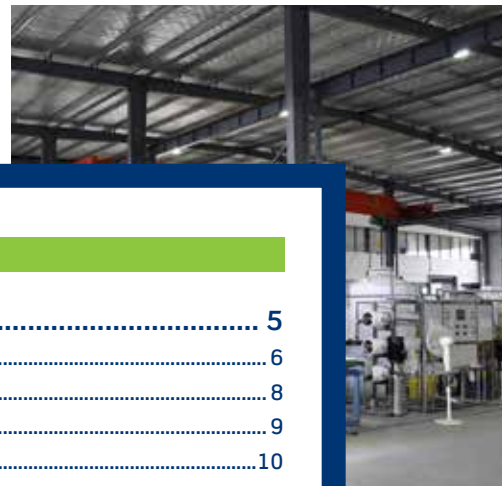


# Industrial Grade Switches







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# Industrial Grade Switches



Leviton is the smart choice, providing the most comprehensive range of solutions to meet the needs of today's commercial and industrial buildings. Leveraging more than a century of experience, Leviton helps customers create sustainable, intelligent environments through its electrical wiring devices, network and data center connectivity solutions, and lighting energy management systems. From switches and receptacles, to daylight harvesting controls, networking systems, and equipment for charging electric vehicles, Leviton solutions help customers achieve savings in energy, time and cost, all while enhancing safety.





## Section 1

# AC Toggle Switches

# AC Toggle Switches

Leviton Extra Heavy Duty AC Toggle Switches have been designed to provide superior performance in the most demanding environments. These devices feature large, silver alloy contacts that are resistant to sticking, welding and pitting. The single-piece copper alloy contact arm and toggle mechanism ensure proper contact alignment and smooth toggle operation. Plus, these switches employ number of features that are designed to speed installation. All of this adds up to superior performance and long service life, backed by a 10-year limited warranty.



1221-2I  
(Front View)

## Features and Benefits

- Heavy gauge galvanized steel mounting strap provides superior strength and resists corrosion
- Thermoplastic toggle is highly resistant to impact and withstands elevated operating temperatures
- Brass self-grounding clip is staked on to strap to provide ground continuity between strap and metal wall box
- Switch covers are color coded for easy amperage identification: blue = 15 A, red = 20 A, green = 30 A
- External clamp wiring terminals allow for easy back- or side-wiring, and provide feed-thru capabilities eliminating the need for pigtails
- Integral ground terminal also employs a clamp for quick and easy back- or side-wiring
- Large head brass terminal screws ensures secure wire connection while triple-drive feature provides maximum flexibility
- Convenient markings for line and load terminals and wire strip length for back-wire applications help speed installation



1221-2I  
(Rear View)



1202-2L



1243-LGY



3031-PLC



1222-2KL

|                                | Amp/<br>Cover Color | White                 | Ivory                 | Gray     | Black   | Brown   | Red                   | Light<br>Almond | Clear                 | Green    |
|--------------------------------|---------------------|-----------------------|-----------------------|----------|---------|---------|-----------------------|-----------------|-----------------------|----------|
| <b>SINGLE POLE</b>             |                     |                       |                       |          |         |         |                       |                 |                       |          |
| Toggle                         | 15 A                | 1201-2W               | 1201-2I               | 1201-2GY | —       | 1201-2  | 1201-2R               | —               | —                     | —        |
|                                | 20 A                | 1221-2W               | 1221-2I               | 1221-2GY | 1221-2E | 1221-2  | 1221-2R               | 1221-2T         | —                     | —        |
|                                | 30 A                | 3031-2W               | 3031-2I               | —        | —       | 3031-2  | —                     | —               | —                     | —        |
| Tamper-<br>Resistant<br>Toggle | 15 A                | —                     | 1201-2IL              | —        | —       | 1201-2L | —                     | —               | —                     | —        |
|                                | 20 A                | 1221-2WL              | 1221-2IL              | 1221-2GL | —       | 1221-2L | 1221-2RL              | —               | —                     | —        |
|                                | 30 A                | —                     | —                     | —        | —       | 3031-2L | —                     | —               | —                     | —        |
| Pilot Light                    | 15 A                | —                     | —                     | —        | —       | —       | 1201-PLR              | —               | 1201-PLC              | 1201-PLG |
|                                | 20 A                | —                     | —                     | —        | —       | —       | 1221-PLR <sup>1</sup> | —               | 1221-PLC <sup>1</sup> | 1221-PLG |
|                                | 30 A                | —                     | —                     | —        | —       | —       | 3031-PLR              | —               | 3031-PLC              | —        |
| Lighted<br>Toggle              | 15 A                | 1201-LHW              | 1201-LHI              | —        | —       | —       | 1201-LHR              | —               | 1201-LHC              | —        |
|                                | 20 A                | 1221-LHW <sup>2</sup> | 1221-LHI <sup>2</sup> | —        | —       | —       | 1221-LHR <sup>2</sup> | —               | 1221-LHC <sup>2</sup> | —        |
|                                | 30 A                | —                     | 3031-LHI              | —        | —       | —       | —                     | —               | —                     | —        |
| Key Locking                    | 20 A                | 1221-2KL <sup>3</sup> | —                     | —        | —       | —       | —                     | —               | —                     | —        |
| 6-Inch Wire<br>Leads           | 15 A                | 1241-W                | 1241-I                | 1241-LGY | —       | —       | —                     | —               | —                     | —        |
|                                | 20 A                | 1243-W                | 1243-I                | 1243-LGY | —       | —       | —                     | —               | —                     | —        |
| <b>DOUBLE POLE</b>             |                     |                       |                       |          |         |         |                       |                 |                       |          |
| Toggle                         | 15 A                | 1202-2W               | 1202-2I               | 1202-2GY | —       | 1202-2  | —                     | —               | —                     | —        |
|                                | 20 A                | 1222-2W               | 1222-2I               | 1222-2GY | 1222-2E | 1222-2  | 1222-2R               | —               | —                     | —        |
|                                | 30 A                | 3032-2W               | 3032-2I               | —        | 3032-2E | 3032-2  | 3032-2R               | —               | —                     | —        |
| Tamper-<br>Resistant<br>Toggle | 15 A                | —                     | —                     | —        | —       | 1202-2L | —                     | —               | —                     | —        |
|                                | 20 A                | —                     | 122-2IL               | —        | —       | 1222-2L | —                     | —               | —                     | —        |
|                                | 30 A                | —                     | —                     | —        | —       | 3032-2L | —                     | —               | —                     | —        |
| Pilot Light                    | 15 A                | —                     | —                     | —        | —       | —       | 1202-PLR              | —               | —                     | —        |
|                                | 20 A                | —                     | —                     | —        | —       | —       | 1222-PLR <sup>1</sup> | —               | 1222-PLC              | 1222-PLG |
|                                | 30 A                | —                     | —                     | —        | —       | —       | 3032-PLR              | —               | 3032-PLC              | —        |
| Key Locking                    | 20 A                | 1222-2KL <sup>3</sup> | —                     | —        | —       | —       | —                     | —               | —                     | —        |
| <b>THREE-WAY</b>               |                     |                       |                       |          |         |         |                       |                 |                       |          |
| Toggle                         | 15 A                | 1203-2W               | 1203-2I               | 1203-2GY | —       | 1203-2  | 1203-2R               | —               | —                     | —        |
|                                | 20 A                | 1223-2W               | 1223-2I               | 1223-2GY | 1223-2E | 1223-2  | 1223-2R               | 1223-2T         | —                     | —        |
|                                | 30 A                | 3033-2W               | 3033-2I               | —        | —       | 3033-2  | —                     | —               | —                     | —        |
| Tamper-<br>Resistant<br>Toggle | 15 A                | —                     | 1203-2IL              | —        | —       | 1203-2L | —                     | —               | —                     | —        |
|                                | 20 A                | 1223-2WL              | 1223-2IL              | 1223-2GL | —       | 1223-2L | —                     | —               | —                     | —        |
|                                | 30 A                | —                     | —                     | —        | —       | 3033-2L | —                     | —               | —                     | —        |
| Pilot Light                    | 15 A                | —                     | —                     | —        | —       | —       | 1203-PLR              | —               | 1203-PLC              | 1203-PLG |
|                                | 20 A                | —                     | —                     | —        | —       | —       | 1223-PLR <sup>1</sup> | —               | 1223-PLC              | 1223-PLG |
| Lighted<br>Toggle              | 15 A                | 1203-LHW              | 1203-LHI              | —        | —       | —       | 1203-LHR              | —               | 1203-LHC              | —        |
|                                | 20 A                | 1223-LHW <sup>2</sup> | 1223-LHI <sup>2</sup> | —        | —       | —       | —                     | —               | 1223-LHC <sup>2</sup> | —        |
| Key Locking                    | 20 A                | 1223-2KL <sup>3</sup> | —                     | —        | —       | —       | —                     | —               | —                     | —        |
| 6-Inch Wire<br>Leads           | 15 A                | 1242-W                | 1242-I                | —        | —       | —       | —                     | —               | —                     | —        |
|                                | 20 A                | 1244-W                | 1244-I                | 1244-LGY | —       | —       | —                     | —               | —                     | —        |
| <b>FOUR-WAY</b>                |                     |                       |                       |          |         |         |                       |                 |                       |          |
| Toggle                         | 15 A                | 1204-2W               | 1204-2I               | 1204-2GY | —       | 1204-2  | —                     | —               | —                     | —        |
|                                | 20 A                | 1224-2W               | 1224-2I               | 1224-2GY | 1224-2E | 1224-2  | 1224-2R               | 1224-2T         | —                     | —        |
| Tamper-<br>Resistant<br>Toggle | 15 A                | —                     | —                     | —        | —       | 1204-2L | —                     | —               | —                     | —        |
|                                | 20 A                | 1224-2WL              | 1224-2IL              | 1224-2GL | —       | 1224-2L | —                     | —               | —                     | —        |
| Key Locking                    | 20 A                | 1224-2KL <sup>3</sup> | —                     | —        | —       | —       | —                     | —               | —                     | —        |

<sup>1</sup> for 277 V Circuits, Replace "P" in Catalog Number Suffix with "7"

<sup>2</sup> for 277 V Circuits, Replace "L" in Catalog Number Suffix with "7"

<sup>3</sup> Key is Silver

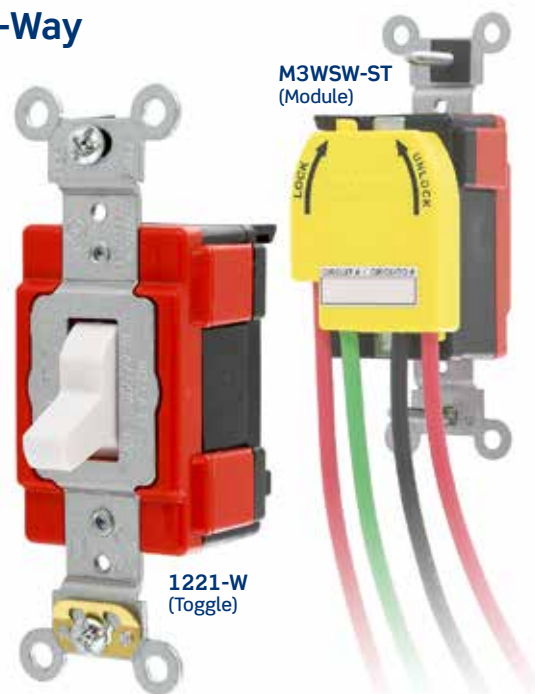
# Modular Toggle Switches

## lev-lok® Single Pole & Three-Way Toggle Switches

The perfect productivity solution for electrical construction and maintenance applications.

### Features and Benefits:

- Devices constructed with impact-resistant thermoplastic nylon cover and body
- Four corner latches securely fasten device's face to body
- Solid brass locking pins for strong, secure connection between device and wiring module
- Wiring module ships with protective cover, preventing debris from entering contacts until device is attached
- Modules have factory-installed circuit ID labels
- Switch covers are color-coded by amp rating for easy identification
- Backed by a limited 10-year warranty



|                                                                                                                             | Amp  | White     | Ivory     | Gray     | Black   | Brown   | Red      | Light Almond  | Clear     |
|-----------------------------------------------------------------------------------------------------------------------------|------|-----------|-----------|----------|---------|---------|----------|---------------|-----------|
| <b>SINGLE POLE</b>                                                                                                          |      |           |           |          |         |         |          |               |           |
| Toggle                                                                                                                      | 15 A | M1201-W   | M1201-I   | M1201-GY | —       | M1201   | M1201-R  | —             | —         |
|                                                                                                                             | 20 A | M1221-W   | M1221-I   | M1221-GY | M1221-E | M1221   | M1221-R  | M1221-T       | —         |
| Tammer-Resistant Toggle                                                                                                     | 15 A | —         | M1201-IL  | —        | —       | M120L-L | —        | —             | —         |
|                                                                                                                             | 20 A | M1221-WL  | M1221-IL  | M1221-GL | —       | M1221-L | M1221-RL | —             | —         |
| Lighted Toggle                                                                                                              | 15 A | M1201-LHW | M1201-LHI | —        | —       | —       | —        | —             | M1201-LHC |
|                                                                                                                             | 20 A | M1221-LHW | M1221-LHI | —        | —       | —       | —        | —             | M1221-LHC |
| <b>THREE-WAY</b>                                                                                                            |      |           |           |          |         |         |          |               |           |
| Toggle                                                                                                                      | 15 A | M1203-W   | M1203-I   | M1203-GY | —       | M1203   | M1203-R  | —             | —         |
|                                                                                                                             | 20 A | M1223-W   | M1223-I   | M1223-GY | M1223-E | M1223   | M1223-R  | M1223-T       | —         |
| Tammer-Resistant Toggle                                                                                                     | 15 A | —         | M1203-IL  | —        | —       | M120L-L | —        | —             | —         |
|                                                                                                                             | 20 A | M1223-WL  | M1223-IL  | M1223-GL | —       | M1223-L | M1223-RL | —             | —         |
| Lighted Toggle                                                                                                              | 15 A | M1203-LHW | M1203-LHI | —        | —       | —       | —        | —             | M1203-LHC |
|                                                                                                                             | 20 A | M1223-LHW | M1223-LHI | —        | —       | —       | —        | —             | M1223-LHC |
| <b>Wiring Modules for Single Pole Switches</b>                                                                              |      |           |           |          |         |         |          | <b>Cat No</b> |           |
| Stranded Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Black, Black, Green                                |      |           |           |          |         |         |          | MSPSW-ST      |           |
| Stranded Wire Leads (6"L) with Push Wire Connectors - Yellow Module, Wire Type: THHN, Wire Colors: Black, Black, Green      |      |           |           |          |         |         |          | MSPSW-WST     |           |
| Solid Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Black, Black, Green                                   |      |           |           |          |         |         |          | MSPSW-SD      |           |
| Stranded Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Brown, Brown, Green                                |      |           |           |          |         |         |          | MSPSW-7ST     |           |
| Solid Wire Leads (6"L) - Yellow Module, Wire Type: THHN, Wire Colors: Brown, Brown, Green                                   |      |           |           |          |         |         |          | MSPSW-7SD     |           |
| <b>Wiring Modules for Three-Way Switches</b>                                                                                |      |           |           |          |         |         |          | <b>Cat No</b> |           |
| Stranded Wire Leads (6"L) - Yellow Module, Wire Type: XHHW-2, Wire Colors: Black, Red, Red, Green                           |      |           |           |          |         |         |          | M3WSW-ST      |           |
| Stranded Wire Leads (6"L) with Push Wire Connectors - Yellow Module, Wire Type: XHHW-2, Wire Colors: Black, Red, Red, Green |      |           |           |          |         |         |          | M3WSW-WST     |           |
| Stranded Wire Leads (6"L) - Yellow Module, Wire Type: XHHW-2, Wire Colors: Brown, Yellow, Yellow, Green                     |      |           |           |          |         |         |          | M3WSW-7ST     |           |
| Solid Wire Leads (6"L) - Yellow Module, Wire Type: XHHW-2, Wire Colors: Black, Red, Red, Green                              |      |           |           |          |         |         |          | M3WSW-SD      |           |

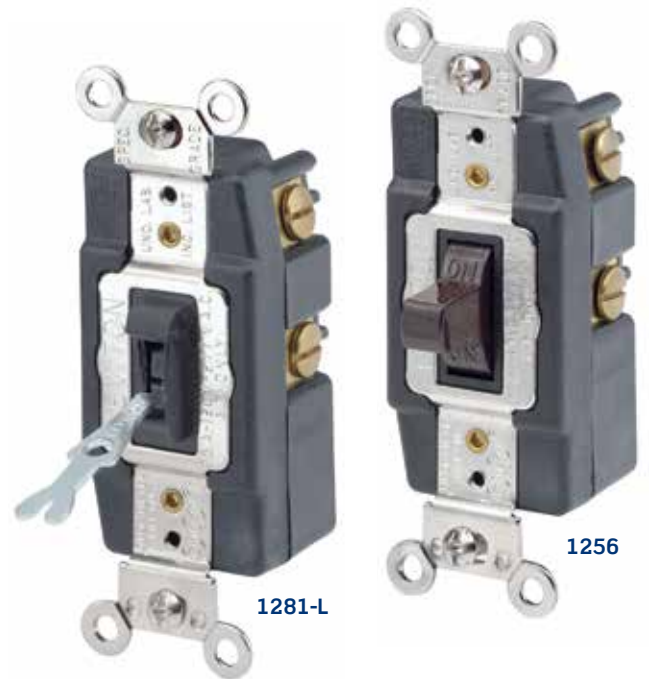
# Momentary & Maintained Contact Toggle Switches

Leviton Three Position Toggle Switches provide the same high level of performance as our two-position (ON/OFF) toggle switches and are ideal for special purpose applications. They are available in both maintained and momentary contact (Center OFF) configurations, and conform to UL 60947-4-1 (supersedes UL 508).

