IR32V ac/dc - 50A.
- Microfuses, Series 448, 0.062-8A, 125V ac/dc, IR 125V ac/dc-50A, IR 32V dc-300A; 10A, 125V ac/dc, IR 125V ac-35A, IR 125V dc-50A, IR 32V dc-300A; 12-15A, 65V ac/dc, IR 65V ac/dc-50A, IR 24V dc-300A.

Notes:

1. Types 313, 315 and 326 have been tested for a limited short circuit at 250V.
2. Fuses for supplementary overcurrent protection are Certified for use only in equipment where the suitability of the combination is determined by CSA International.
3. Catalogue Series 202, 203, 220, 224, 225, 229, 230, 235, 236, 238, 239, 312, 313, 314, 315, 318, 324, 325, 326, 362, 368, 451, 452, 453, 454, 473,251, 252, 255, 256, may have suffix letters added to the catalogue number to indicate special pigtail and/or identity colour code marking and/or heat shrink tubing. Prefix letter may be added to Cat No to denote packaging issues.
4. Catalogue Series 251, 252, 255, 256 may have colour code current rating as well as marked current rating.
5. Catalogue Series 202, 203 have a 3 digit suffix to denote current rating.

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