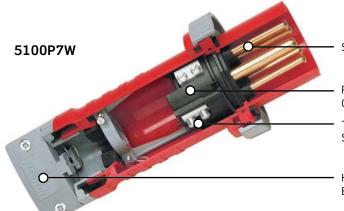
LEVITOR

NORTH AMERICAN RATED

North American Rated Devices

The Watertight Line. Superior Connection...Superior Protection



Solid Brass Pins

Reinforced Nylon Contact Carrier

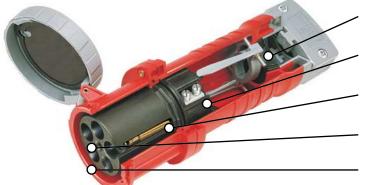
Terminal Screws, Stainless Steel (100A and 20-60A)

Heavy-Duty Valox® 357 Exterior Cord Clamp



Accepts liquid-tight conduit with adapter accessory (page G-15)





Watertight Chloroprene Onion Skin Grommet

Rear Terminals, Raised Lettering Identification

Calibrated, Self-Adjusting Contacts

Front Terminals, Raised Lettering Identification

Super-Durable Valox® 357 Housing and external cord clamp



Super Tough Housing

- Provides maximum protection from abuse and environment
- · Heavy-wall molding of Valox® 357 resists impact, heat, flame and chemicals
- Superior performance in low-to-high ambient temperature extremes (-40°C to 60°C)
- Excellent UV stability for superior outdoor performance (UL1682)
- V-0 flammability rating
- Fully insulated
- Color-coded by voltage for easy identification



External Cord Clamp

- Protects terminals from strain
- · Accommodates a wide variety of cord sizes
- Excellent impact strength
- · Excellent UV stability for superior outdoor performance (UL1682) • V-0 flammability rating
- · Accepts wire mesh strain relief



Internal Cord Clamp

- · Secondary method for eliminating strain on terminals and conductors
- True IEC 60309-1 & 60309-2 acceptance
- Constructed of sturdy thermoplastic for tough environments
- Removes easily for user convenience



Spring Loaded Cover, Cover Arm, & Locking Rings

- Rings lock plug to connector
- Spring loaded cover closes automatically
- "Performance grade" Stainless Steel cover spring for superior corrosion-resistance and long life
- Excellent UV stability for outdoor use
- V-0 flammability rating
- Interior arm design in 60 and 100 amp helps eliminate breakage



Gasket/Grommet

- · Prevents moisture, dust. and contaminants from entering housing or pin/contact carrier
- Solid chloroprene for positive seal and excellent chemical/ corrosion-resistance
- Onion skin design on grommet provides precise watertight fit, eliminating the need to choose from multiple grommets that may not fit the cable jacket precisely

Valox® is a registered trademark of SABIC



NORTH AMERICAN RATED

Features and Benefits

- Rugged housing, made of superior performance Valox® 357, provides maximum corrosion protection and makes the device more resistant to impact, abuse and temperature extremes. V-0 flame rated and superior UV stability
- Contact carrier resists arcing and internal heat build up; 60A and 100A contact/pin carriers are made of reinforced nylon for even greater strength and temperature resistance
- Zinc-coated steel terminal screws on 20A and 30A devices
- Brass terminal screws on 60A devices
- Dependable, clean brass construction for long life, reliable electrical contact, maximum conductivity, and corrosion resistance
- Watertight chloroprene onion skin grommet provides a precise, reliable seal at the cable entry point
- Ground, neutral and phase terminals are clearly identified by color coding or letters and numbering on both front and back sides
- Multiple contact points assure a continuously reliable electrical connection
- Engineered to IP67 watertight and IP69K high-pressure, high-temperature washdown standards
- North American Rated Devices 20A, 30A, 60A and 100A
- Meets North American IEC 60309-1 and 60309-2 Standards
- UL Rated for both 50Hz and 60Hz applications
- Rockwell Automation Encompass™ Product Partner
- Backed by a limited 2-year warranty



Pin & Contact Carrier, 60 & 100 Amp

- Protects pins and contacts, holding them firmly in place
- Pin carrier and contact carrier constructed of glass fiber reinforced nylon for maximum impact resistance and maximum protection of pins and contacts
- Superior arc-tracking resistance
- Excellent heatresistance and flame resistance
- Chamfered wire entry makes wiring easier



