# BRYANT®

## Duplex Surge Receptacles

Bryant's compact, feature-rich duplex surge receptacles are designed to meet virtually any surge receptacle specification.

### *Features & Benefits*

- Provides point-of-use surge protection against transient voltages that can cause premature electronic equipment failure.
- Available for 15 Amp, 125 Volt and 20 Amp, 125 Volt in industrial grade (IG and non-IG) and hospital grade.
- Two 22mm MOVs provide 240 joules of surge protection for normal mode (L-N) and common modes (L-G, N-G.)
- 400 Volt clamping voltage.
- All-glass printed circuit board with a conformal coating and nylon shield to maximize moisture resistance and corrosion immunity.
- Visible LED signifies if device is operational or needs replacement.
- Audible alarm to alert occupants when device needs replacement. Includes muting screw.
- High-impact nylon face resists damage.
- External back-wire terminations with "U" shaped wire clamps designed to bundle stranded wire.
- Automatic grounding clip and tandem bypass contacts for the ultimate in contact pressure with lower operating temperatures.
- Distinctive "surge symbol" on the face to help the user quickly identify the receptacle as a surge suppression device.
- Available in blue, ivory, white, gray, almond (industrial grade only) and orange (IG only).
- Meets UL Standards 1449 and 498. CSA Certified.

### BRYANT® TRADE TIPS

A Joule is a measure of electrical energy, and not the most important rating when selecting surge protection devices. The energy a surge protection device can absorb is directly proportional to the "clamping voltage." Low clamping voltages are most desirable since the surge protection device is required to absorb and dissipate less energy given the same current level.

Simply selecting devices with high Joule ratings gives a false sense of protection because the rating is usually a result of higher clamping voltages which can permit damage to connected loads. When selecting surge protection devices, specify low clamping voltages to maximize protection.

# BRYANT® Circuit Watch

## Duplex Surge Receptacles

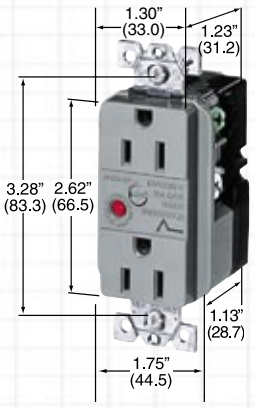
2-Pole 3-Wire Grounding, 15 Amp 125V; 20 Amp 125V

### *Specification Grade Duplex Receptacles*

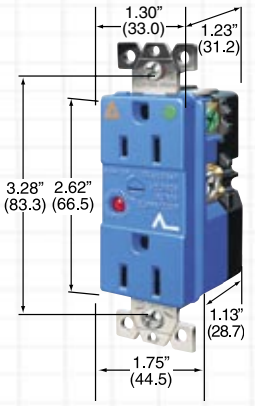
| Description | Color | NEMA 5-15 15A, 125V | NEMA 5-20 20A, 125V |
|---|---|---|---|
| Surge suppression receptacles with light and alarm, 240 joules/15000A per mode. | Blue | **SP52A** | **SP53A** |
| | Ivory | **SP52IA** | **SP53IA** |
| | White | **SP52WA** | **SP53WA** |
| | Gray | **SP52GYA** | **SP53GYA** |
| | Almond | **SP52ALA** | **SP53ALA** |
| Isolated ground, surge suppression receptacles with light and alarm, 240 joules/15000A per mode. | Blue | **SP52IGA** | **SP53IGA** |
| | Orange | **SP52IGOA** | **SP53IGOA** |
| | Ivory | **SP52IGIA** | **SP53IGIA** |
| | White | **SP52IGWA** | **SP53IGWA** |
| | Gray | **SP52IGGYA** | **SP53IGGYA** |
| | Almond | **SP52IGALA** | **SP53IGALA** |

### *Hospital Grade Duplex Receptacles*

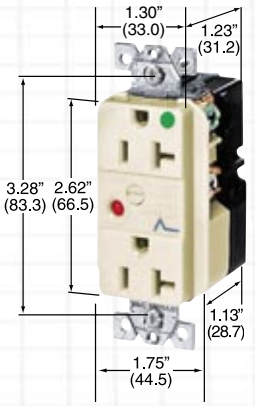
| Description | Color | NEMA 5-15 15A, 125V | NEMA 5-20 20A, 125V |
|---|---|---|---|
| Surge suppression receptacles with light and alarm. 240 joules/15000A per mode. | Blue | **SP82A** | **SP83A** |
| | Ivory | **SP82IA** | **SP83IA** |
| | White | **SP82WA** | **SP83WA** |
| | Red | **SP82RA** | **SP83RA** |
| | Gray | **SP82GYA** | **SP83GYA** |
| Isolated ground, surge suppression receptacles with light and alarm. 240 joules/15000A per mode. | Blue | **SP82IGA** | **SP83IGA** |
| | Orange | **SP82IGOA** | **SP83IGOA** |
| | Ivory | **SP82IGIA** | **SP83IGIA** |
| | White | **SP82IGWA** | **SP83IGWA** |
| | Red | **SP82IGRA** | **SP83IGRA** |
| | Gray | **SP82IGGYA** | **SP83IGGYA** |



**SP52GYA**



**SP82IGA**



**SP83IA**

### *Specifications*

| | |
|---|---|
| Frequency | 60Hz |
| Voltage | 120V AC + 10%–15% |
| Response Time | Approximately 5 ns |
| Protection Modes | Normal and Common Modes |
| Transient Suppression | Peak Energy: (10 X 100 ms) / Peak Current (8 X 20 ms) |
| Normal Mode (L-N) | 240 joules / 15000A |
| Common Mode (L-G), (N-G) | 240 joules / 15000A |
| UL Clamping Voltage | 400V Max. |
| UL Listed | UL 1449 |
| EMI/RFI Attenuation at 50 Ohms Normal Mode | -40 dB |
| Operating Temperature | 32° to 140° F (0° to 60°C) |
| Flammability | UL 94V-2 |



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