These switches can be used at full rated current for fluorescent, tungsten, and resistive loads; 80% of rated current for motor loads.

## Features and Benefits:

- Heavy gauge nickel-plated steel mounting strap provides superior strength and resists corrosion
- Thermoplastic toggle is highly resistant to impact and withstands elevated operating temperatures
- Large head brass terminal screws ensures secure wire connection
- Terminal wiring clamps provide convenient back- and side-wiring options



## Maintained Contact

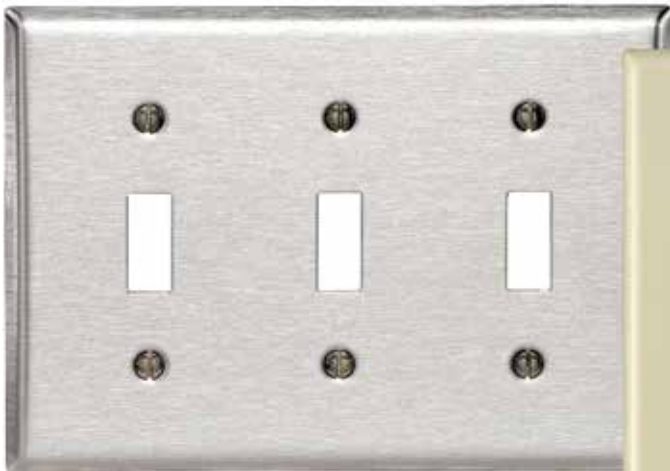
|                                              | Amp  | White  | Ivory  | Gray    | Black  | Brown | Red    | Light Almond |
|----------------------------------------------|------|--------|--------|---------|--------|-------|--------|--------------|
| <b>SINGLE POLE, DOUBLE THROW, CENTER OFF</b> |      |        |        |         |        |       |        |              |
| Toggle                                       | 15 A | 1281-W | 1281-I | —       | —      | 1281  | —      | —            |
|                                              | 20 A | 1285-W | 1285-I | 1285-GY | —      | 1285  | 1285-R | 1285-T       |
|                                              | 30 A | —      | 1287-I | —       | —      | 1287  | —      | —            |
| Tamper-Resistant Toggle                      | 15 A | —      | —      | —       | 1281-L | —     | —      | —            |
|                                              | 20 A | —      | —      | —       | 1285-L | —     | —      | —            |
|                                              | 30 A | —      | —      | —       | 1287-L | —     | —      | —            |
| <b>DOUBLE POLE, DOUBLE THROW, CENTER OFF</b> |      |        |        |         |        |       |        |              |
| Toggle                                       | 15 A | 1282-W | 1282-I | —       | —      | 1282  | —      | —            |
|                                              | 20 A | 1286-W | 1286-I | —       | —      | 1286  | —      | —            |
|                                              | 30 A | 1288-W | 1288-I | —       | —      | 1288  | —      | —            |
| Tamper-Resistant Toggle                      | 30 A | —      | —      | —       | 1288-L | —     | —      | —            |

## Momentary Contact

|                                              | Amp  | White  | Ivory  | Gray    | Black  | Brown | Red    | Light Almond |
|----------------------------------------------|------|--------|--------|---------|--------|-------|--------|--------------|
| <b>SINGLE POLE, DOUBLE THROW, CENTER OFF</b> |      |        |        |         |        |       |        |              |
| Toggle                                       | 15 A | 1256-W | 1256-I | 1256-GY | —      | 1256  | —      | —            |
|                                              | 20 A | 1257-W | 1257-I | 1257-GY | —      | 1257  | 1257-R | 1257-T       |
|                                              | 30 A | —      | —      | —       | —      | 1260  | —      | —            |
| Tamper-Resistant Toggle                      | 20 A | —      | —      | —       | 1257-L | —     | —      | —            |
| <b>DOUBLE POLE, DOUBLE THROW, CENTER OFF</b> |      |        |        |         |        |       |        |              |
| Toggle                                       | 30 A | —      | —      | —       | —      | 1262  | —      | —            |

# Wallplates

Leviton offers one of the widest selections of toggle switch wall plates in the industry. From single- to ten-gang, nylon to stainless steel and painted metal, and special purpose locking and tamper-resistant styles, we've got your switches covered.



80141-40



80709-1



84001-40

| Description | Color | NYLON    |        | METAL                 |                             |         |          |
|-------------|-------|----------|--------|-----------------------|-----------------------------|---------|----------|
|             |       | Standard | Midway | Material              | Standard                    | Midway  | Oversize |
| 1-Gang      | White | 80701-W  | PJ1-W  | Type 302 SS (non-mag) | 84001-40                    | SSJ1-40 | 84001-40 |
|             | Ivory | 80701-I  | PJ1-I  | Type 430 SS           | 84001                       | —       | 84101    |
|             | Gray  | 80701-GY | PJ1-GY | Aluminum              | 83001                       | —       | —        |
|             | Black | 80701-E  | PJ1-E  | Chrome                | 1901                        | —       | —        |
|             | Brown | 80701    | PJ1    | Painted Metal         | See custom order form pg 40 |         |          |
| 2-Gang      | White | 80709-W  | PJ2-W  | Type 302 SS (non-mag) | 84009-40                    | SSJ2-40 | 84009-40 |
|             | Ivory | 80709-I  | PJ2-I  | Type 430 SS           | 84009                       | —       | —        |
|             | Gray  | 80709-GY | PJ2-GY | Aluminum              | 83009                       | —       | —        |
|             | Black | 80709-E  | PJ2-E  | Chrome                | 1909                        | —       | —        |
|             | Brown | 80709    | —      | Painted Metal         | See custom order form pg 40 |         |          |
| 3-Gang      | White | 80711-W  | PJ3-W  | Type 302 SS (non-mag) | 84011-40                    | SSJ3-40 | 84011-40 |
|             | Ivory | 80711-I  | PJ3-I  | Type 430 SS           | 84011                       | —       | —        |
|             | Gray  | 80711-GY | —      | Aluminum              | 83011                       | —       | —        |
|             | Black | 80711-E  | PJ3-E  | Chrome                | 1911                        | —       | —        |
|             | Brown | 80711    | PJ3    | Painted Metal         | See custom order form pg 40 |         |          |

## Special Purpose Wallplates



| Description                                                                                                                 | Cat No    |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Lockout Wall Plate, Type 302 SS</b> - includes tamper-resistant screws and spanner wrench (lock not included)            | 84001-LOK |
| <b>Wall Plate for Key Locking Switches, Type 302 SS, 1-gang</b> - includes tamper-resistant screws and spanner wrench       | 84071-40  |
| <b>Wall Plate for Key Locking Switches, Type 302 SS, 2-gang</b> - includes tamper-resistant screws and spanner wrench       | 84072-40  |
| <b>Wall Plate for Key Locking Switches, Type 302 SS, 3-gang</b> - includes tamper-resistant screws and spanner wrench       | 84073-40  |
| <b>Wetguard® Watertight (IP66, NEMA 4X) Toggle Switch Cover, FS/FD mount, Yellow</b> - for use with 15-40 A toggle switches | COVER-S   |
| <b>Wetguard® Watertight (IP66, NEMA 4X) Toggle Switch Cover, FS/FD mount, Gray</b> - for use with 15-40 A toggle switches   | COVER-GS  |

Custom wallplates, up to twelve gangs in size, made of brass, stainless steel, painted steel, aluminum or chrome, can be special ordered from Leviton. Any combination of the configurations shown can be specified to meet your needs. In addition, standard and custom metal wallplates can be engraved, and standard nylon wallplates can be hot stamped, with the message of your choice.

Please refer to ordering instructions on page 44.



# Antimicrobial Treated Devices

Antimicrobial treated switches and wallplates are designed to help protect against the growth and spread of bacteria on the devices' surfaces. The 20 Amp toggle switches and stainless steel wallplates are protected with material comprising an EPA registered additive but are only visually differentiated by the Leviton logo and antimicrobial symbol.

## Features and Benefits:

- Touch surfaces are completely protected with antimicrobial material
- Antimicrobial materials have been independently lab tested and proven to inhibit 99.9% of bacterial growth
- Standard design and variety of colors allows for seamless integration in public areas with minimal aesthetic disruption
- Available in standard AC toggle switches, Lev-Lok® modular toggle switches and stainless steel wallplates



A1223-2R  
3-Way Toggle



AM120-W Lev-Lok® Single Pole Toggle  
with 84001-A40 Wallplate

### ANTIMICROBIAL TREATED SWITCHES • 20 A, 120/277 V AC

| Description                  | White    | Ivory    | Red      | Gray     |
|------------------------------|----------|----------|----------|----------|
| Toggle, Single Pole          | A1221-2W | A1221-2I | A1221-2R | A1221-GY |
| Toggle, 3-Way                | A1223-2W | A1223-2I | A1223-2R | A1223-GY |
| Lev-Lok® Toggle, Single Pole | AM120-W  | AM120-I  | AM120-R  | AM120-GY |
| Lev-Lok® Toggle, 3-Way       | AM320-W  | AM320-I  | AM320-R  | AM320-GY |

### ANTIMICROBIAL TREATED WALLPLATES

| Description                      | Color                   | Cat. No.  |
|----------------------------------|-------------------------|-----------|
| 1-Gang Toggle                    | Clear (Stainless Steel) | 84001-A40 |
| 2-Gang Toggle                    | Clear (Stainless Steel) | 84009-A40 |
| 1-Gang Engraved EMERGENCY Toggle | Clear (Stainless Steel) | 84001-E4A |

### WIRING MODULES FOR LEV-LOK® MODULAR SWITCHES

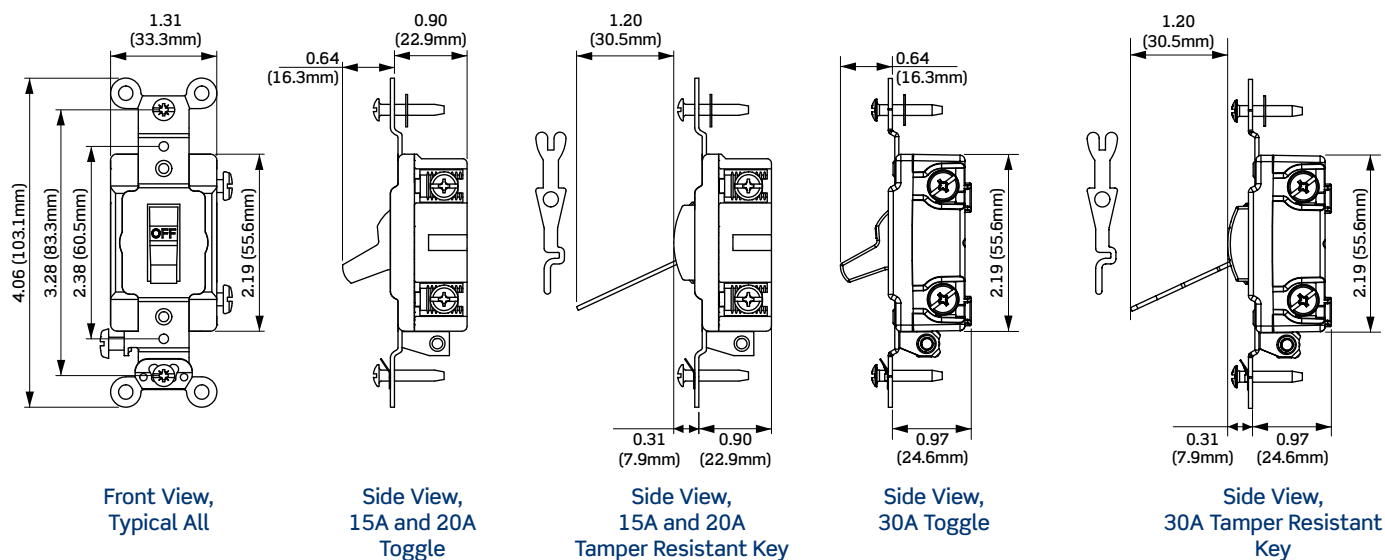
| Description                                     |                         | Module Color | Lead Length | Cat. No. |
|-------------------------------------------------|-------------------------|--------------|-------------|----------|
| For Single Pole 20 A,<br>347 V AC Max. Switches | Stranded Wire Leads #12 | Yellow       | 6"          | MSPSW-ST |
|                                                 | Solid Wire Leads #12    | Yellow       | 6"          | MSPSW-SD |
| For 3-Way 20 A,<br>347 V AC Max. Switches       | Stranded Wire Leads #12 | Yellow       | 6"          | M3WSW-ST |
|                                                 | Solid Wire Leads #12    | Yellow       | 6"          | M3WSW-SD |