Pin & Contact Carrier, 20 & 30 Amp

- Pin carrier and contact carrier constructed of nylon for maximum impact resistance and maximum protection of pins and contacts
- Terminal screws are aligned on a single plane for easier access
- Internal hinged cord clamp adds strain-relief and swings aside when wiring terminals
- Large diameter combination head terminal screws



Pins

- Designed for manageable insertion/ withdrawal force
- Clean brass construction resists corrosion, provides superior contact and low electrical resistance
- Rounded tips reduce insertion force and decrease wear on the contact surface area



Sleeves (Contacts)

- Designed for manageable insertion/ withdrawal force
- Clean brass construction resists corrosion, provides superior contact and low electrical resistance
- Self-adjusting, machine-calibrated contacts for accurate contact pressure designed for superior wiping and cleaning action
- Made from high performance Swedish Industrial Standard (SIS) Brass 5170-04
- Positioned at sleeve entrance, stainless steel spring enables pin cleaning at earliest point of entry



Terminal Screws

- Engineered to provide maximum holding power and lowest electrical resistance
- Accepts a wide range of conductors
- Double screws ensure secure connection
- Direct bearing pressure terminals for 20, 30 and 60 Amp ratings; pressure clamp termination for 100 Amp devices



Pin & Sleeve



NORTH AMERICAN RATED | 60A and 100A Watertight

60A and 100A Watertight Pin & Sleeve Devices — North American Rated







Connector - 4100C12W



Receptacle — 360R6W



Inlet — 360B7W



Back Box — BX100-V

Features and Benefits

- Engineered to IP67 watertight and IP69K high-pressure, high-temperature washdown standards
- Engineered to IP67 watertight and IP69K high-pressure, Meet North American IEC 60309-1 and 60309-2 Standards
 - Backed by a limited 2-year warranty

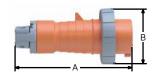
| Amps | Wiring | Voltage AC | Color | Connector/ Receptacle | Plug/ Inlet | Cat. No. Plug | Cat. No. Connector | Cat. No. Receptacle | Cat. No. Inlet | Cat. No. Back Box |
|------|--------|---------------|--------|--------------------------|----------------|------------------|-----------------------|------------------------|-------------------|----------------------|
| 60 | 2p3w | 125 | Yellow | & | © | 360P4W | 360C4W | 360R4W | 360B4W | BX60-V |
| | 2p3w | 250 | Blue | © | (3) | 360P6W | 360C6W | 360R6W | 360B6W | BX60-V |
| | 2p3w | 480 | Red | © | (| 360P7W | 360C7W | 360R7W | 360B7W | BX60-V |
| | 3p4w | 125/250 | Orange | ⊗ | (3) | 460P12W | 460C12W | 460R12W | 460B12W | BX60-V |
| | 3p4w | 3Ø250 | Blue | ⊗ | (3) | 460P9W | 460C9W | 460R9W | 460B9W | BX60-V |
| | 3p4w | 3Ø480 | Red | ₿ | (3) | 460P7W | 460C7W | 460R7W | 460B7W | BX60-V |
| | 3p4w | 3Ø600 | Black | €9 | (3) | 460P5W | 460C5W | 460R5W | 460B5W | BX60-V |
| | 4p5w | 3ØY120/208 | Blue | ③ | (3) | 560P9W | 560C9W | 560R9W | 560B9W | BX60-V |
| | 4p5w | 3ØY277/480 | Red | ® | (3) | 560P7W | 560C7W | 560R7W | 560B7W | BX60-V |
| | 4p5w | 3ØY347/600 | Black | ® | (3) | 560P5W | 560C5W | 560R5W | 560B5W | BX60-V |
| 100 | 2p3w | 125 | Yellow | € | © | 3100P4W | 3100C4W | 3100R4W | 3100B4W | BX100-V |
| | 2p3w | 250 | Blue | © | (3) | 3100P6W | 3100C6W | 3100R6W | 3100B6W | BX100-V |
| | 2p3w | 480 | Red | ® | (3) | 3100P7W | 3100C7W | 3100R7W | 3100B7W | BX100-V |
| | 3p4w | 125/250 | Orange | 8 | © | 4100P12W | 4100C12W | 4100R12W | 4100B12W | BX100-V |
| | 3p4w | 3Ø250 | Blue | 8 | (3) | 4100P9W | 4100C9W | 4100R9W | 4100B9W | BX100-V |
| | 3p4w | 3Ø480 | Red | € | (3) | 4100P7W | 4100C7W | 4100R7W | 4100B7W | BX100-V |
| | 3p4w | 3Ø600 | Black | ® | (| 4100P5W | 4100C5W | 4100R5W | 4100B5W | BX100-V |
| | 4p5w | 3ØY120/208 | Blue | ③ | (3) | 5100P9W | 5100C9W | 5100R9W | 5100B9W | BX100-V |
| | 4p5w | 3ØY277/480 | Red | ® | © | 5100P7W | 5100C7W | 5100R7W | 5100B7W | BX100-V |
| | 4p5w | 3ØY347/600 | Black | 6 | © | 5100P5W | 5100C5W | 5100R5W | 5100B5W | BX100-V |



