



SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

1 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV  | | | | | PHOENIX Valvetrab-SEC-T2 MOV  | | | | |
|--|--|---|-------------------------------|--------------------------------------|---|--|--|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | Unknown | | | | | |
| | No Cross | | | | | Unknown | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 175 V | 40 kA | 850 V | 240 V | 240 V | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | Unknown | | | | | |
| | No Cross | | | | | Unknown | | | | | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 350 V | 40 kA | 1500 V | 415 V | 457 V | |
| | No Cross | | | | | Unknown | | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | Unknown | | | | | |
| | 550 V | 50 kA | 2500 V | 697 V | 915 V | Unknown | | | | | |
| 601 V ac–1000 V ac | 750 V | 35 kA | 3400 V | 871 V | 1143 V | Unknown | | | | | |
| | No Cross | | | | | Unknown | | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | Unknown | | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | Unknown | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 315 A gG / 200 A gG | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 25 kA / 50 kA | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | Unknown | | | | | |
| | No Cross | | | | | Unknown | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 175 V | Unavailable | 20 kA | Unavailable | 1, 2, 3, 4 | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | Unknown | | | | | |
| | No Cross | | | | | 350 V | 1200 V | 20 kA | 50 kA | | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | Unknown | | | | | |
| | No Cross | | | | | Unknown | | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 440 V | Unknown | Unknown | Unknown | Unknown | |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | Unknown | | | | | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | Unknown | | | | | |
| | No Cross | | | | | Unknown | | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | Unknown | | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | Unknown | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Yes, Mechanical (Red/Green) | | | | | |
| Safety Reserve | No | | | | | No | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | No | | | | | No | | | | | |
| Leakage Free | No | | | | | No | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |



SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

2 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV  | | | | | CITEL DS40 MOV  | | | | |
|--|--|---|-------------------------------|--------------------------------------|---|--|--|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | No Cross | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 150 V | 40 kA | 900 V | 180 V | 230 V | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 255 V | 40 kA | 1250 V | 335 V | 440 V | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 280 V | 40 kA | 1300 V | 335 V | 440 V | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 320 V | 40 kA | 1500 V | 335 V | 440 V | |
| 601 V ac–1000 V ac | 550 V | 50 kA | 2500 V | 697 V | 915 V | 385 V | 40 kA | 1800 V | 335 V | 440 V | |
| | 750 V | 35 kA | 3400 V | 871 V | 1143 V | 440 V | 40 kA | 1800 V | 580 V | 770 V | |
| | | | | | | 530 V | 40 kA | 2500 V | 700 V | 920 V | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | 660 V | 40 kA | 3200 V | 870 V | 1150 V | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | 760 V | 40 kA | 3500 V | 1000 V | 1325 V | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 50 A gG | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 25 kA | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 150 V | | Non-UL | | | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 255 V | | Non-UL | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 280 V | | Non-UL | | | |
| 601 V ac–1000 V ac | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 320 V | | Non-UL | | | |
| | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | 385 V | | Non-UL | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | 440 V | 1500 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | 530 V | 1800 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| | | | | | | 660 V | Non-UL | Non-UL | Non-UL | Non-UL | |
| | | | | | | 760 V | 2500 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Yes, Mechanical (Red/Green) | | | | | |
| Safety Reserve | N | | | | | N | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | N | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |



SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

3 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV  | | | | | CITEL DS70R MOV  | | | | |
|--|--|---|-------------------------------|--------------------------------------|---|--|---|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 150 | 70 kA | 1000 V | 180 V | 230 V | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 255 | 70 kA | 1400 V | 335 V | 440 V | |
| | No Cross | | | | | 280 | 70 kA | 1500 V | 335 V | 440 V | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 320 | 70 kA | 1600 V | 335 V | 440 V | |
| | No Cross | | | | | No Cross | | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 440 | 70 kA | 1.8 kV | 580 V | 770V | |
| | 550 V | 50 kA | 2500 V | 697 V | 915 V | No Cross | | | | | |
| 601 V ac–1000 V ac | 750 V | 35 kA | 3400 V | 871 V | 1143 V | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | No Cross | | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | No Cross | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 30 kA | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 100 A gG | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 25 kA | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 150 | | | | Non-UL | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 255 | | | | Non-UL | |
| | No Cross | | | | | 280 | | | | Non-UL | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 320 | | | | Non-UL | |
| | No Cross | | | | | No Cross | | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 440 | 1500 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | No Cross | | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | No Cross | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Yes, Mechanical (Red/Green) | | | | | |
| Safety Reserve | N | | | | | N | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | Y | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |



SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

4 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV  | | | | | MERSEN Surge-Trap STP Series MOV  | | | | |
|--|--|---|-------------------------------|--------------------------------------|---|--|---|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 180 | 75 kA | Non-IEC | Non-IEC | Non-IEC | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275 | 75 kA | Non-IEC | Non-IEC | Non-IEC | |
| | No Cross | | | | | No Cross | | | | | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 320 | 75 kA | Non-IEC | Non-IEC | Non-IEC | |
| | No Cross | | | | | No Cross | | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 420 | 75 kA | Non-IEC | Non-IEC | Non-IEC | |
| | 550 V | 50 kA | 2500 V | 697 V | 915 V | 550 | 75 kA | Non-IEC | Non-IEC | Non-IEC | |
| 601 V ac–1000 V ac | 750 V | 35 kA | 3400 V | 871 V | 1143 V | 650 | 75 kA | Non-IEC | Non-IEC | Non-IEC | |
| | No Cross | | | | | No Cross | | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | No Cross | | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | No Cross | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA (up to 400 V ac), 10 kA (600 - 1000 V ac) | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | Non-IEC | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | Non-IEC | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 175 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 | 600 V | 20 kA | 200 kA | 1, 2 | |
| | No Cross | | | | | No Cross | | | | | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 320 | 1000 V | 20 kA | 200 kA | 1, 3, 4 | |
| | No Cross | | | | | No Cross | | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 420 | 1500 V | 10 kA | 200 kA | 1, 3, 4 | |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 550 | 1500 V | 10 kA | 200 kA | 3, 4 | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | No Cross | | | | | |
| | No Cross | | | | | No Cross | | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | No Cross | | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | No Cross | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Yes, Mechanical (Red/Green) | | | | | |
| Safety Reserve | N | | | | | N | | | | | |
| Thermal Protection | Y | | | | | Y | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | N | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | N | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |

SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

5 of 10

CHARACTERISTICS

**LITTELFUSE
SPD2
MOV**



**ABB
OVR T2 80-...
S P TS QS
MOV**



| | | |
|------------------------------------|-----------|---------|
| Lightning Impulse Current (10/350) | Not Rated | 6.25 kA |
|------------------------------------|-----------|---------|

IEC Characteristics

| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) |
|--|--|------------------|-------------------------------|--------------------------------------|---|--|------------------|-------------------------------|--------------------------------------|---|
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | Unknown | | | | |
| | No Cross | | | | | Unknown | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | Unknown | | | | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275V | 80 kA | 1400 V | 337 V | Unknown |
| | No Cross | | | | | Unknown | | | | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 350V | 80 kA | 1400 V | 1200 V | Unknown |
| | No Cross | | | | | Unknown | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 440V | 80 kA | 1800 V | 581 V | Unknown |
| | 550 V | 50 kA | 2500 V | 697 V | 915 V | Unknown | | | | |
| 601 V ac–1000 V ac | 750 V | 35 kA | 3400 V | 871 V | 1143 V | Unknown | | | | |
| | No Cross | | | | | Unknown | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | Unknown | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | Unknown | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 125 A gG / 50 A gG | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 100 kA | | | | |

UL Characteristics

| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles |
|---------------------|-------------------------------|---------------------------------|----------------------|--------|------------|-------------------------------|---------------------------------|----------------------|-------------|-------------|
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | Unknown | | | | |
| | No Cross | | | | | Unknown | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | Unknown | | | | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | No Cross | | | | | Unknown | | | | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 350 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | No Cross | | | | | Unknown | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 440 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | Unknown | | | | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | Unknown | | | | |
| | No Cross | | | | | Unknown | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | Unknown | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | Unknown | | | | |