## Specifications

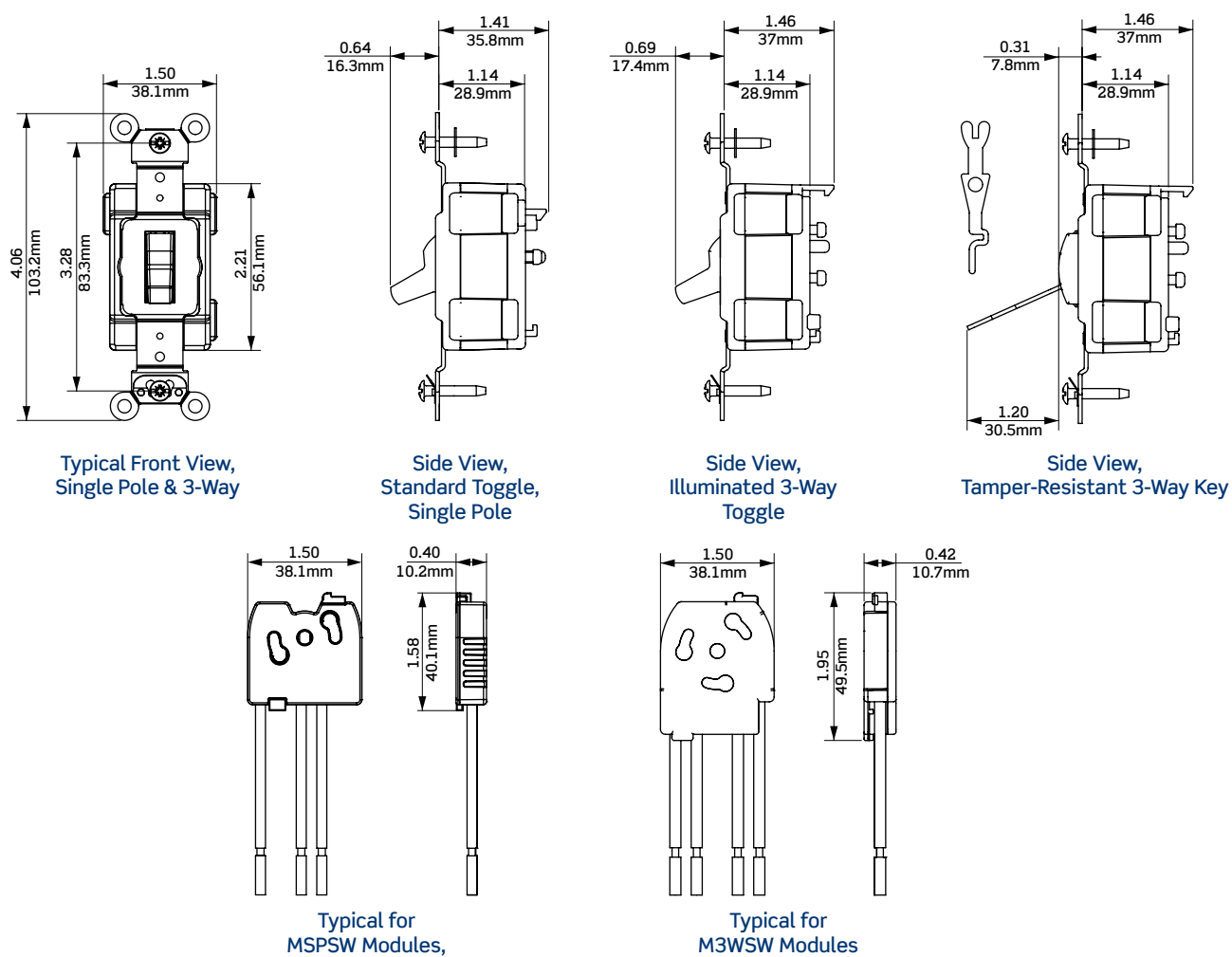
| Description                  | ON/OFF SWITCHES                                                                                                           |       |       |                                                    |       |       |                                                    |       |       | MOMENTARY/ MAINTAINED CONTACT                      |       |       |                                                    |       |       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------|-------|----------------------------------------------------|-------|-------|----------------------------------------------------|-------|-------|----------------------------------------------------|-------|-------|----------------------------------------------------|-------|-------|
|                              | Toggle                                                                                                                    |       |       | Tamper-Resistant                                   |       |       | Pilot Light/<br>Lighted Handle                     |       |       | Toggle                                             |       |       | Tamper-Resistant                                   |       |       |
| AC Horsepower Ratings        |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| At Rated Voltage             | Amp                                                                                                                       | 120 V | 240 V | Amp                                                | 120 V | 240 V | Amp                                                | 120 V | 240 V | Amp                                                | 120 V | 240 V | Amp                                                | 120 V | 240 V |
|                              | 15                                                                                                                        | 1 hp  | 2 hp  | 15                                                 | 1 hp  | 2 hp  | 15                                                 | 1 hp  | 2 hp  | 15                                                 | 1 hp  | 2 hp  | 15                                                 | 1 hp  | 2 hp  |
|                              | 20                                                                                                                        | 1½ hp | 2 hp  | 20                                                 | 1½ hp | 2 hp  | 20                                                 | 1½ hp | 2 hp  | 20                                                 | 1½ hp | 2 hp  | 20                                                 | 1½ hp | 2 hp  |
|                              | 30                                                                                                                        | 2 hp  | 2 hp  | 30                                                 | 2 hp  | 2 hp  | 30                                                 | 2 hp  | 2 hp  | 30                                                 | 2 hp  | 2 hp  | 30                                                 | 2 hp  | 2 hp  |
| Material Specifications      |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| Strap                        | Galvanized Steel                                                                                                          |       |       | Galvanized Steel                                   |       |       | Galvanized Steel                                   |       |       | Nickel-Plated Steel                                |       |       | Nickel-Plated Steel                                |       |       |
| Base                         | PBT                                                                                                                       |       |       | PBT                                                |       |       | PBT                                                |       |       | Modified PET                                       |       |       | Modified PET                                       |       |       |
| Cover                        | Nylon                                                                                                                     |       |       | Nylon                                              |       |       | Nylon                                              |       |       | Modified PET                                       |       |       | Modified PET                                       |       |       |
| Contacts                     | Silver Alloy                                                                                                              |       |       | Silver Alloy                                       |       |       | Silver Alloy                                       |       |       | Silver Alloy                                       |       |       | Silver Alloy                                       |       |       |
| Terminal Screws              | Brass                                                                                                                     |       |       | Brass                                              |       |       | Brass                                              |       |       | Brass                                              |       |       | Brass                                              |       |       |
| Grounding Screw              | Plated Steel                                                                                                              |       |       | Plated Steel                                       |       |       | Plated Steel                                       |       |       | Plated Steel                                       |       |       | Plated Steel                                       |       |       |
| Ground Clip                  | Brass                                                                                                                     |       |       | Brass                                              |       |       | Brass                                              |       |       | —                                                  |       |       | —                                                  |       |       |
| Toggle                       | Polycarbonate<br>(Pertains to all except<br>Antimicrobial Switches)<br><br>Antimicrobial Urea<br>(Antimicrobial Switches) |       |       | —                                                  |       |       | Polycarbonate                                      |       |       | Polycarbonate                                      |       |       | —                                                  |       |       |
| Dome                         | —                                                                                                                         |       |       | Nylon                                              |       |       | —                                                  |       |       | —                                                  |       |       | Nylon                                              |       |       |
| Electrical Specifications    |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| Voltage                      | 120/277 V AC                                                                                                              |       |       | 120/277 V AC                                       |       |       | 120/277 V AC1                                      |       |       | 120/277 V AC                                       |       |       | 120/277 V AC                                       |       |       |
| Amperage                     | Available in 15 A, 20 A and 30 A, as specified                                                                            |       |       | Available in 15 A, 20 A and 30 A, as specified     |       |       | Available in 15 A, 20 A and 30 A, as specified     |       |       | Available in 15 A, 20 A and 30 A, as specified     |       |       | Available in 15 A, 20 A and 30 A, as specified     |       |       |
| Dielectric Voltage           | Withstands 1500 V for 1 minute                                                                                            |       |       | Withstands 1500 V for 1 minute                     |       |       | Withstands 1500 V for 1 minute                     |       |       | Withstands 1500 V for 1 minute                     |       |       | Withstands 1500 V for 1 minute                     |       |       |
| Overload (UL 20)             | 100 cycles of OL at 4.8 times rated current                                                                               |       |       | 100 cycles of OL at 4.8 times rated current        |       |       | 100 cycles of OL at 4.8 times rated current        |       |       | 100 cycles of OL at 4.8 times rated current        |       |       | 100 cycles of OL at 4.8 times rated current        |       |       |
| Temperature Rise             | Maximum 30 °C rise                                                                                                        |       |       | Maximum 30 °C rise                                 |       |       | Maximum 30 °C rise                                 |       |       | Maximum 30 °C rise                                 |       |       | Maximum 30 °C rise                                 |       |       |
| Endurance                    | 50,000 cycles min.                                                                                                        |       |       | 50,000 cycles min.                                 |       |       | 50,000 cycles min.                                 |       |       | 50,000 cycles min.                                 |       |       | 50,000 cycles min.                                 |       |       |
| Environmental Specifications |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| Flammability                 | Rated V-2 per UL94                                                                                                        |       |       | Rated V-2 per UL94                                 |       |       | Rated V-2 per UL94                                 |       |       | Rated V-2 per UL94                                 |       |       | Rated V-2 per UL94                                 |       |       |
| Operating Temperature        | -40 °C to 65 °C                                                                                                           |       |       | -40 °C to 65 °C                                    |       |       | -40 °C to 65 °C                                    |       |       | -40 °C to 65 °C                                    |       |       | -40 °C to 65 °C                                    |       |       |
| Mechanical Specifications    |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| Terminal Accommodation       | 14-#10 AWG back-wired; #14-#12 AWG side-wired                                                                             |       |       | 14-#10 AWG back-wired; #14-#12 AWG side-wired      |       |       | 14-#10 AWG back-wired; #14-#12 AWG side-wired      |       |       | 14-#10 AWG back-wired; #14-#12 AWG side-wired      |       |       | 14-#10 AWG back-wired; #14-#12 AWG side-wired      |       |       |
| Terminal Screw Torque        | 12 to 14 inch pounds                                                                                                      |       |       | 12 to 14 inch pounds                               |       |       | 12 to 14 inch pounds                               |       |       | 12 to 14 inch pounds                               |       |       | 12 to 14 inch pounds                               |       |       |
| Terminal ID                  | Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral                                                                        |       |       | Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral |       |       | Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral |       |       | Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral |       |       | Brass-Hot, Black-Hot, Green-Ground, Silver-Neutral |       |       |
| Prodcut ID                   | Ratings permanently marked on device                                                                                      |       |       | Ratings permanently marked on device               |       |       | Ratings permanently marked on device               |       |       | Ratings permanently marked on device               |       |       | Ratings permanently marked on device               |       |       |
| Standards and Certifications |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| NEMA                         | WD 1 & WD 6                                                                                                               |       |       | WD 1 & WD 6                                        |       |       | WD 1 & WD 6                                        |       |       | WD 1 & WD 6                                        |       |       | WD 1 & WD 6                                        |       |       |
| UL Fed Spec                  | W-S-896                                                                                                                   |       |       | W-S-896                                            |       |       | W-S-896                                            |       |       | W-S-896                                            |       |       | W-S-896                                            |       |       |
| UL Standard                  | UL 20                                                                                                                     |       |       | UL 20                                              |       |       | UL 20                                              |       |       | UL 20                                              |       |       | UL 20                                              |       |       |
| NOM                          | NOM-ANCE                                                                                                                  |       |       | NOM-ANCE                                           |       |       | NOM-ANCE                                           |       |       | NOM-ANCE                                           |       |       | NOM-ANCE                                           |       |       |
| CSA                          | C22.2 No.111                                                                                                              |       |       | C22.2 No.111                                       |       |       | C22.2 No.111                                       |       |       | C22.2 No.111                                       |       |       | C22.2 No.111                                       |       |       |
| Warranty                     |                                                                                                                           |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |                                                    |       |       |
| Product Warranty             | 10-year Limited                                                                                                           |       |       | 10-year Limited                                    |       |       | 10-year Limited                                    |       |       | 10-year Limited                                    |       |       | 10-year Limited                                    |       |       |

## Dimensional Diagrams

### Typical for Extra Heavy Duty Toggle Switches

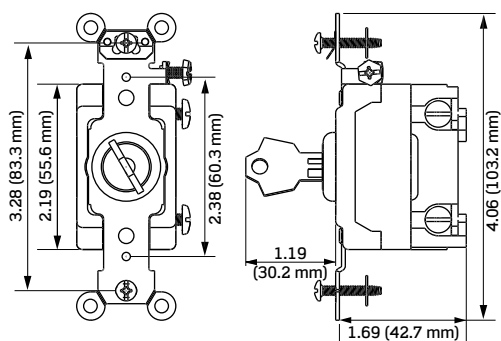


### Lev-Lok Modular Toggle Switches

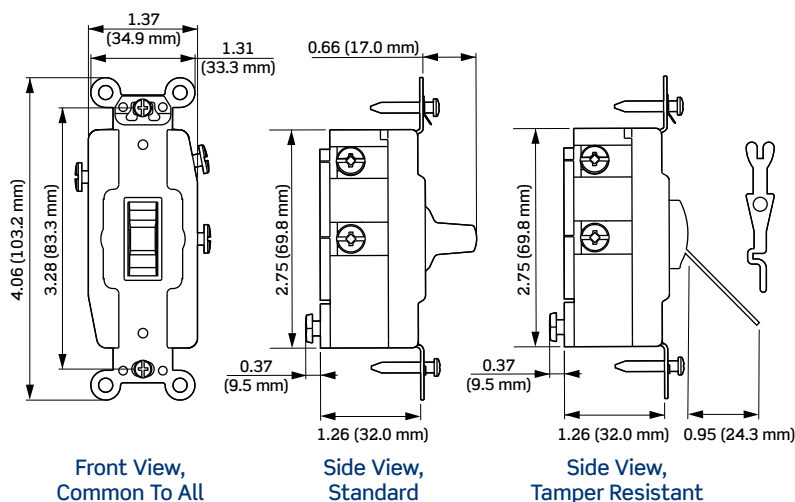


## Dimensional Diagrams

### Key Locking Toggle Switches

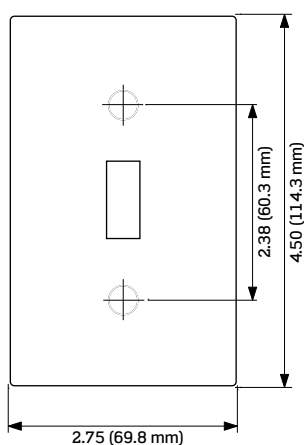


### Maintained & Momentary Contact Toggle Switches

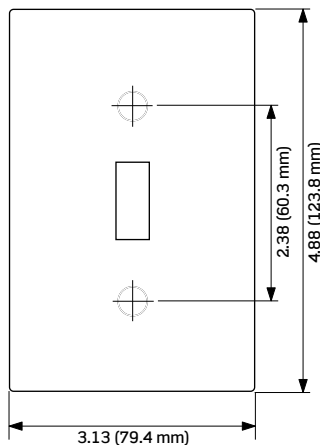


### Standard Wallplates

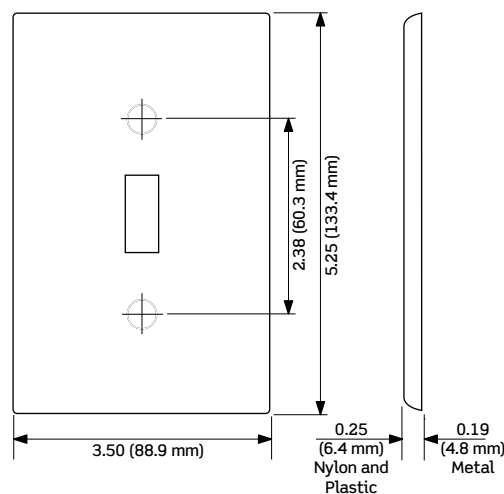
NOTE: Add 1.81" (46.0mm) to width for each additional gang



Standard &  
Antimicrobial



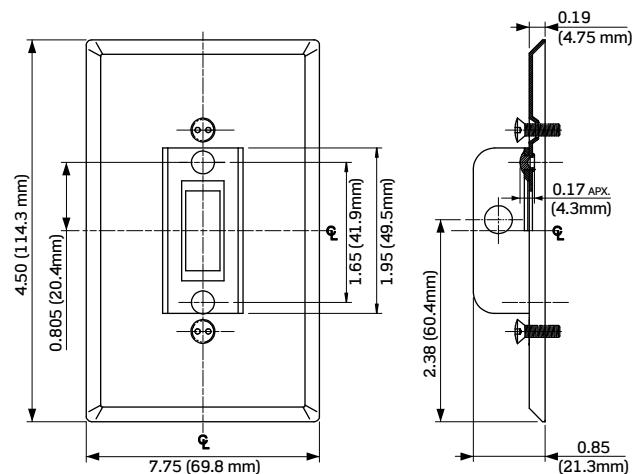
Midway



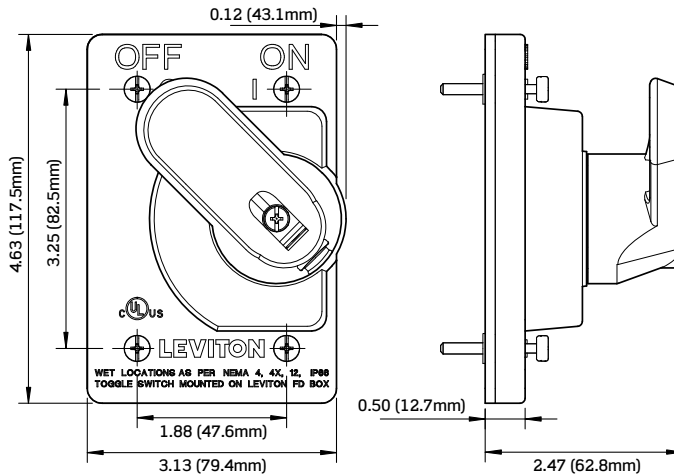
Oversized

Depth,  
Consistent For All

### Lockout Wallplate

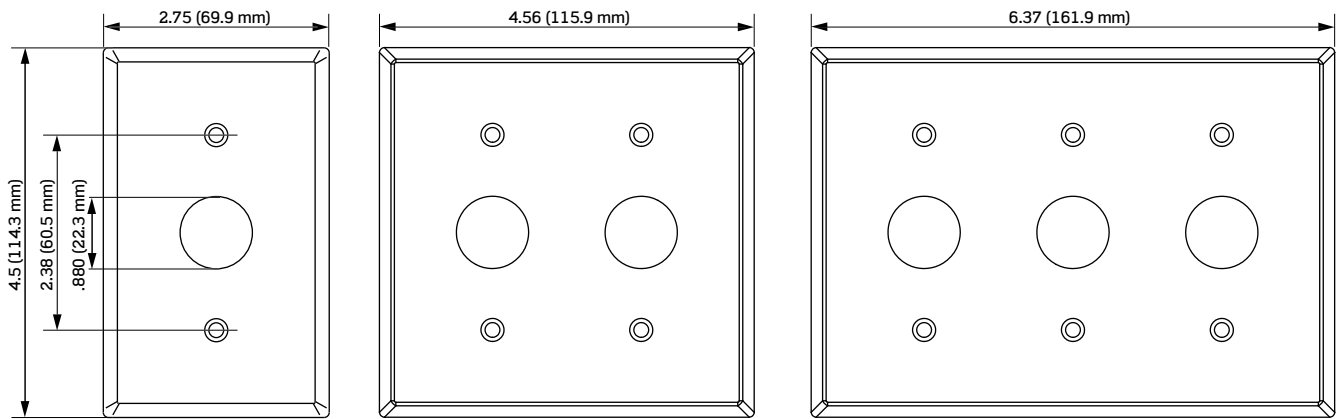


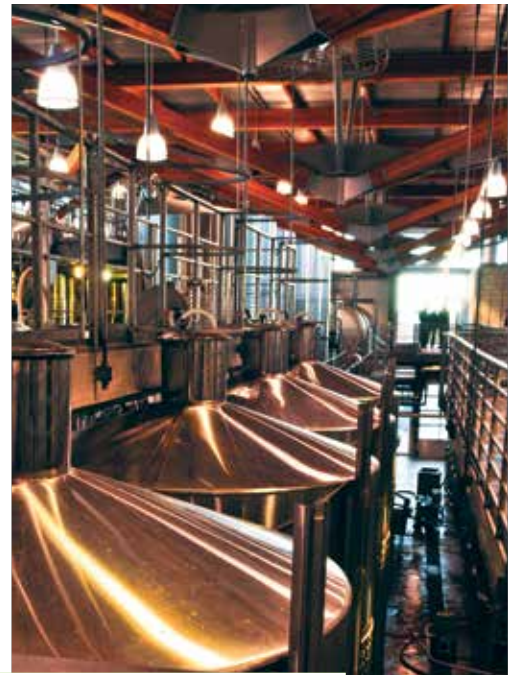
### Wetguard® Watertight Toggle Switch Cover



# Dimensional Diagrams

## Key Locking Toggle Wallplates





## Section 2

# Manual Motor Controllers

## powerswitch® manual motor controllers

The Powerswitch® line of industrial grade AC Manual Motor Controllers provide safe, reliable control of a variety of motor loads. Suitable for use as motor disconnect\*, these switches are available for both single-phase and three-phase applications, with a continuous current rating at voltages up to 600 V AC and maximum horsepower ratings of 30 hp. Metallic and non-metallic enclosures are available, including NEMA Type 1, Type 3R, and Type 4X, to suit a wide variety of applications.