NORTH AMERICAN RATED | Dimensions

Plugs — North American Rated





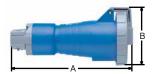
20A, 30A Plug



60A, 100A Plug

| Dimensions for Plugs | | | | | | | | | |
|----------------------|------|--------------------|--------------------|----------------|----------------|-----------------------------|-------------------------|--|--|
| Cat. No. | Amps | Unit (inches) A | Unit (inches) B | Unit (mm) A | Unit (mm) B | Cord Grip Range (Inches) | Cord Grip Range (mm) | | |
| 320P | 20 | 5.83 | 2.80 | 148 | 71 | 0.350 -0.860 | 9 - 22 | | |
| 420P | 20 | 6.46 | 3.11 | 164 | 79 | 0.350 -0.860 | 9 - 22 | | |
| 520P | 20 | 6.61 | 3.43 | 168 | 87 | 0.437 -1.187 | 11 - 30 | | |
| 330P | 30 | 6.85 | 3.70 | 174 | 94 | 0.437 -1.187 | 11 - 30 | | |
| 430P | 30 | 6.85 | 3.70 | 174 | 94 | 0.437 -1.187 | 11 - 30 | | |
| 530P | 30 | 7.40 | 3.98 | 188 | 101 | 0.437 -1.450 | 11 - 37 | | |
| 360P | 60 | 10.83 | 4.49 | 275 | 114 | 0.670 -1.625 | 17 - 41 | | |
| 460P | 60 | 10.83 | 4.49 | 275 | 114 | 0.670 -1.625 | 17 - 41 | | |
| 560P | 60 | 10.83 | 4.49 | 275 | 114 | 0.670 -1.625 | 17 - 41 | | |
| 3100P | 100 | 12.3 | 5.00 | 312 | 127 | 0.950 -1.875 | 24 - 48 | | |
| 4100P | 100 | 12.3 | 5.00 | 312 | 127 | 0.950 -1.875 | 24 - 48 | | |
| 5100P | 100 | 12.3 | 5.00 | 312 | 127 | 0.950 -1.875 | 24 - 48 | | |

Connectors — North American Rated



20A, 30A Connector



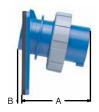
60A, 100A Connector

| Dimensions for Connectors | | | | | | | | |
|---------------------------|------|---------------|---------------|-----------|-----------|----------------|------------|--|
| Cat. No. | Amps | Unit (inches) | Unit (inches) | Unit (mm) | Unit (mm) | Cord Grip | Cord Grip | |
| | | Α | В | Α | В | Range (Inches) | Range (mm) | |
| 320C | 20 | 6.73 | 3.19 | 171 | 81 | 0.350 -0.860 | 9 - 22 | |
| 420C | 20 | 7.36 | 3.46 | 187 | 88 | 0.350 -0.860 | 9 - 22 | |
| 520C | 20 | 7.95 | 3.82 | 202 | 97 | 0.437 -1.187 | 11 - 30 | |
| 330C | 30 | 7.95 | 4.02 | 202 | 102 | 0.437 -1.187 | 11 - 30 | |
| 430C | 30 | 7.95 | 4.02 | 202 | 102 | 0.437 -1.187 | 11 - 30 | |
| 530C | 30 | 8.27 | 4.29 | 210 | 109 | 0.437 -1.450 | 11 - 37 | |
| 360C | 60 | 11.26 | 4.41 | 286 | 112 | 0.670 -1.625 | 17 - 41 | |
| 460C | 60 | 11.26 | 4.41 | 286 | 112 | 0.670 -1.625 | 17 - 41 | |
| 560C | 60 | 11.26 | 4.41 | 286 | 112 | 0.670 -1.625 | 17 - 41 | |
| 3100C | 100 | 12.8 | 4.84 | 325 | 123 | 0.950 -1.875 | 24 - 48 | |
| 4100C | 100 | 12.8 | 4.84 | 325 | 123 | 0.950 -1.875 | 24 - 48 | |
| 5100C | 100 | 12.8 | 4.84 | 325 | 123 | 0.950 -1.875 | 24 - 48 | |