Miscellaneous

| | | |
|--------------------|-----------------------------|------------------------------------|
| Fault Indication | Yes, Mechanical (Red/Green) | Yes, Mechanical (Red/Yellow/Green) |
| Safety Reserve | N | Optional |
| Thermal Protection | Y | Unknown |
| Follow Current | N | N |
| Leakage Free | N | Y |

Standards & Certifications

| | | |
|---------------------|---|---|
| IEC 61643-11 | Y | N |
| UL 1449 4th Edition | Y | Y |

SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

6 of 10

CHARACTERISTICS

**LITTELFUSE
SPD2
MOV**



**ABB
OVR T2 40-...
S P TS QS
MOV**



| | | |
|------------------------------------|-----------|------|
| Lightning Impulse Current (10/350) | Not Rated | 2 kA |
|------------------------------------|-----------|------|

IEC Characteristics

| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) |
|--|--|------------------|-------------------------------|--------------------------------------|---|--|------------------|-------------------------------|--------------------------------------|---|
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | Unknown | | | | |
| | No Cross | | | | | Unknown | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | Unknown | | | | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275 V | 40 kA | 1400 V | 337 V | Unknown |
| | No Cross | | | | | Unknown | | | | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 350 V | 40 kA | 1500 V | 462 V | Unknown |
| | No Cross | | | | | Unknown | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 440 V | 40 kA | 1800 V | 581 V | Unknown |
| | 550 V | 50 kA | 2500 V | 697 V | 915 V | Unknown | | | | |
| 601 V ac–1000 V ac | 750 V | 35 kA | 3400 V | 871 V | 1143 V | 600 V | 40 kA | 2300 V | 792 V | Unknown |
| | No Cross | | | | | Unknown | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | Unknown | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | Unknown | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 125 A gG / 50 A gG | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 100 kA | | | | |

UL Characteristics

| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles |
|---------------------|-------------------------------|---------------------------------|----------------------|--------|------------|-------------------------------|---------------------------------|----------------------|-------------|-------------|
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | Unknown | | | | |
| | No Cross | | | | | Unknown | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | Unknown | | | | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | No Cross | | | | | Unknown | | | | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 350 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | No Cross | | | | | Unknown | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 440 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | Unknown | | | | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | 600 V | Unavailable | Unavailable | Unavailable | Unavailable |
| | No Cross | | | | | Unknown | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | Unknown | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | Unknown | | | | |

Miscellaneous

| | | |
|--------------------|-----------------------------|------------------------------------|
| Fault Indication | Yes, Mechanical (Red/Green) | Yes, Mechanical (Red/Yellow/Green) |
| Safety Reserve | N | Optional |
| Thermal Protection | Y | Unknown |
| Follow Current | N | N |
| Leakage Free | N | Y |

Standards & Certifications

| | | |
|---------------------|---|---|
| IEC 61643-11 | Y | N |
| UL 1449 4th Edition | Y | Y |

SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

7 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV | | | | | BOURNS 1210 Series MOV | | | | |
|--|--|---------------------------------|-------------------------------|--------------------------------------|---|--|---------------------------------|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | No Cross | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 150 V | 100 kA | 900 V | 230 V | Unknown | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275 V | 100 kA | 1250 V | 440 V | Unknown | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | No Cross | | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 420 V | 100 kA | 1800 V | 770 V | Unknown | |
| 601 V ac–1000 V ac | 550 V | 50 kA | 2500 V | 697 V | 915 V | No Cross | | | | | |
| | 750 V | 35 kA | 3400 V | 871 V | 1143 V | No Cross | | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | 840 V | 100 kA | 4000 V | 1117 V | Unknown | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | No Cross | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | Unknown | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | Unknown | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 150 | 600 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 | 900 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 420 | 1200 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | No Cross | | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | 840 | 3000 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | No Cross | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Y | | | | | |
| Safety Reserve | N | | | | | Unknown | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | <1 mA | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |

SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

8 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV | | | | | BOURNS 1250 Series MOV | | | | |
|--|--|---------------------------------|-------------------------------|--------------------------------------|---|--|---------------------------------|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | No Cross | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 150 | 50 kA | 900 V | 230 V | Unknown | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275 | 50 kA | 1250 V | 440 V | Unknown | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | No Cross | | | | | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 420 | 50 kA | 1800 V | 440 V | Unknown | |
| 601 V ac–1000 V ac | 550 V | 50 kA | 2500 V | 697 V | 915 V | 550 | 50 kA | 2500 V | 770 V | Unknown | |
| 1000 V dc–1300 V dc | 750 V | 35 kA | 3400 V | 871 V | 1143 V | No Cross | | | | | |
| 1300 V dc–1500 V dc | | 40 kA | 3800 V | | | No Cross | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | Unknown | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | Unknown | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 150 | 700 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 | 1000 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 420 | 1200 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 601 V ac–1000 V ac | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 550 | 1800 V | 20 kA | 100 kA | 1, 2, 3, 4 | |
| 1000 V dc–1300 V dc | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | No Cross | | | | | |
| 1300 V dc–1500 V dc | | | | | | No Cross | | | | | |
| 1300 V dc–1500 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | No Cross | | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | No Cross | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Y | | | | | |
| Safety Reserve | N | | | | | Unknown | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | <1 mA | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |

SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

9 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV | | | | | DEHN DEHNguard M MOV | | | | |
|--|--|---------------------------------|-------------------------------|--------------------------------------|---|--|---------------------------------|-------------------------------|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | No Cross | | | | | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 150 V | 40 kA | 700 V | 175 V | 230 V | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275 V | 40 kA | 1500 V | 335 V | 440 V | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 385 V | 40 kA | 1750 V | 335 V | 440 V | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 440 V | 40 kA | 2000 V | 335 V | 440 V | |
| 601 V ac–1000 V ac | 550 V | 50 kA | 2500 V | 697 V | 915 V | No Cross | | | | | |
| | 750 V | 35 kA | 3400 V | 871 V | 1143 V | No Cross | | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | No Cross | | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | No Cross | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 20 kA (Under 200 V ac 15 kA) | | | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 125 A gG (Version Uc 600 V 100 A gG and 25 kA _{rms}) | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 50 kA | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 150 V | Unknown | 20 kA | Unknown | 2, 3, 4 | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 V | Unknown | 20 kA | Unknown | 2, 3, 4 | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 385 V | Unknown | 20 kA | Unknown | 2, 3, 4 | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 440 V | Unknown | 10 kA | Unknown | 2, 3, 4 | |
| 601 V ac–1000 V ac | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | No Cross | | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | No Cross | | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | No Cross | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Yes, Mechanical (Red/Green) | | | | | |
| Safety Reserve | N | | | | | N | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | N | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |



SPD2 Series

Type 2 Surge Protection Devices

COMPETITIVE ADVANTAGES

**INTERNAL
USE ONLY**

10 of 10

| CHARACTERISTICS | | LITTELFUSE SPD2 MOV  | | | | | DEHN DEHNguard S MOV  | | | | |
|--|--|---|-------------------------------|--------------------------------------|---|---|--|--|--------------------------------------|---|--|
| Lightning Impulse Current (10/350) | | Not Rated | | | | | Not Rated | | | | |
| IEC Characteristics | | | | | | | | | | | |
| Voltage Range | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | Maximum Continuous Operating Voltage (U _C) | I _{max} | Voltage Protection Level (Up) | TOV U _T Withstand (5 sec) | TOV U _T Safe Failure (120 min) | |
| > 100 V ac | 75 V | 50 kA | 800 V | 114 V | 229 V | 48 | 25 kA | 330 V | 70 V | 90 V | |
| | No Cross | | | | | 75 | 40 kA | 400 V | 90 V | 115 V | |
| 101–200 V ac | 150 V | 50 kA | 1250 V | 229 V | 229 V | 150 | 40 kA | 700 V | 175 V | 230 V | |
| 201–300 V ac | 300 V | 50 kA | 1500 V | 337 V | 442 V | 275 | 40 kA | 1500 V | 335 V | 440 V | |
| | No Cross | | | | | No Cross | | | | | |
| 301–400 V ac | 350 V | 50 kA | 1750 V | 403 V | 529 V | 320 | 40 kA | 1500 V | 335 V | 440 V | |
| | No Cross | | | | | 385 | 40 kA | 1750 V | 385 V | 440 V | |
| 401 V–600 V ac | 480 V | 50 kA | 2300 V | 581 V | 762 V | 440 | 40 kA | 2000 V | 580 V | 765 V | |
| | 550 V | 50 kA | 2500 V | 697 V | 915 V | No Cross | | | | | |
| 601 V ac–1000 V ac | 750 V | 35 kA | 3400 V | 871 V | 1143 V | 600 | 30 kA | 2500 V | 700 V | 915 V | |
| | No Cross | | | | | No Cross | | | | | |
| 1000 V dc–1300 V dc | | 40 kA | 3800 V | | | No Cross | | | | | |
| 1300 V dc–1500 V dc | | 30 kA | 5000 V | | | No Cross | | | | | |
| I _{nominal} (IEC, all voltages) | 20 kA | | | | | 7.5 kA (48 V ac and under) 15 kA (100 V ac–200 V ac and 500+ V ac) | | 10 kA (75 V ac–100 V ac), 20 kA (200 V ac–500 V ac) | | | |
| Back Up Fuse (IEC, all voltages) | 315 A gG / 200 A gG | | | | | 125 A gG (Version Uc 600 V 100 A gG and 25 kA _{rms}) | | | | | |
| I _{SCCR} (IEC, all voltages) | 25 kA / 50 kA (except PV, 11 kA) | | | | | 50 kA | | | | | |
| UL Characteristics | | | | | | | | | | | |
| Voltage Range | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | Max Continuous Voltage (MCOV) | Voltage Protection Rating (VPR) | I _{nominal} | SCCR | Poles | |
| > 100 V ac | 75 | 330 V | 20 kA | 100 kA | 1, 2, 3, 4 | 48 | Unknown | Unknown | Unknown | 1 | |
| | No Cross | | | | | 75 | Unknown | Unknown | Unknown | 1 | |
| 101–200 V ac | 150 | 600 V | 20 kA | 200 kA | 1, 2, 3, 4 | 150 | Unknown | Unknown | Unknown | 1 | |
| 201–300 V ac | 300 | 900 V | 20 kA | 150 kA | 1, 2, 3, 4 | 275 | Unknown | Unknown | Unknown | 1 | |
| | No Cross | | | | | No Cross | | | | | |
| 301–400 V ac | 350 | 1000 V | 20 kA | 200 kA | 1, 2, 3, 4 | 320 | Unknown | Unknown | Unknown | 1 | |
| | No Cross | | | | | 385 | Unknown | Unknown | Unknown | 1 | |
| 401–600 V ac | 480 | 1500 V | 20 kA | 200 kA | 1, 2, 3, 4 | 440 | Unknown | Unknown | Unknown | 1 | |
| | 550 | 2000 V | 20 kA | 200 kA | 1, 2, 3, 4 | No Cross | | | | | |
| 601 V ac–1000 V ac | 750 | 2500 V | 20 kA | 200 kA | 1, 2, 3 | 600 | Unknown | Unknown | Unknown | 1 | |
| | No Cross | | | | | No Cross | | | | | |
| 1000 V dc–1300 V dc | 1100 | 2500 V | 20 kA | 50 kA | 3 | No Cross | | | | | |
| 1300 V dc–1500 V dc | 1500 | 4000 V | 20 kA | 65 kA | 3 | No Cross | | | | | |
| Miscellaneous | | | | | | | | | | | |
| Fault Indication | Yes, Mechanical (Red/Green) | | | | | Yes, Mechanical (Red/Green) | | | | | |
| Safety Reserve | N | | | | | N | | | | | |
| Thermal Protection | Y | | | | | Unknown | | | | | |
| Follow Current | N | | | | | N | | | | | |
| Leakage Free | N | | | | | N | | | | | |
| Standards & Certifications | | | | | | | | | | | |
| IEC 61643-11 | Y | | | | | Y | | | | | |
| UL 1449 4th Edition | Y | | | | | Y | | | | | |