### Features and Benefits:

- All molded parts are thermoplastic to resist impact, chemicals, temperature, tracking and arcing
- Cam-driven mechanism enhances fast-make/slow-break
- Silver-alloy contacts for maximum conductivity and service life
- 30 A and 40 A switches feature external clamps for back and side wiring; 60 A switches available in front-wire or back-wire versions
- Insulating barrier between terminals provide isolation between phases
- Nickel-plated brass mounting strap, terminal screw and external clamps for superior strength and corrosion resistance
- Oversized toggle provides positive actuation, even with gloved hand
- Short toggle versions (DSS) available in 30 A and 40 A for when shorter depth is required
- Listed to UL 60947-4-1 (formerly UL 508)
- Backed by a Limited Ten-Year Warranty



MS403-DS



MS603-FW



MS302-DS



MS303-DSS

\* 30 A & 40 A only

## Component Switches

| Switch Type                                          | Rating | Poles       | AC Horsepower Rating (hp) |       |       |       | Toggle Type | Wiring    | Cat No    |
|------------------------------------------------------|--------|-------------|---------------------------|-------|-------|-------|-------------|-----------|-----------|
|                                                      |        |             | 120 V                     | 240 V | 480 V | 600 V |             |           |           |
| Manual Motor Controller Suitable as Motor Disconnect | 30 A   | 2-Pole (1Ø) | 2                         | 5     | 10    | 15    | Standard    | Back/Side | MS302-DS  |
|                                                      |        |             |                           |       |       |       | Short       | Back/Side | MS302-DSS |
|                                                      |        | 3-Pole (3Ø) | 3                         | 7½    | 15    | 20    | Standard    | Back/Side | MS303-DS  |
|                                                      |        |             |                           |       |       |       | Short       | Back/Side | MS303-DSS |
|                                                      | 40 A   | 2-Pole (1Ø) | 2                         | 5     | 10    | 15    | Standard    | Back/Side | MS402-DS  |
|                                                      |        | 3-Pole (3Ø) | 3                         | 7½    | 15    | 20    | Standard    | Back/Side | MS403-DS  |
| Manual Motor Controller                              | 60 A   | 2-Pole (1Ø) | —                         | 10    | 15    | 20    | Standard    | Back      | MS602-BW  |
|                                                      |        |             |                           |       |       |       | Standard    | Front     | MS602-FW  |
|                                                      |        | 3-Pole (3Ø) | —                         | 10    | 25    | 30    | Standard    | Back      | MS603-BW  |
|                                                      |        |             |                           |       |       |       | Standard    | Front     | MS603-FW  |

## Enclosed Switches

| Switch Type                                          | Rating | Poles       | AC Horsepower Rating (hp) |       |       |       | Toggle Type | Enclosure            | Cat No    |
|------------------------------------------------------|--------|-------------|---------------------------|-------|-------|-------|-------------|----------------------|-----------|
|                                                      |        |             | 120 V                     | 240 V | 480 V | 600 V |             |                      |           |
| Manual Motor Controller Suitable as Motor Disconnect | 30 A   | 2-Pole (1Ø) | 2                         | 5     | 10    | 15    | Standard    | Type 1 Metal         | N1302-DS  |
|                                                      |        |             |                           |       |       |       | Pistol Grip | Type 3R Metal        | N3302-DS  |
|                                                      |        |             |                           |       |       |       | Pistol Grip | Type 4X Non-Metallic | MS4X-302* |
|                                                      |        | 3-Pole (3Ø) | 3                         | 7½    | 15    | 20    | Standard    | Type 1 Metal         | N1303-DS  |
|                                                      |        |             |                           |       |       |       | Standard    | Type 1 Non-Metallic  | N1303-TDS |
|                                                      |        |             |                           |       |       |       | Pistol Grip | Type 3R Metal        | N3303-DS  |
|                                                      | 40 A   | 2-Pole (1Ø) | 2                         | 5     | 10    | 15    | Pistol Grip | Type 4X Non-Metallic | MS4X-402* |
|                                                      |        | 3-Pole (3Ø) | 3                         | 7½    | 15    | 20    | Pistol Grip | Type 4X Non-Metallic | MS4X-403* |
| Manual Motor Controller                              | 60 A   | 2-Pole (1Ø) | —                         | 10    | 15    | 20    | Pistol Grip | Type 3R Metal        | N3602     |
|                                                      |        | 3-Pole (3Ø) | —                         | 10    | 25    | 30    | Pistol Grip | Type 3R Metal        | N3603     |

Accessories and replacement parts listed on page 43.



\* MS4X Series Disconnects are NSF Certified

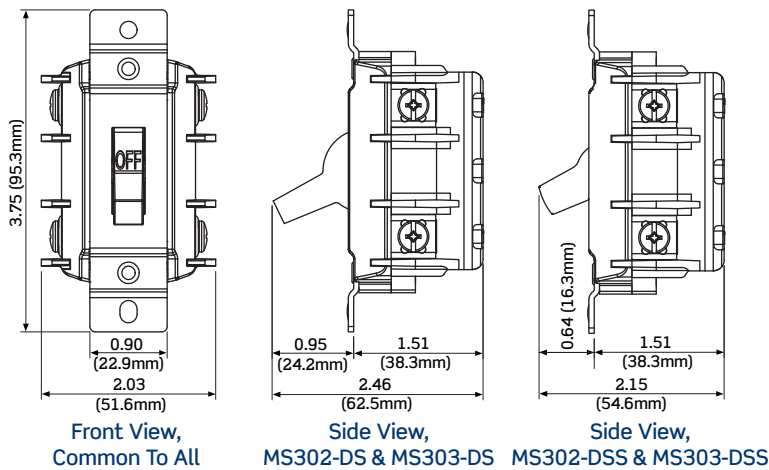


## Specifications

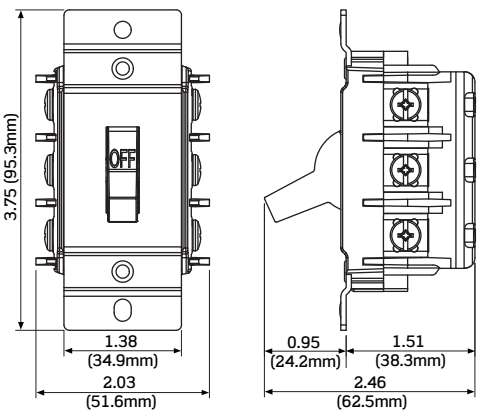
| Catalog Number                      | MS302/MS303                                                                         | MS402/MS403                                                                         | MS602/MS603                                                      |
|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Material Specifications</b>      |                                                                                     |                                                                                     |                                                                  |
| Strap                               | Nickel-Plated Brass                                                                 | Nickel-Plated Brass                                                                 | Nickel-Plated Brass                                              |
| Base                                | PBT Polyester                                                                       | PBT Polyester                                                                       | PBT Polyester                                                    |
| Cover                               | PBT Polyester                                                                       | PBT Polyester                                                                       | PBT Polyester                                                    |
| Contacts                            | Silver Alloy                                                                        | Silver Alloy                                                                        | Silver Alloy                                                     |
| Terminal Screws                     | Nickel-Plated Brass                                                                 | Nickel-Plated Brass                                                                 | Nickel-Plated Brass                                              |
| Toggle                              | PBT Polyester                                                                       | PBT Polyester                                                                       | PBT Polyester                                                    |
| <b>Electrical Specifications</b>    |                                                                                     |                                                                                     |                                                                  |
| Rating                              | 30 A - 600 V AC                                                                     | 40 A - 600 V AC                                                                     | 60 A - 600 V AC                                                  |
| Dielectric Voltage                  | 2200 V for 1 minute                                                                 | 2200 V for 1 minute                                                                 | 2200V for 1 minute                                               |
| Overload                            | 50 cycles of OL at 6 times FLA (full-load motor-running current)                    | 50 cycles of OL at 6 times FLA (full-load motor-running current)                    | 50 cycles of OL at 6 times FLA (full-load motor-running current) |
| Temperature Rise                    | Maximum 50 °C rise                                                                  | Maximum 50 °C rise                                                                  | Maximum 50 °C rise                                               |
| Endurance                           | 6000 cycles of inductive motor type load                                            | 6000 cycles of inductive motor type load                                            | 6000 cycles of inductive motor type load                         |
| Short Circuit Current Rating (SCCR) | 10,000 RMS symmetrical amps, 600 V AC max. when protected by a 30 A time delay fuse | 10,000 RMS symmetrical amps, 600 V AC max. when protected by a 30 A time delay fuse | 5,000 RMS symmetrical amps, 600 V AC max.                        |
| <b>Environmental Specifications</b> |                                                                                     |                                                                                     |                                                                  |
| Flammability                        | Rated V-0 per UL94                                                                  | Rated V-0 per UL94                                                                  | Rated V-0 per UL94                                               |
| Operating Temperature               | -40 °C to 60 °C                                                                     | -40 °C to 60 °C                                                                     | -40 °C to 60 °C                                                  |
| <b>Mechanical Specifications</b>    |                                                                                     |                                                                                     |                                                                  |
| Terminal Accommodation              | #10 AWG; #8 AWG with ring terminal                                                  | #10 AWG; #8 AWG with ring terminal                                                  | #10 - #4 AWG                                                     |
| Terminal Screw Torque               | 20 inch pounds                                                                      | 20 inch pounds                                                                      | 25 inch pounds                                                   |
| Terminal ID                         | T1, T2, T3, L1, L2, L3 marked on device                                             | T1, T2, T3, L1, L2, L3 marked on device                                             | T1, T2, T3, L1, L2, L3 marked on device                          |
| Product ID                          | Ratings permanently marked on device                                                | Ratings permanently marked on device                                                | Ratings permanently marked on device                             |
| <b>Standards and Certifications</b> |                                                                                     |                                                                                     |                                                                  |
| NEMA                                | WD1 & WD6                                                                           | WD1 & WD6                                                                           | WD1 & WD6                                                        |
| UL Standard                         | cULus Listed to UL 60947-4-1 (supersedes UL 508)                                    | cULus Listed to UL 60947-4-1 (supersedes UL 508)                                    | cULus Listed to UL 60947-4-1 (supersedes UL 508)                 |
| NOM                                 | NOM-ANCE                                                                            | NOM-ANCE                                                                            | NOM-ANCE                                                         |
| <b>Warranty</b>                     |                                                                                     |                                                                                     |                                                                  |
| Product Warranty                    | 10-year Limited                                                                     | 10-year Limited                                                                     | 10-year Limited                                                  |

# Dimensional Diagrams

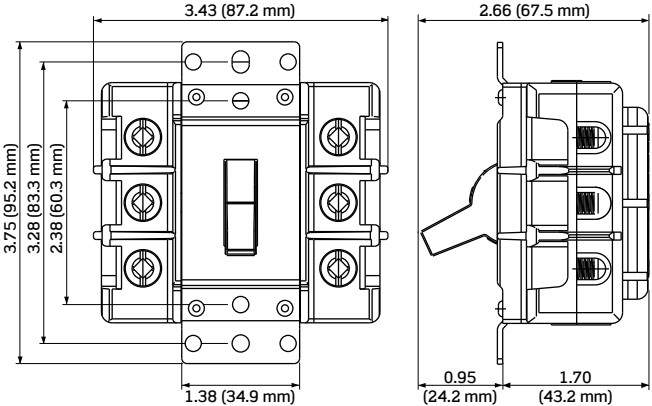
Typical for MS403-DS, MS402-DS, MS302-DSS & MS303-DSS