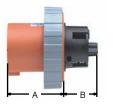


NORTH AMERICAN RATED | Dimensions

Inlets — North American Rated



20A, 30A Inlet



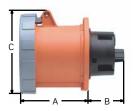
60A, 100A Inlet

| Dimensions for Inlets | | | | | | | | | |
|-----------------------|------|---------------|---------------|-----------|-----------|--|--|--|--|
| Cat. No. | Amps | Unit (inches) | Unit (inches) | Unit (mm) | Unit (mm) | | | | |
| | | A | В | Α | В | | | | |
| 320B | 20 | 1.85 | 0.39 | 47 | 10 | | | | |
| 420B | 20 | 2.09 | 0.39 | 53 | 10 | | | | |
| 520B | 20 | 2.32 | 0.39 | 59 | 10 | | | | |
| 330B | 30 | 2.36 | 0.47 | 60 | 12 | | | | |
| 430B | 30 | 2.36 | 0.47 | 60 | 12 | | | | |
| 530B | 30 | 2.64 | 0.47 | 67 | 12 | | | | |
| 360B | 60 | 3.15 | 1.97 | 80 | 50 | | | | |
| 460B | 60 | 3.15 | 1.97 | 80 | 50 | | | | |
| 560B | 60 | 3.15 | 1.97 | 80 | 50 | | | | |
| 3100B | 100 | 3.50 | 2.21 | 89 | 56 | | | | |
| 4100B | 100 | 3.50 | 2.21 | 89 | 56 | | | | |
| 5100B | 100 | 3.50 | 2.21 | 89 | 56 | | | | |

Receptacles — North American Rated



20A, 30A Receptacle



60A, 100A Receptacle

| Dimensions for Receptacles | | | | | | | | | |
|----------------------------|------|---------------|---------------|---------------|-----------|-----------|-----------|--|--|
| Cat. No. | Amps | Unit (inches) | Unit (inches) | Unit (inches) | Unit (mm) | Unit (mm) | Unit (mm) | | |
| | | Α | В | С | Α | В | С | | |
| 320R | 20 | 1.77 | 2.24 | 3.74 | 45 | 57 | 95 | | |
| 420R | 20 | 1.77 | 2.24 | 3.74 | 45 | 57 | 95 | | |
| 520R | 20 | 1.85 | 2.24 | 3.90 | 47 | 57 | 99 | | |
| 330R | 30 | 2.20 | 2.40 | 4.10 | 56 | 61 | 104 | | |
| 430R | 30 | 2.20 | 2.40 | 4.10 | 56 | 61 | 104 | | |
| 530R | 30 | 2.20 | 2.44 | 4.37 | 56 | 62 | 111 | | |
| 360R | 60 | 3.50 | 1.89 | 4.37 | 89 | 48 | 111 | | |
| 460R | 60 | 3.50 | 1.89 | 4.37 | 89 | 48 | 111 | | |
| 560R | 60 | 3.50 | 1.89 | 4.37 | 89 | 48 | 111 | | |
| 3100R | 100 | 3.94 | 2.28 | 4.80 | 100 | 58 | 122 | | |
| 4100R | 100 | 3.94 | 2.28 | 4.80 | 100 | 58 | 122 | | |
| 5100R | 100 | 3.94 | 2.28 | 4.80 | 100 | 58 | 122 | | |

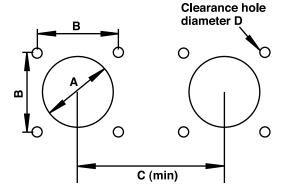


NORTH AMERICAN RATED | Drilling Plans

Inlets & Receptacles Drilling Plans — North American Rated

| Drilling Plans for Inlets & Receptacles | | | | | | | | | |
|---|------------|-------------|----|-------------|----|----------------------|----|--|--|
| Device Size | Device | A inches | mm | B inches | mm | C (min) inches mm | D | | |
| 20A; 3-wire: | Receptacle | 2.13 | 54 | 2.17 | 55 | 3.94 100 | #8 | | |
| | Inlet | 1.93 | 49 | 1.73 | 44 | 3.35 85 | #8 | | |
| 20A; 4-wire: | Receptacle | 2.52 | 64 | 2.36 | 60 | 4.33 110 | #8 | | |
| | Inlet | 2.32 | 59 | 2.05 | 52 | 3.94 100 | #8 | | |
| 20A; 5-wire: | Receptacle | 2.87 | 73 | 2.72 | 69 | 3.94 100 | #8 | | |
| | Inlet | 2.32 | 59 | 2.05 | 52 | 3.94 100 | #8 | | |
| 30A; 3-wire: | Receptacle | 2.99 | 76 | 2.72 | 69 | 5.12 130 | #8 | | |
| | Inlet | 2.56 | 65 | 2.40 | 61 | 4.53 115 | #8 | | |
| 30A; 4-wire: | Receptacle | 2.99 | 76 | 2.72 | 69 | 5.12 130 | #8 | | |
| | Inlet | 2.56 | 65 | 2.40 | 61 | 4.53 115 | #8 | | |
| 30A; 5-wire: | Receptacle | 3.11 | 79 | 2.72 | 69 | 5.71 145 | #8 | | |
| | Inlet | 2.56 | 65 | 2.40 | 61 | 4.53 115 | #8 | | |
| 60A | All | 2.76 | 70 | 2.40 | 61 | 6.69 170 | #8 | | |
| 100A | All | 3.19 | 81 | 2.80 | 71 | 7.87 200 | #8 | | |

Drilling Plans



SPOTLIGHT

Industrial Devices

For over 107 years, Leviton has been helping businesses power their equipment safely, reliably, and efficiently. The Leviton line of rugged industrial electrical products comprises devices rated up to 1100A at 1000V, and includes devices with watertight and dust-tight ratings. For more information on Industrial devices visit us online at www.leviton.com/industrial





NORTH AMERICAN RATED | UL Performance Specifications

UL 1682 & 1686 Performance Specifications — North American Rated

| Electrical | | | | | |
|-----------------------|---|--|--|--|--|
| Category | Specifications | | | | |
| Dielectric Voltage | Devices rated ≤300V: 2000\ | / for 1 min. Devices rated >300V: 3000V for 1 min. | | | |
| Insulation Resistance | 500V for 1 min. insulation re | sistance ≥5 megohms | | | |
| Ground Path Current | Apply high current for short | time and maintain continuity | | | |
| Overload | 150% of rated current and 100% of rated voltage for 50 cycles | | | | |
| | (Power factor 0.75-0.80) | | | | |
| Current Interrupting | Certified for current interrup | ting at full-rated current and voltage | | | |
| Temperature Rise | Max 30°C rise at full rated cu | urrent (after overload) | | | |
| Resistance to Arcing | Continuation of overload for | additional 200 cycles | | | |
| Endurance with Load | Device | # Cycles with Load | | | |
| | 20A | 5000 Rated Current, Voltage | | | |
| | 30A, 60A | 1000 Rated Current, Voltage | | | |
| | 100A (Power Factor 0.75 - 0.80) | 250 Rated Current, Voltage | | | |



460P7W

| Mechanical | | | | | |
|------------------------|---|---|--|--|--|
| Category | Specifications | | | | |
| Mold Stress Relief | 70°C for 7 hrs | | | | |
| Humidity | 32°C, 93% humidity, 168 h | nrs | | | |
| Cable Secureness | Pull force and apply torqu | e for 1 minute | | | |
| Impact | Drop from 30" 8 times aft | er conditioning to -25°C, for 6 hrs | | | |
| Crush | 250 lbs for 1 min after -25°C for 6 hrs | | | | |
| Withdrawal Force | Pull for one minute | | | | |
| Strength of Insulating | 110% of specified tighten | ing torque | | | |
| Base and Support | on terminal screws | | | | |
| Polarization Integrity | • | mate so that ground is energized even when oved and 40-lb insertion force applied | | | |
| Endurance with Load | Device | Total # Cycles (connect & disconnect) | | | |
| | 20A | 5000 | | | |
| | 30A, 60A | 2000 | | | |
| | 100A | 500 | | | |