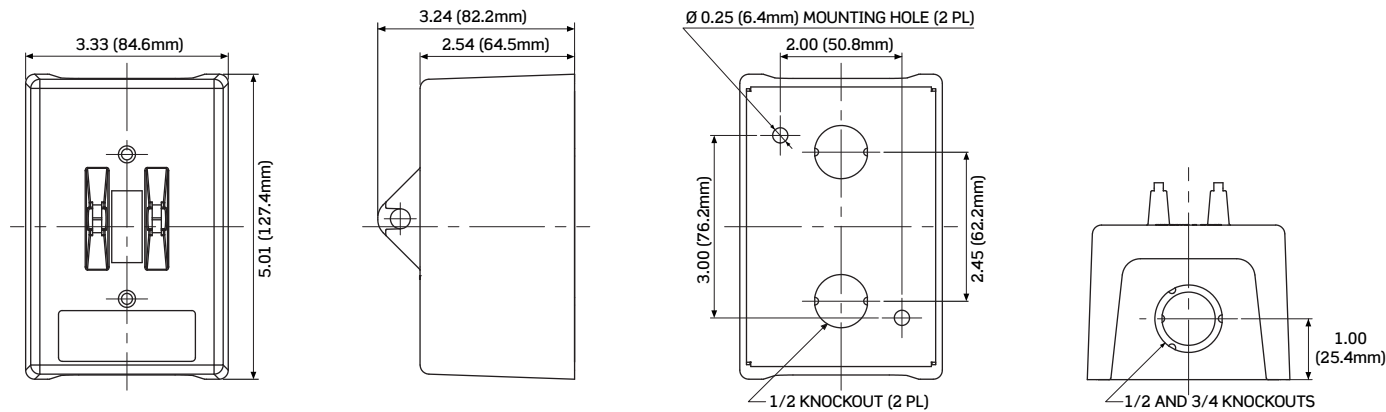
Typical for MS403-DS & MS402-DS



Typical for MS602-BW, MS603-BW, MS602-FW & MS603-FW

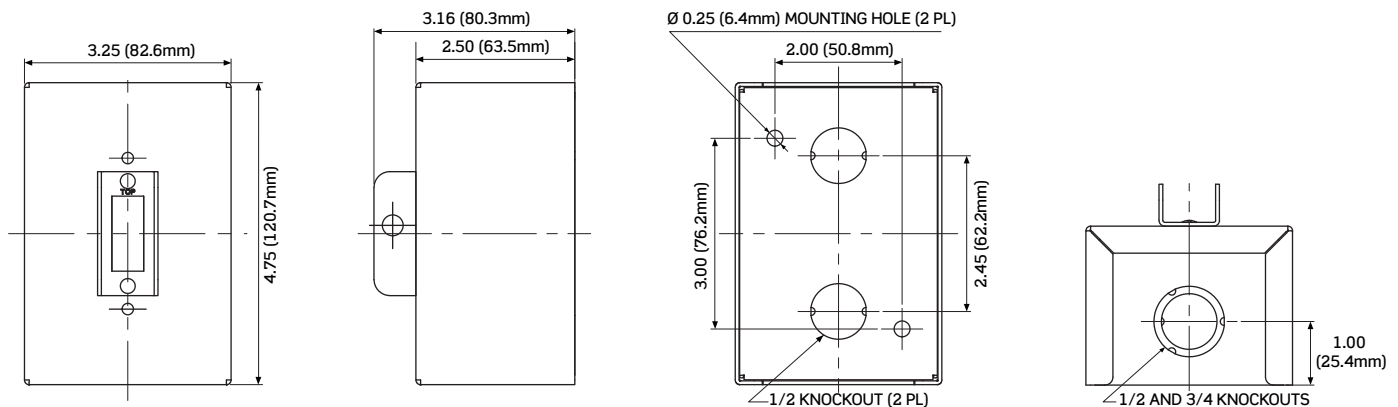


Typical for N1303-TDS & N13NC-TDS

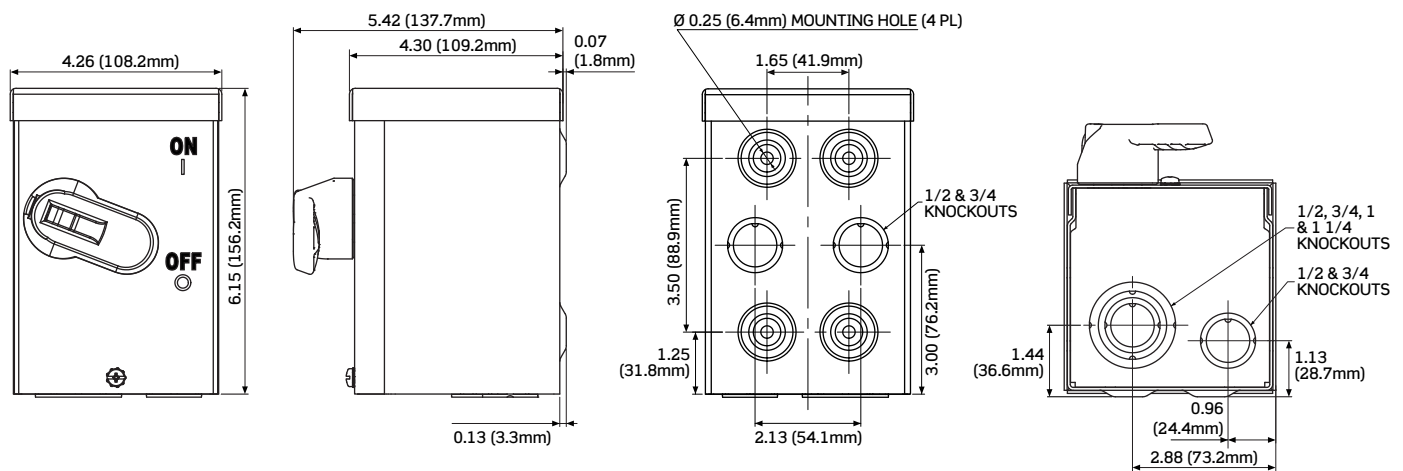


## Dimensional Diagrams

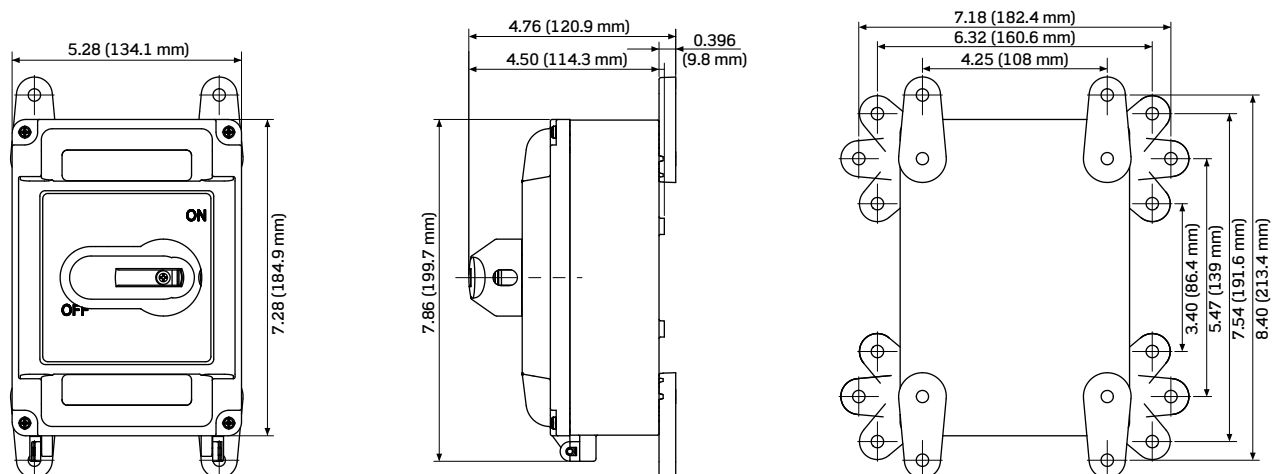
Typical for N1302-DS, N1303-DS & N13NC-DS



Typical for N3302-DS, N3303-DS & N33NC-DS



Typical for MS4X-302, MS4X-303, MS4X-402 & MS4X-403





## Section 3

# Safety Disconnect Switches

# Enclosed 30 A Non-Fused Safety Disconnect Switches

## powerswitch® safety disconnect switches

Powerswitch 30 Amp, Non-Fused Safety Disconnect Switches from Leviton are designed for superior performance in food and beverage processing facilities, factories and plants, marinas and shipyards, and are especially ideal for areas requiring heavy washdown and with corrosive elements. Heavy duty enclosed safety disconnect switches cut power to the circuit for equipment servicing and are designed to withstand higher short circuit currents than manual motor controllers. The design of the 30 A disconnect switches has been certified as easily cleanable, corrosion-resistant and fit for use in food processing facilities by NSF International.

### Features & Benefits:

- Watertight and dust-tight rated to IP66 and IP67 and NEMA Type 3R, 4X and 12K Standards
- Pistol-grip styled handle is easy to operate and provides OSHA compliant lockout/tagout capabilities
- Includes one factory-installed auxiliary contact (NO – 10A); a second can be added (NO or NC)
  - ideal for use with Variable Frequency Drives (VFDs)
- High visibility circuit ID label provides ample room to record circuit identification information
- Handle, switch and auxiliary contacts are easily replaceable



These Safety Disconnect Switches are certified to NSF International hygiene requirements for food & beverage processing to help ensure public health and safety. Manufacturers, regulators and consumers look to NSF International for the development of public health standards and certification programs that help protect the world's food, water, consumer products and environment.

### Safety Disconnect Switches

| Amp  | AC Horsepower Rating (hp) |                 |          |          |                 |          |          | Cat No   | Description                          |
|------|---------------------------|-----------------|----------|----------|-----------------|----------|----------|----------|--------------------------------------|
|      | SINGLE PHASE              |                 |          |          | THREE PHASE     |          |          |          |                                      |
|      | 110 V AC                  | 208 to 240 V AC | 480 V AC | 600 V AC | 208 to 240 V AC | 480 V AC | 600 V AC |          |                                      |
| 30 A | 2                         | 5               | 10       | —        | 10              | 20       | 25       | DS30-AX  | Non-Fused, Non-metallic Enclosure    |
|      | 2                         | 5               | 10       | —        | 10              | 20       | 25       | MDS30-AX | Non-Fused, Stainless Steel Enclosure |

Accessories and replacement parts listed on page 43.



DS30-AX



#### Non-metallic enclosure features:

- Impact-resistant PBT, also resistant to water, harsh chemicals and UV exposure resulting in extended service life
- Exclusive bottom-hinged cover that provides unfettered access without the need for removal
- Captive cover hardware will not fall out when cover is open
- Mounting feet provide 3/8" clearance from the mounting surface to conform to NEC Article 300.6
- Seven shallow dimples to simplify drilling for conduit entry



MDS30-AX

#### Stainless steel enclosure features:

- 16 gauge Type 304 non-magnetic stainless steel offers greater corrosion resistance
- Exclusive side-hinged removable door makes installation and servicing quick and easy
- Mounting feet are welded on and provide 3/4" clearance from the mounting surface – the most room in the industry to allow for complete sanitizing washdown and visual inspection once installed
- Handle with three provisions for padlocks for OSHA compliance
- 10 extra-shallow dimple locations simplify drilling for conduit entry

## powerswitch® safety disconnect switches

Powerswitch Safety Disconnect Switches are the ideal choice for industrial environments with particulate laden air, outdoor exposure and washdown requirements. Built to withstand the rigors of these harsh environments without being vulnerable to failure, these devices address the needs of safety, reduced downtime and code compliance.

### Features and Benefits:

- Available in fused and non-fused configurations up to 100 A
- Fused models accept "Class J" fuses (not included)
- EDSR-23 includes integral receptacle bracket; accepts 20 A and 30 A single locking receptacles



DS60-AX



DS100-AX



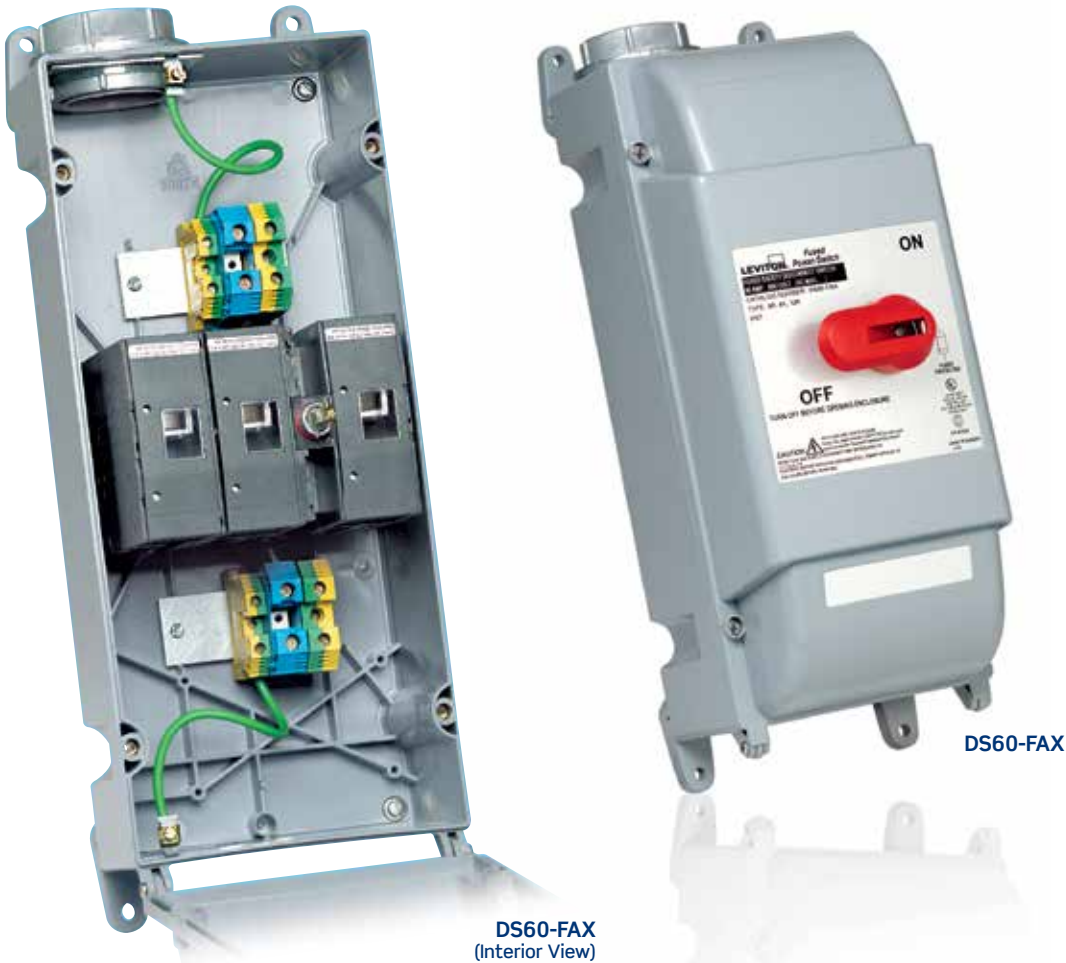
EDSR-23

# Safety Disconnect Switches

| Amp         | AC Horsepower Rating (hp)     |                 |          |          |                 |          |          | Cat No   | Description                                                                                                                      |
|-------------|-------------------------------|-----------------|----------|----------|-----------------|----------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------|
|             | SINGLE PHASE                  |                 |          |          | THREE PHASE     |          |          |          |                                                                                                                                  |
|             | 110 V AC                      | 208 to 240 V AC | 480 V AC | 600 V AC | 208 to 240 V AC | 480 V AC | 600 V AC |          |                                                                                                                                  |
| 30 A        | 2                             | 3               | 7½       | —        | 7½              | 15       | 20       | DS30-FAX | Fused, Non-metallic Enclosure                                                                                                    |
| 60 A        | 2                             | 10              | 20       | 20       | 20              | 40       | 40       | DS60-AX  | Non-Fused, Non-metallic Enclosure                                                                                                |
|             | *                             | *               | N/R      | *        | 15              | 30       | 50       | DS60-FAX | Fused, Non-metallic Enclosure                                                                                                    |
| 100 A       | 5                             | 15              | 25       | 20       | 25*             | 50       | 50       | DS100-AX | Non-Fused, Non-metallic Enclosure                                                                                                |
| 20 A / 30 A | See ordering table on page 35 |                 |          |          |                 |          |          | EDSR-23  | Non-fused, Non-Metallic Enclosure, with receptacle bracket for use with any 20 A / 30 A locking single receptacle (not included) |

\* Consult Factory  
 \* 30(240 V AC)

▶ Accessories and replacement parts listed on page 43.



## Specifications

| Catalog Number                      | DS30-AX, DS60-FAX                                                                            | MDS30-AX                                                                                     |
|-------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Electrical Specifications           |                                                                                              |                                                                                              |
| Amperage                            | 30 A                                                                                         | 30 A                                                                                         |
| Voltage                             | 600 V                                                                                        | 600 V                                                                                        |
| Current Interrupting                | Certified for full-rated current and voltage                                                 | Certified for full-rated current and voltage                                                 |
| Dielectric Voltage                  | 1000 V plus twice rated voltage for 1 minute                                                 | 1000 V plus twice rated voltage for 1 minute                                                 |
| Endurance                           | 6000 operations at rated current and voltage (Power factor 0.75 to 0.80)                     | 6000 operations at rated current and voltage (Power factor 0.75 to 0.80)                     |
| Short Circuit Current Rating (SCCR) | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps |
| Environmental Specifications        |                                                                                              |                                                                                              |
| Flammability                        | Rated V-2 or better per UL94; V-0 for watertight enclosure                                   | Rated V-2 or better per UL94; V-0 for watertight enclosure                                   |
| Operating Temperature               | -40 °C to 60 °C                                                                              | -40 °C to 60 °C                                                                              |
| UV Resistance                       | Exposed materials are UV stabilized                                                          | Exposed materials are UV stabilized                                                          |
| Material Specifications             |                                                                                              |                                                                                              |
| Enclosure                           | PBT                                                                                          | 16 Gauge Type 304 Stainless Steel                                                            |
| Handle                              | PBT                                                                                          | Polycarbonate                                                                                |
| Enclosure Screws                    | Stainless Steel                                                                              | Stainless Steel                                                                              |
| Enclosure Gasket                    | Silicone Foam                                                                                | Silicone Foam                                                                                |
| Mounting Feet                       | PBT                                                                                          | 12 Gauge Type 304 Stainless Steel                                                            |
| Mechanical Specifications           |                                                                                              |                                                                                              |
| Terminal Identification             | In accordance with UL and international conventions                                          |                                                                                              |
| Product Identification              | Ratings are permanently marked on device                                                     |                                                                                              |
| Terminal Accommodation              | #14-#8 AWG                                                                                   |                                                                                              |
| Impact Resistance                   | Non-metallic: In accordance with UL 746C                                                     |                                                                                              |
| Standards & Certifications          |                                                                                              |                                                                                              |
| NSF                                 | 14159-1 Meat & Poultry Processing Equipment                                                  |                                                                                              |
| NEMA                                | WD 1 & WD 6                                                                                  |                                                                                              |
| UL Standard                         | Listed to UL 60947-4-1 (supersedes UL 508)                                                   |                                                                                              |
| NOM                                 | NOM-ANCE                                                                                     |                                                                                              |
| IEC                                 | 947-3                                                                                        |                                                                                              |
| Warranty                            |                                                                                              |                                                                                              |
| Product Warranty                    | 2- Year Limited                                                                              |                                                                                              |

## Specifications

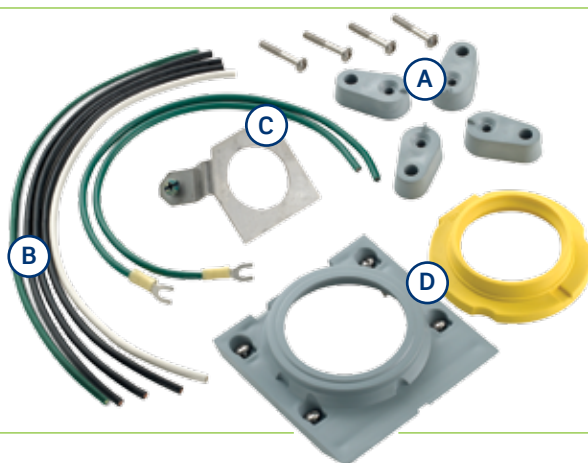
| Catalog Number                      | DS60                                                                                         | DS100                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Electrical Specifications           |                                                                                              |                                                                                              |
| Amperage                            | 60 A                                                                                         | 100 A                                                                                        |
| Voltage                             | Up to 600 V AC                                                                               | Up to 600 V AC                                                                               |
| Current Interrupting                | Certified for full-rated current and voltage                                                 | Certified for full-rated current and voltage                                                 |
| Dielectric Voltage                  | 1000 V plus twice rated voltage for 1 minute                                                 | 1000 V plus twice rated voltage for 1 minute                                                 |
| Endurance                           | 6000 operations at rated current and voltage<br>(Power factor 0.75 to 0.80)                  | 6000 operations at rated current and voltage<br>(Power factor 0.75 to 0.80)                  |
| Short Circuit Current Rating (SCCR) | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps |
| Environmental Specifications        |                                                                                              |                                                                                              |
| Flammability                        | V-2 per UL 94                                                                                | V-2 per UL 94                                                                                |
| Operating Temperature               | -40 °C to 60 °C                                                                              | -40 °C to 60 °C                                                                              |
| UV Resistance                       | Exposed plastic materials are UV stabilized                                                  | Exposed plastic materials are UV stabilized                                                  |
| Material Specifications             |                                                                                              |                                                                                              |
| Enclosure                           | PBT                                                                                          |                                                                                              |
| Handle                              | PBT                                                                                          |                                                                                              |
| Enclosure Screws                    | Stainless Steel                                                                              |                                                                                              |
| Enclosure Gasket                    | Silicone Foam                                                                                |                                                                                              |
| Mounting Feet                       | PBT                                                                                          |                                                                                              |
| Mechanical Specifications           |                                                                                              |                                                                                              |
| Terminal Identification             | In accordance with UL and international conventions                                          |                                                                                              |
| Product Identification              | Ratings are permanently marked on device                                                     |                                                                                              |
| Terminal Accommodation              | #14-#8 AWG                                                                                   |                                                                                              |
| Impact Resistance                   | In accordance with UL 746C                                                                   |                                                                                              |
| Standards & Certifications          |                                                                                              |                                                                                              |
| NEMA                                | WD 1 & WD 6                                                                                  |                                                                                              |
| UL Standard                         | Listed to UL 60947-4-1 (supersedes UL 508)                                                   |                                                                                              |
| IEC                                 | 947-3                                                                                        |                                                                                              |
| Warranty                            |                                                                                              |                                                                                              |
| Product Warranty                    | 2- Year Limited                                                                              |                                                                                              |

## Specifications

| Catalog Number                        | EDSR-23                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Electrical Specifications</b>      |                                                                                              |
| Amperage                              | Up to 30 A                                                                                   |
| Voltage                               | Up to 600 V AC                                                                               |
| Current Interrupting                  | Certified for full-rated current and voltage                                                 |
| Dielectric Voltage                    | 1000 V plus twice rated voltage for 1 minute                                                 |
| Endurance                             | 6000 operations at rated current and voltage (Power factor 0.75-0.80)                        |
| Short Circuit Current Rating (SCCR)   | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps |
| <b>Environmental Specifications</b>   |                                                                                              |
| Flammability                          | V-2 per UL 94                                                                                |
| Operating Temperature                 | -40 °C to 60 °C                                                                              |
| UV Resistance                         | Exposed plastic materials are UV stabilized                                                  |
| <b>Material Specifications</b>        |                                                                                              |
| Enclosure                             | PBT                                                                                          |
| Handle                                | PBT                                                                                          |
| Enclosure Screws                      | Stainless Steel                                                                              |
| <b>Mechanical Specifications</b>      |                                                                                              |
| Terminal Identification               | In accordance with UL and international conventions                                          |
| Product Identification                | Ratings are permanently marked on device                                                     |
| Terminal Accommodation                | #14-#8 AWG                                                                                   |
| Impact Resistance                     | In accordance with UL 746C                                                                   |
| <b>Standards &amp; Certifications</b> |                                                                                              |
| NEMA                                  | WD 1 & WD 6                                                                                  |
| UL Standard                           | Listed to UL 60947-4-1 (supersedes UL 508)                                                   |
| IEC                                   | 947-3                                                                                        |
| <b>Warranty</b>                       |                                                                                              |
| Product Warranty                      | 2-year Limited                                                                               |

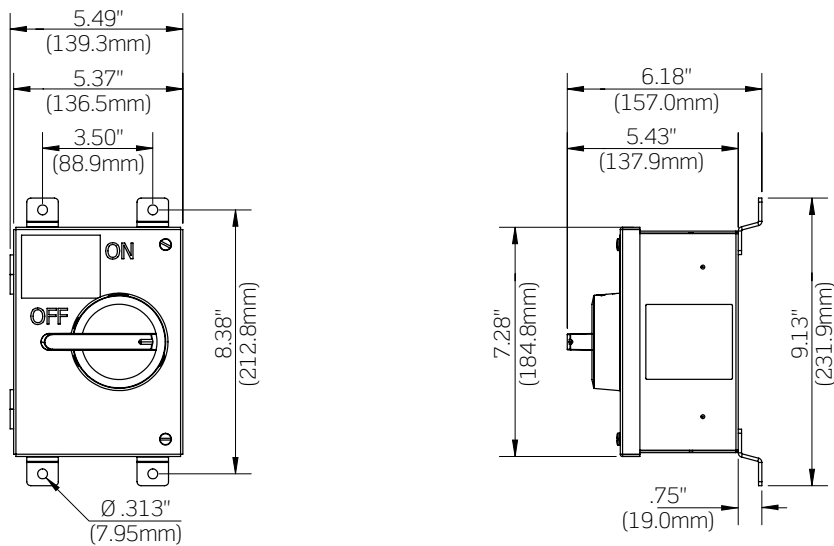
### Every Powerswitch® EDSR-23 Safety Disconnect Switch is supplied with:

- A) 4 gray mounting feet & 4 screws
- B) Extra wire accommodates all receptacle to switch connections (1-white, 1-green, 3-black)
- C) 2 green wires and ground bracket
- D) Wetguard® seal package for use with corrosion resistant receptacles and Wetguard® plugs

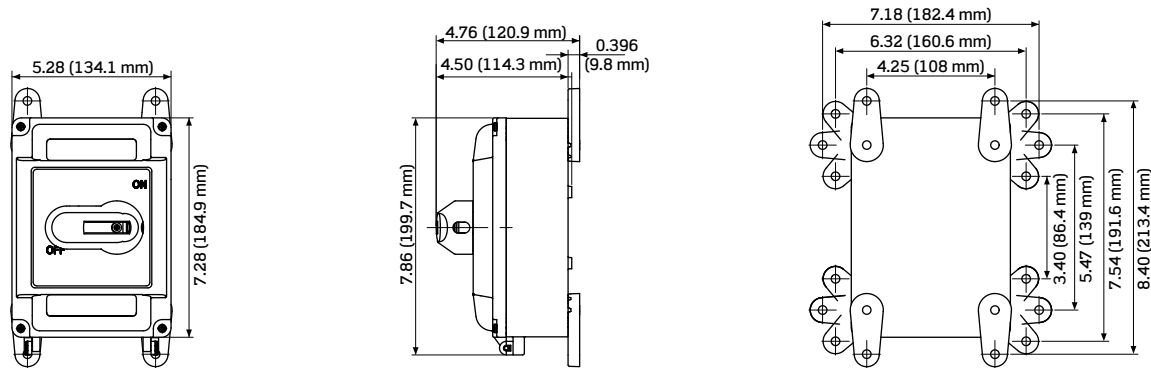


# Dimensional Diagrams

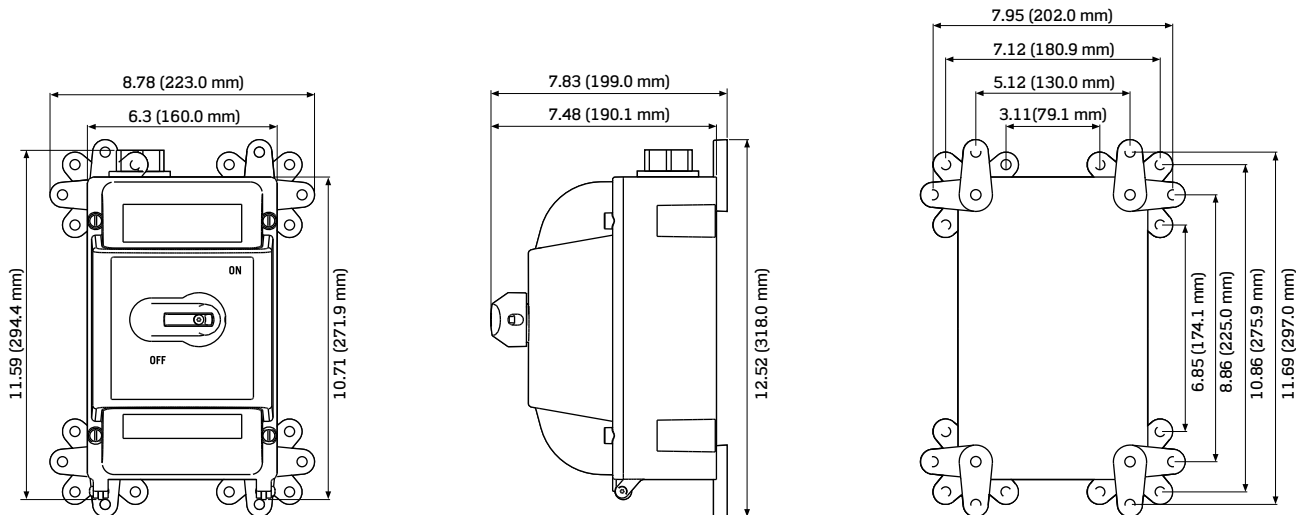
## MDS30-AX



## DS30-AX

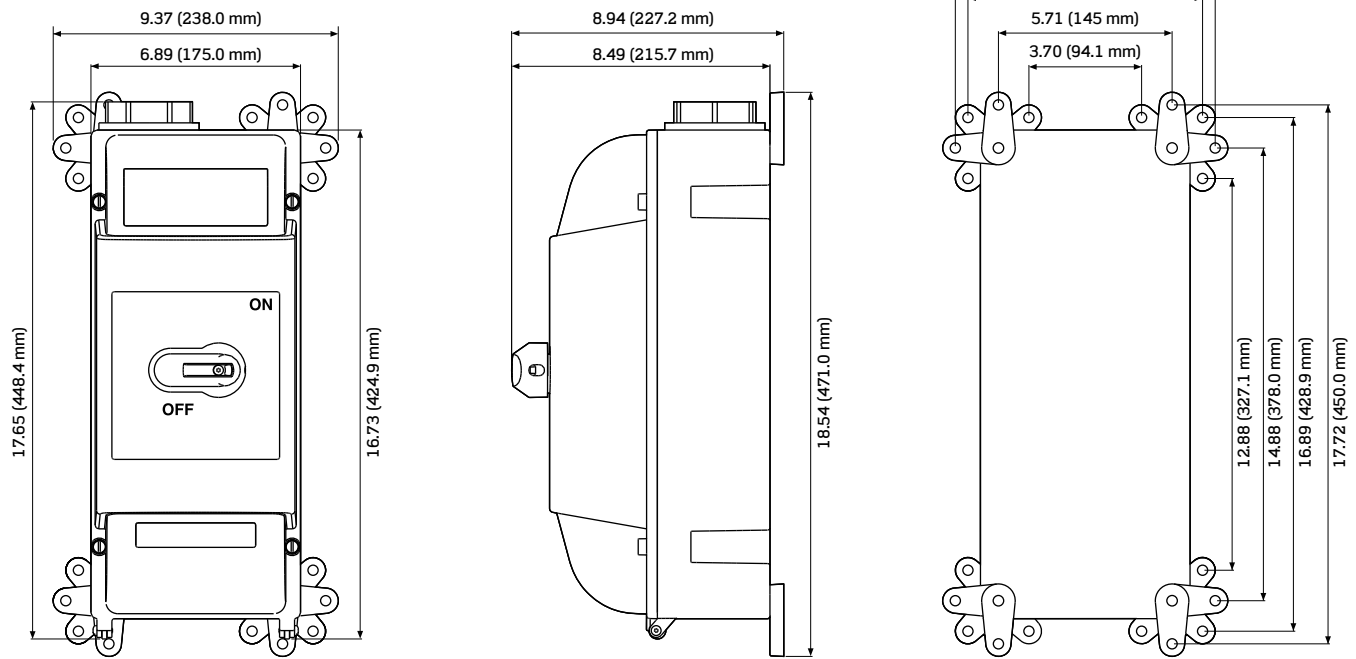


## DS30-FAX & DS60-AX

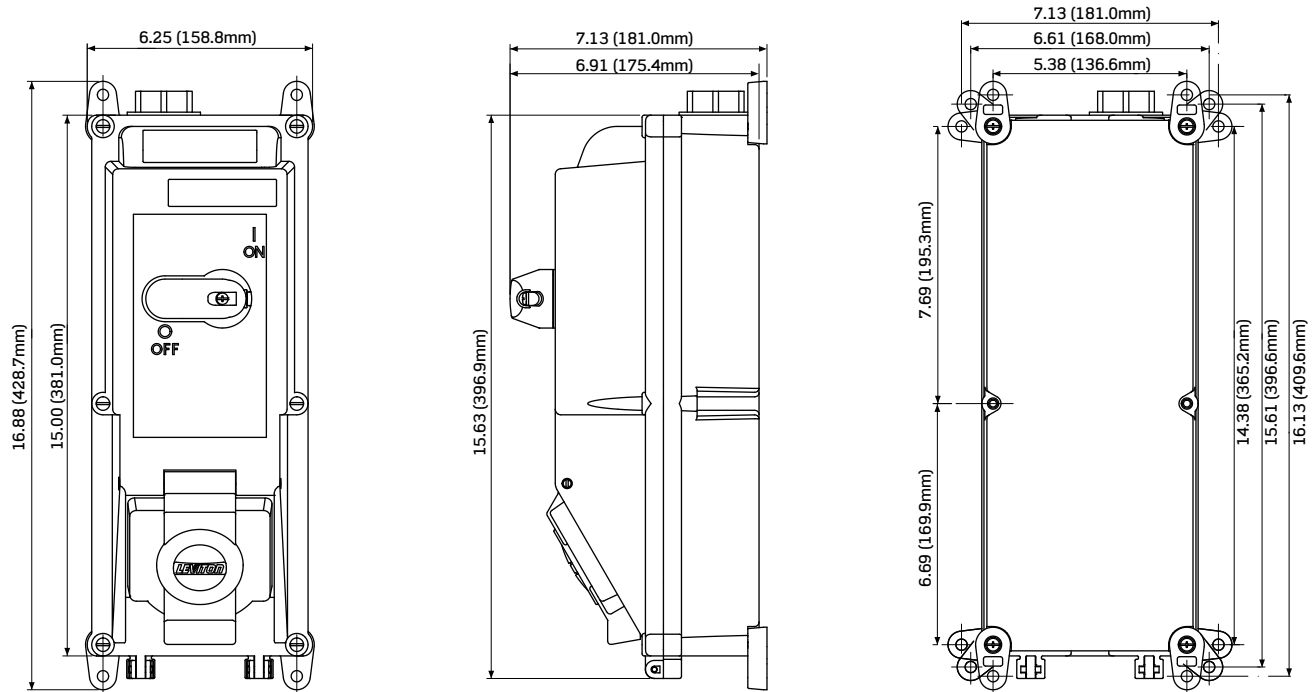


# Dimensional Diagrams

## DS60-FAX & DS100-AX



## EDSR-23





## Section 4

# Mechanical Interlocks

## powerswitch®

### Mechanical Interlocks for use with NEMA configured receptacles

Leviton Powerswitch mechanically interlocked disconnect switch can be used with any 20 A or 30 A NEMA locking receptacle. These mechanical interlock devices are non-metallic, watertight and are engineered to enhance safety and performance for critical power control installations.