460C12W

| Specifications | | | | |
|---|--|--|--|--|
| V-2 or better on 20 and 30 Amp devices per UL 94 or CSA 22.2 #0.6 ; | | | | |
| V-0 on 60 and 100 Amp devices | | | | |
| Ferrous parts immersed in 10% ammonium chloride solution at | | | | |
| 20°C for 10 min. | | | | |
| Watertight: Device immersed for 24 hrs in 5 cm of 25°C water | | | | |
| Splashproof: 1" dia. water stream at 15 PSI from 10 ft. for 5 minutes | | | | |
| Exposed plastic materials are UV stabilized | | | | |
| | | | | |

Continued on next page



NORTH AMERICAN RATED | UL Performance Specifications

UL 1682 & 1686 Performance Specifications — North American Rated



| Short-Time Grounding Test Currents | | | | | | | | |
|------------------------------------|------------------------|-------|---------|--------------|--|--|--|--|
| Device Rating | Minimum Size Equipment | | Time | Test Current | | | | |
| Amps | | | Seconds | Amps | | | | |
| | AWG | (mm2) | | | | | | |
| 20 | 12 | (3.3) | 4 | 470 | | | | |
| 30 | 10 | (5.3) | 4 | 750 | | | | |
| 60 | 10 | (5.3) | 4 | 750 | | | | |
| 100 | 8 | (8.4) | 4 | 1180 | | | | |

Ground-path integrity is of critical importance to safe operation of industrial equipment. Leviton pin and sleeve devices are tested by applying a test current through their ground path that far exceeds the device rating. All devices are properly wired and connected to line current at rated values. Then the ground path is subjected to a dramatic, sudden increase in current for 4 seconds. In all cases, the ground pin, sleeve and terminals of the devices must sustain the test current, continue to function properly, and show no evidence of damage or deterioration in any electrical or mechanical elements of the ground path. Test current values and test parameters are displayed in the above chart

| Cord Secureness Test Values | | | | | | | | |
|-----------------------------|-------|-----|--------|-------|----------------------|--|--|--|
| Device Rating | Force | | Torque | | Maximum Displacement | | | |
| Amps | lb | N | ft-lb | N • M | inches mm | | | |
| 20 | 30 | 133 | 0.4 | 0.54 | ≤3/32 2.38 | | | |
| 30 | 75 | 333 | 0.5 | 0.68 | ≤3/32 2.38 | | | |
| 30 60 | 150 | 667 | 1.0 | 1.4 | ≤3/32 2.38 | | | |
| 100 | 150 | 667 | 2.0 | 2.7 | ≤3/32 2.38 | | | |

Heavy cord stress is typical of industrial applications. To assure you of top performance, Leviton pin and sleeve devices are subjected to a punishing series of tests to confirm they can absorb heavy cord pulls. The cord conductors wired to devices are simultaneously twisted and pulled. Values for the applied twisting torque and force of pull are shown above. In all cases, the cord displacement is less than 3/32 inches

| Minimum Withdrawal Force | | | |
|--------------------------|---------|--------------------------|--|
| Device Rating | Minimum | Minimum Withdrawal Force | |
| Amps | lb | N | |
| 20 | 5 | 22 | |
| 30 | 6 | 27 | |
| 60 | 15 | 67 | |
| 100 | 20 | 89 | |

In industrial settings, inadvertent disconnection of power can be troublesome at best, dangerous at worst, and unacceptable in any case. To verify that Leviton pin and sleeve plugs and connectors remain securely connected, they are tested to establish the minimum force required for withdrawal. In establishing these minimum withdrawal forces, the plugs and connectors are properly mated, but not locked, with locking rings or other mechanical means. The pins and sleeves provide the only resistance to the force of withdrawal. In all cases, the values in the table above show the minimum force required to separate the plugs and connectors

SPOTLIGHT

30 Amp Stainless Steel Enclosed Safety Disconnect Switch

Our new 30 Amp, Non-Fused Safety Disconnect Switch features a Type 304, Non-Magnetic Stainless Steel enclosure for added resistance against bacterial growth and chemical corrosion. Ideal for use in areas requiring heavy washdown, the MDS30-AX is a perfect fit in food and beverage processing facilities, factories and plants, marinas and shipyards, and other abusive industrial applications. Visit www.leviton.com/powerswitch for more information on safety disconnect switches.