#### Features and Benefits:

- Mechanically interlocked design will not allow plug removal unless red handle is in OFF position
- Meet the requirements of outdoor/indoor installations, conforming to IP 66, UL Standard 50 and NEMA environmental ratings of 4X, 12K only when used in conjunction with Leviton Wetguard® plugs
- Meets the requirements of outdoor/indoor installations conforming to IP 54 and NEMA 3R with standard locking NEMA plugs and receptacles with cover closed when not in use
- For use with 20 A - 30 A NEMA locking receptacles up to 600 V (sold separately)
- Provide ON-OFF switched control for a connected load
- Lockout capability in compliance with OSHA Lockout/Tagout Regulation 29 CFR Part 1910.147 (in the OFF position) with an acceptable 1/4" padlock/shackle, thereby assuring the connected equipment cannot be energized
- Auxiliary contact open prior to the line contacts
- Backed by a limited 2-year warranty
- Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amperes
- Certified to UL 231 and UL 686, UL 98 Fused, UL 60947-1 (formerly UL 508) Non-Fused, CSA C22.2 CE



MIDSR



MIDSR  
(Interior View)

## Switched Enclosures for NEMA Receptacles

| Amps | Wiring | Voltage, AC       | NEMA CONFIG | HP Rating      | Receptacle  |        | Plug            |          |
|------|--------|-------------------|-------------|----------------|-------------|--------|-----------------|----------|
|      |        |                   |             |                | Type        | Cat No | Type            | Cat No   |
| 20 A | 2P, 3W | 125               | L5-20       | 1              | V-0-MAX Std | 2310   | Power Indicator | 2311-PLC |
|      |        |                   |             |                | V-0-MAX CR  | 23CM10 | Wetguard        | 26W47    |
|      |        | 250               | L6-20       | 2              | V-0-MAX Std | 2320   | Power Indicator | 2321-PLC |
|      |        |                   |             |                | V-0-MAX CR  | 23CM20 | Wetguard        | 26W48    |
|      |        | 277               | L7-20       | 2              | V-0-MAX Std | 2330   | Power Indicator | 2331-PLC |
|      |        |                   |             |                | V-0-MAX CR  | 23CM30 | Wetguard        | 26W49    |
|      |        | 480               | L8-20       | 3              | V-0-MAX Std | 2340   | Black & White   | 2341     |
|      |        | 600               | L9-20       | NA             | V-0-MAX Std | 2350   | Black & White   | 2351     |
|      | 3P, 4W | 125/250           | L14-20      | 2 L-L<br>1 L-N | V-0-MAX Std | 2410   | Black & White   | 2411     |
|      |        |                   |             |                | V-0-MAX CR  | 24CM10 | Wetguard        | 26W74    |
|      |        | 3Ø250             | L15-20      | 3              | V-0-MAX Std | 2420   | Black & White   | 2421     |
|      |        |                   |             |                | V-0-MAX CR  | 24CM20 | Wetguard        | 26W75    |
|      |        | 3Ø480             | L16-20      | 5              | V-0-MAX Std | 2430   | Black & White   | 2431     |
|      |        |                   |             |                | V-0-MAX CR  | 24CM30 | Wetguard        | 26W76    |
|      | 4P, 5W | 3Ø Wye<br>120/208 | L21-20      | 2              | V-0-MAX Std | 2510   | Black & White   | 2511     |
|      |        |                   |             |                | V-0-MAX Std | 2510   | Wetguard        | 26W81    |
|      |        | 3Ø Wye<br>277/480 | L22-20      | 5              | V-0-MAX Std | 2520   | Black & White   | 2521     |
|      |        |                   |             |                | V-0-MAX Std | 2520   | Wetguard        | 26W82    |
|      |        | 3Ø Wye<br>347/600 | L23-20      | NA             | V-0-MAX Std | 2530   | Black & White   | 2531     |
|      |        |                   |             |                | V-0-MAX Std | 2530   | Wetguard        | 26W83    |
| 30 A | 2P, 3W | 125               | L5-30       | 2              | V-0-MAX Std | 2610   | Power Indicator | 2611-PLC |
|      |        |                   |             |                | V-0-MAX CR  | 26CM10 | Wetguard        | 28W47    |
|      |        | 250               | L6-30       | 2              | V-0-MAX Std | 2620   | Power Indicator | 2621-PLC |
|      |        |                   |             |                | V-0-MAX CR  | 26CM20 | Wetguard        | 28W48    |
|      |        | 277               | L7-30       | 3              | V-0-MAX Std | 2630   | Power Indicator | 2631-PLC |
|      |        |                   |             |                | V-0-MAX Std | 2630   | Wetguard        | 28W49    |
|      |        | 480               | L8-30       | 5              | V-0-MAX Std | 2640   | Black & White   | 2641     |
|      |        | 600               | L9-30       | NA             | V-0-MAX Std | 2650   | Black & White   | C2651    |
|      | 3P, 4W | 125/250           | L14-30      | 2 L-N<br>2 L-L | V-0-MAX Std | 2710   | Black & White   | 2711     |
|      |        |                   |             |                | V-0-MAX CR  | 27CM10 | Wetguard        | 28W74    |
|      |        | 3Ø250             | L15-30      | 3              | V-0-MAX Std | 2720   | Black & White   | 2721     |
|      |        |                   |             |                | V-0-MAX CR  | 27CM20 | Wetguard        | 28W75    |
|      |        | 3Ø480             | L16-30      | 10             | V-0-MAX Std | 2730   | Black & White   | 2731     |
|      |        |                   |             |                | V-0-MAX Std | 2730   | Wetguard        | 28W76    |
|      |        | 3Ø600             | L17-30      | NA             | V-0-MAX Std | 2740   | Black & White   | 2741     |
|      |        |                   |             |                | V-0-MAX Std | 2740   | Wetguard        | 28W77    |
|      | 4P, 5W | 3Ø Wye<br>120/208 | L21-30      | 3              | V-0-MAX Std | 2810   | Black & White   | 2811     |
|      |        |                   |             |                | V-0-MAX Std | 2810   | Wetguard        | 28W81    |
|      |        | 3Ø Wye<br>277/480 | L22-30      | 10             | V-0-MAX Std | 2820   | Black & White   | 2821     |
|      |        |                   |             |                | V-0-MAX Std | 2820   | Wetguard        | 28W82    |
|      |        | 3Ø Wye<br>347/600 | L23-30      | NA             | V-0-MAX Std | 2830   | Black & White   | 2831     |
|      |        |                   |             |                | V-0-MAX Std | 2830   | Wetguard        | 28W83    |

Note: For an environmental rating of IP66, UL Standard 50, and NEMA environmental ratings of 4X and 12K, a Leviton Wetguard® mating locking plug must be used.

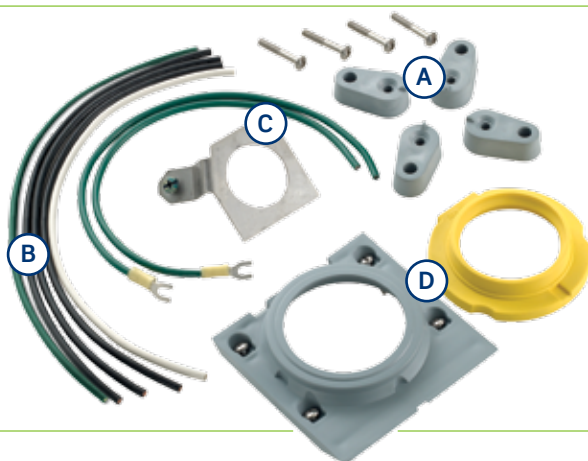
Accessories and replacement parts listed on page 43.

## Specifications

| Catalog Number                        | MIDSR-23                                                                                     |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Electrical Specifications</b>      |                                                                                              |
| Amperage                              | Up to 30 A                                                                                   |
| Voltage                               | Up to 600 V AC                                                                               |
| Current Interrupting                  | Certified for full-rated current and voltage                                                 |
| Dielectric Voltage                    | 1000 V plus twice rated voltage for 1 minute                                                 |
| Endurance                             | 6000 operations at rated current and voltage (Power factor 0.75-0.80)                        |
| Short Circuit Current Rating (SCCR)   | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps |
| <b>Environmental Specifications</b>   |                                                                                              |
| Flammability                          | V-2 per UL 94                                                                                |
| Operating Temperature                 | -40 °C to 60 °C                                                                              |
| UV Resistance                         | Exposed plastic materials are UV stabilized                                                  |
| <b>Material Specifications</b>        |                                                                                              |
| Enclosure                             | PBT                                                                                          |
| Handle                                | PBT                                                                                          |
| Enclosure Screws                      | Stainless Steel                                                                              |
| <b>Mechanical Specifications</b>      |                                                                                              |
| Terminal Identification               | In accordance with UL and international conventions                                          |
| Product Identification                | Ratings are permanently marked on device                                                     |
| Terminal Accommodation                | #14-#8 AWG                                                                                   |
| Impact Resistance                     | In accordance with UL 746C                                                                   |
| <b>Standards &amp; Certifications</b> |                                                                                              |
| NEMA                                  | WD 1 & WD 6                                                                                  |
| UL Standard                           | Listed to UL 60947-4-1 (supersedes UL 508)                                                   |
| IEC                                   | 947-3                                                                                        |
| <b>Warranty</b>                       |                                                                                              |
| Product Warranty                      | 2-year Limited                                                                               |

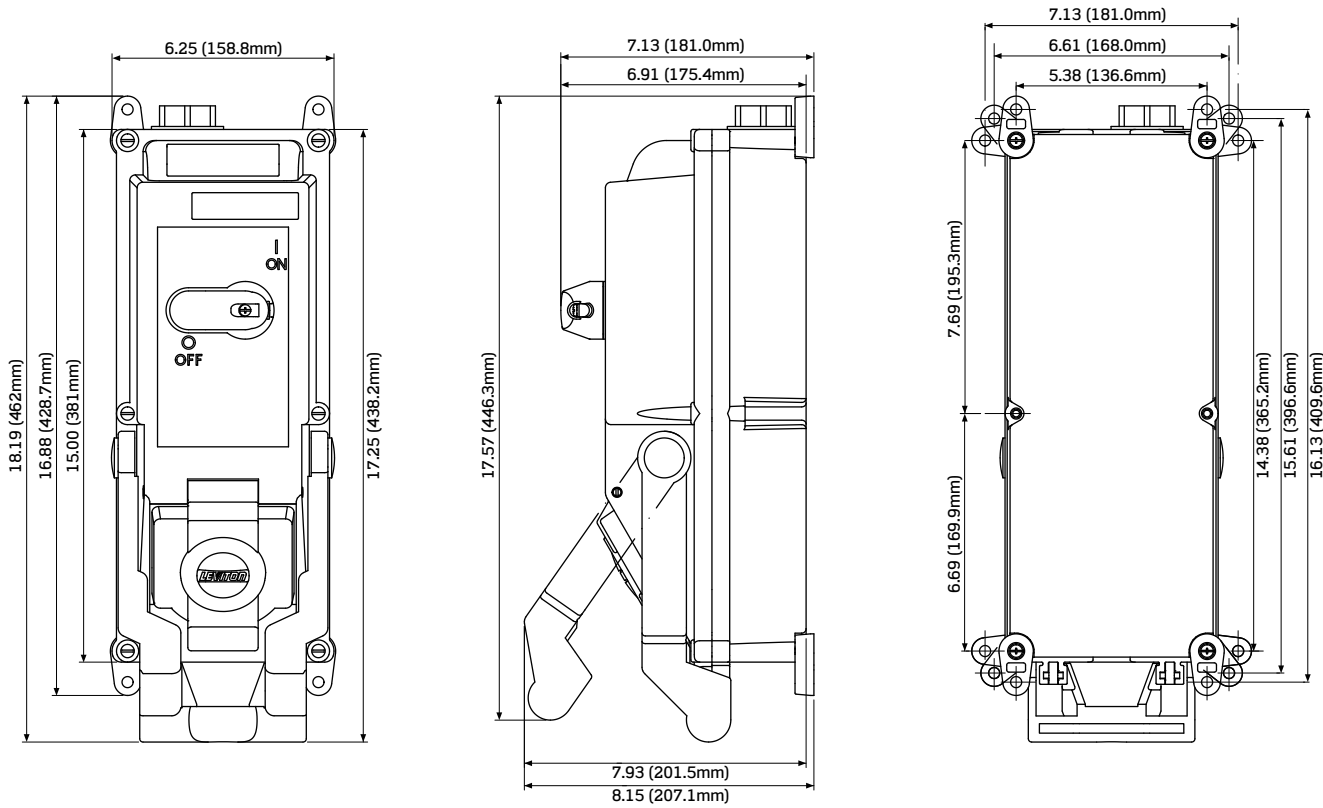
### Every Powerswitch® MIDSR-23 Switched Enclosure is supplied with:

- A) 4 gray mounting feet & 4 screws
- B) Extra wire accommodates all receptacle to switch connections (1-white, 1-green, 3-black)
- C) 2 green wires and ground bracket
- D) Wetguard® seal package for use with corrosion resistant receptacles and Wetguard® plugs



# Dimensional Diagrams

MIDSR-23



# powerswitch®

## mechanical interlocks with UL 60309 pin & sleeve receptacles

Powerswitch® Mechanical Interlock devices incorporate a safety disconnect switch and IEC receptacle in a non-metallic IP67 Watertight enclosure. The interlock mechanism prevents making and breaking of power under load. The switch cannot be actuated to the ON position until an IEC compatible plug is fully inserted and the plug cannot be removed until the switch is in the OFF position. The complete IEC 60309-1 and 60309-2 system of plugs, connectors, inlets and mechanical interlock devices can be used for both retrofit and new installations for enhanced safety and performance in critical power connections.

### Features and Benefits:

- 20, 30, 60 Amp non-fused and fused
- 100 Amp non-fused and breakered
- Fused models accept “Class J” time-delay fuses
- Backed by a limited 2-year warranty

- Liquid-tight conduit fitting can be installed for top or bottom feed; Conduit hub sold separately
- Stainless steel screws are captive and will not fall out when cover is opened
- Red “pistol grip” handle provides visual confirmation of switch’s status
- Integrated lockout handle meets OSHA safety regulations
- Impact, UV and chemical-resistant Valox® enclosure rated to UL and IEC watertight standards
  - Type 3R, 4X & 12K
  - IP67
- Circuit identification pad for identifying specific equipment loads
- Color-coded receptacle cover indicates voltage rating of device and seals against water and other contaminants when not in use



420MF9W



420MF9W  
(Inside View)

- Pre-wired grounding plate connects to metal conduit grounding system
- Generous wiring space for drip loop or top to bottom wiring
- Brass threaded inserts will not strip, provide higher torque, and form tighter seal between back box and cover
- Disconnect switch with integrated fuse holder offers proven performance in a compact package
  - Fused cartridges accept “Class J” fuses (not included)
  - One factory installed auxiliary contact (normally opened – 10 Amp); Additional auxiliary contact available
  - Easily accessible neutral and ground terminal blocks
- Pre-wired IEC receptacle accepts all manufacturer’s IEC 60309-2 plugs
- Rugged hinge mechanism pivots 180° for easy access during installation and maintenance

## Switched Enclosures for UL 60309 Pin & Sleeve Receptacles

| Amp | Wiring | Voltage AC | Color  | Recept. Config.                                                                     | Plug Config.                                                                        | Non-Fused Mechanical Interlock Cat. No. | HP Rating | Fused Mechanical Interlock Cat. No. | HP Rating | Use Plug Cat. No. |
|-----|--------|------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|-----------|-------------------------------------|-----------|-------------------|
| 20  | 2p3w   | 240        | Blue   |    |    | 320MI6W                                 | 3         | —                                   | —         | 320P6W            |
|     | 2p3w   | 480        | Red    |    |    | 320MI7W                                 | 5         | —                                   | —         | 320P7W            |
|     | 3p4w   | 125/250    | Orange |    |    | 420MI12W                                | *         | 420MF12W                            | *         | 420P12W           |
|     | 3p4w   | 3Ø240      | Blue   |    |    | 420MI9W                                 | 10        | 420MF9W                             | 5         | 420P9W            |
|     | 3p4w   | 3Ø480      | Red    |    |    | 420MI7W                                 | 20        | 420MF7W                             | 10        | 420P7W            |
|     | 3p4w   | 3Ø600      | Black  |    |    | 420MI5W                                 | 25        | 420MF5W                             | 15        | 420P5W            |
|     | 4p5w   | 3ØY120/208 | Blue   |    |    | 520MI9W                                 | 10        | —                                   | —         | 520P9W            |
|     | 4p5w   | 3ØY277/480 | Red    |    |    | 520MI7W                                 | 20        | —                                   | —         | 520P7W            |
|     | 4p5w   | 3ØY347/600 | Black  |    |    | 520MI5W                                 | 25        | —                                   | —         | 520P5W            |
| 30  | 2p3w   | 240        | Blue   |    |    | 330MI6W                                 | 5         | —                                   | —         | 330P6W            |
|     | 2p3w   | 480        | Red    |    |    | 330MI7W                                 | 10        | —                                   | —         | 330P7W            |
|     | 3p4w   | 125/250    | Orange |    |    | 430MI12W                                | *         | 430MF12W                            | *         | 430P12W           |
|     | 3p4w   | 3Ø240      | Blue   |  |  | 430MI9W                                 | 10        | 430MF9W                             | 7.5       | 430P9W            |
|     | 3p4w   | 3Ø480      | Red    |  |  | 430MI7W                                 | 20        | 430MF7W                             | 15        | 430P7W            |
|     | 3p4w   | 3Ø600      | Black  |  |  | 430MI5W                                 | 25        | 430MF5W                             | 20        | 430P5W            |
|     | 4p5w   | 3ØY120/208 | Blue   |  |  | 530MI9W                                 | 10        | —                                   | —         | 530P9W            |
|     | 4p5w   | 3ØY277/480 | Red    |  |  | 530MI7W                                 | 20        | 530MF7W                             | 15        | 530P7W            |
|     | 4p5w   | 3ØY347/600 | Black  |  |  | 530MI5W                                 | 25        | 530MF5W                             | 20        | 530P5W            |
| 60  | 2p3w   | 240        | Blue   |  |  | 360MI6W                                 | 10        | 360MF6W                             | *         | 360P6W            |
|     | 2p3w   | 480        | Red    |  |  | 360MI7W                                 | 20        | —                                   | —         | 360P7W            |
|     | 3p4w   | 125/250    | Orange |  |  | 460MI12W                                | *         | 460MF12W                            | *         | 460P12W           |
|     | 3p4w   | 3Ø240      | Blue   |  |  | 460MI9W                                 | 20        | 460MF9W                             | 15        | 460P9W            |
|     | 3p4w   | 3Ø480      | Red    |  |  | 460MI7W                                 | 40        | 460MF7W                             | 30        | 460P7W            |
|     | 3p4w   | 3Ø600      | Black  |  |  | 460MI5W                                 | 40        | 460MF5W                             | 50        | 460P5W            |
|     | 4p5w   | 3ØY120/208 | Blue   |  |  | 560MI9W                                 | 20        | 560MF9W                             | 15        | 560P9W            |
|     | 4p5w   | 3ØY277/480 | Red    |  |  | 560MI7W                                 | 40        | —                                   | —         | 560P7W            |
|     | 4p5w   | 3ØY347/600 | Black  |  |  | 560MI5W                                 | 40        | —                                   | —         | 560P5W            |

\*Consult factory for your specific application.  
Fused models accept "Class J" time-delay fuses.

Accessories and replacement parts listed on page 43.

## Switched Enclosures for UL 60309 Pin & Sleeve Receptacles (Continued)

| Amp | Wiring | Voltage AC | Color  | Recept. Config.                                                                   | Plug Config.                                                                      | Non-Fused Mechanical Interlock Cat. No. | HP Rating | Breakered Mechanical Interlock Cat. No. | HP Rating | Use Plug Cat. No. |
|-----|--------|------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------------------------------------|-----------|-------------------|
| 100 | 2p3w   | 125        | Yellow |  |  | 3100MI4W                                | *         | —                                       | —         | 3100P4W           |
|     | 2p3w   | 240        | Blue   |  |  | 3100MI6W                                | 15        | —                                       | —         | 3100P6W           |
|     | 2p3w   | 480        | Red    |  |  | 3100MI7W                                | 25        | —                                       | —         | 3100P7W           |
|     | 3p4w   | 125/250    | Orange |  |  | 4100MI12W                               | *         | —                                       | —         | 4100P12W          |
|     | 3p4w   | 3Ø240      | Blue   |  |  | 4100MI9W                                | 30        | 4100MB9W                                | 30        | 4100P9W           |
|     | 3p4w   | 3Ø480      | Red    |  |  | 4100MI7W                                | 50        | 4100MB7W                                | 50        | 4100P7W           |
|     | 3p4w   | 3Ø600      | Black  |  |  | 4100MI5W                                | 50        | —                                       | —         | 4100P5W           |
|     | 4p5w   | 3ØY120/208 | Blue   |  |  | 5100MI9W                                | 25        | 5100MB9W                                | 25        | 5100P9W           |
|     | 4p5w   | 3Ø120/208  | Red    |  |  | 5100MI7W                                | 50        | —                                       | —         | 5100P7W           |
|     | 4p5w   | 3Ø120/208  | Black  |  |  | 5100MI5W                                | 50        | —                                       | —         | 5100P5W           |

\*Consult factory for your specific application

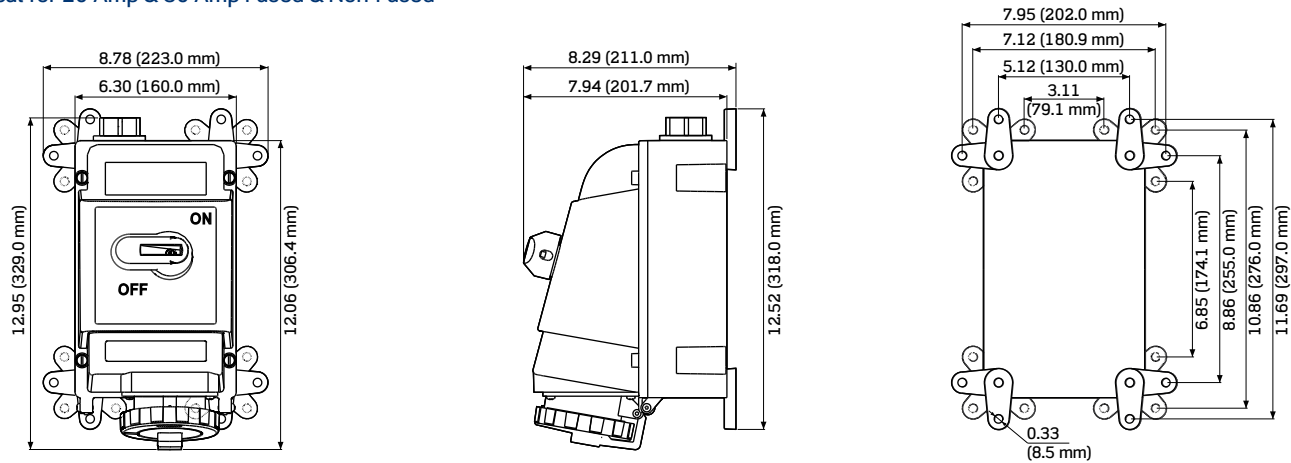
Accessories and replacement parts listed on page 43.

## Specifications

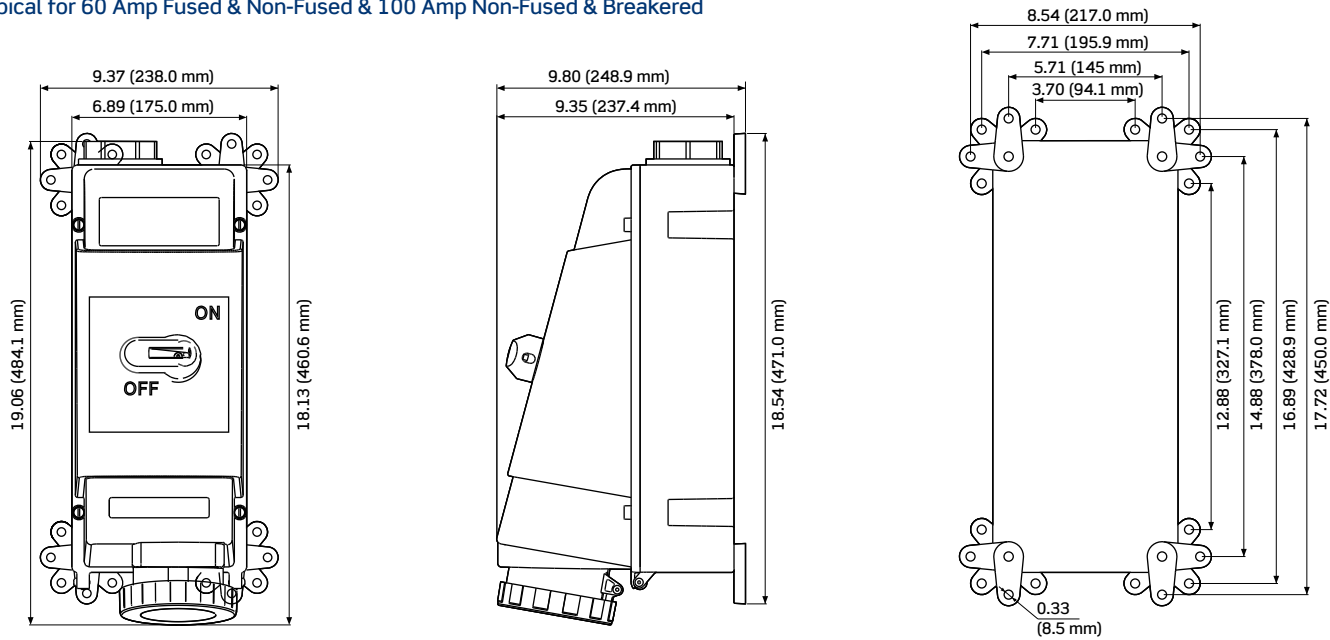
| Description                           | Fused, Non-Fused & Breakered Mechanical Interlocks                                           |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Electrical Specifications</b>      |                                                                                              |
| Amperage                              | Up to 100 A                                                                                  |
| Voltage                               | Up to 600 V AC                                                                               |
| Current Interrupting                  | Certified for full-rated current and voltage                                                 |
| Dielectric Voltage                    | 1000 V plus rated voltage for 1 minute                                                       |
| Endurance                             | 6000 cycles inductive motor type load                                                        |
| Short Circuit Current Rating (SCCR)   | Suitable for use on circuits capable of delivering not more than 10,000 RMS symmetrical amps |
| <b>Environmental Specifications</b>   |                                                                                              |
| Flammability                          | V-0 per UL 94                                                                                |
| Operating Temperature                 | -40 °C to 60 °C                                                                              |
| UV Resistance                         | Exposed plastic materials are UV stabilized                                                  |
| <b>Material Specifications</b>        |                                                                                              |
| Enclosure                             | PBT                                                                                          |
| Handle                                | PBT                                                                                          |
| Enclosure Screws                      | Stainless Steel                                                                              |
| <b>Mechanical Specifications</b>      |                                                                                              |
| Terminal Identification               | In accordance with UL and international conventions                                          |
| Product Identification                | Ratings are permanently marked on device                                                     |
| Impact Resistance                     | In accordance with UL 746C                                                                   |
| <b>Standards &amp; Certifications</b> |                                                                                              |
| NEMA                                  | WD 1 & WD 6                                                                                  |
| UL Standard                           | Listed to UL 231, UL 1686<br>Non-Fused: UL 60947-4-1 (UL 508) • Fused: UL 98                 |
| CSA                                   | C22.2 No. 182.1, No. 14                                                                      |
| IEC 947-3                             | 60309-2                                                                                      |
| <b>Warranty</b>                       |                                                                                              |
| Product Warranty                      | 2-year Limited                                                                               |

# Dimensional Diagrams

Typical for 20 Amp & 30 Amp Fused & Non-Fused



Typical for 60 Amp Fused & Non-Fused & 100 Amp Non-Fused & Breakered



# Switch Accessories



30ASW & AUXNO



30AHN



MOUNT-KT2

| Description                                                                                                                                                 | Related Product Section | Catalog Number |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|
| Auxiliary Contact, NO                                                                                                                                       | 3                       | AUXNO          |
| Auxiliary Contact, NC                                                                                                                                       | 3                       | AUXNC          |
| Replacement Handle for MDS30-AX                                                                                                                             | 3                       | 30AHN          |
| Replacement Switch for DS30-AX and MDS30-AX                                                                                                                 | 3                       | 30ASW          |
| Mounting Kit for MS4X and DS30-AX Disconnects Only, Includes 4 Screws and 4 Gray Feet                                                                       | 2, 3                    | MOUNT-KIT*     |
| Mounting Kit for All Fused and Non-Fused Disconnects and Mechanical Interlocks <u>EXCEPT</u> MS4X, DS30-AX EDSR and MIDS, Includes 4 Screws and 4 Gray Feet | 3, 4                    | MOUNT-KT2*     |

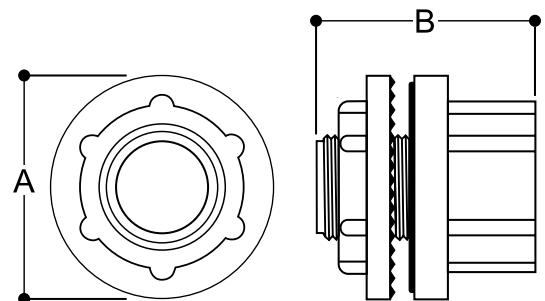
\*Please contact customer service for availability.

## Watertight Conduit Hubs

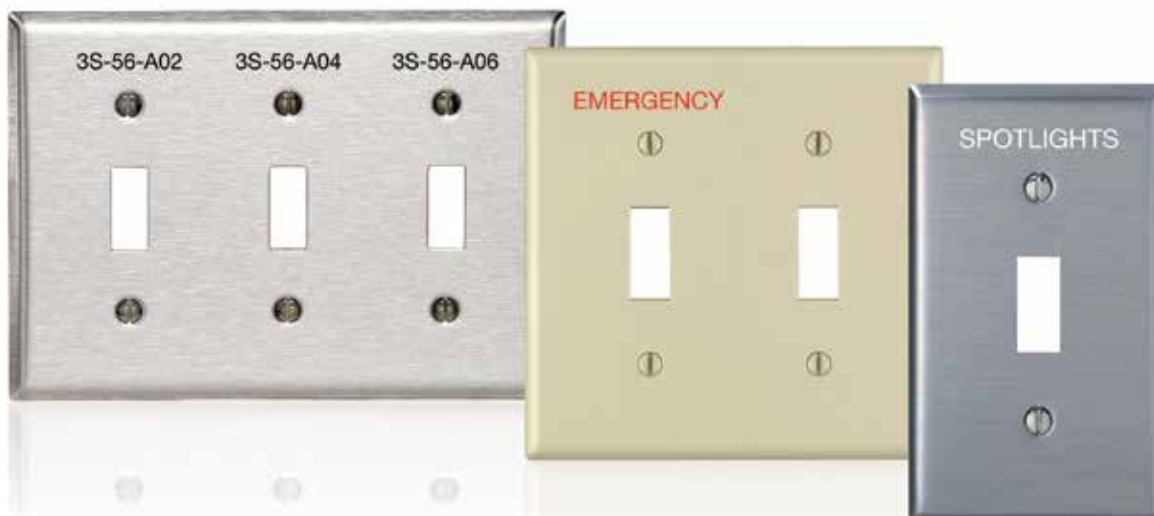
| Description                                                                                                                                                                                                                                                                                                                                                                                                   | Hub Size | Dimensions(in) |      | Mounting Hole (min.) | Catalog Number |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|------|----------------------|----------------|
|                                                                                                                                                                                                                                                                                                                                                                                                               |          | A              | B    |                      |                |
| Featuring serrations that provide a reliable watertight seal even with a rough or oversized knock-out. Constructed of die-cast zinc, they offer positive grounding, insulated throats to protect wire abrasion and an embedded O-Ring to ensure a watertight seal. For use with IMC (Intermediate Metal Conduit) or rigid conduit. UL listed and CSA certified; Type 2, 3R, 4, 4X, 5, 12, 13; RoHS compliant. | ¾"       | 1.73           | 1.37 | 1.05                 | HUB-34         |
|                                                                                                                                                                                                                                                                                                                                                                                                               | 1"       | 2.04           | 1.59 | 1.31                 | HUB-100        |
|                                                                                                                                                                                                                                                                                                                                                                                                               | 1 ¼"     | 2.42           | 1.59 | 1.66                 | HUB-114        |
|                                                                                                                                                                                                                                                                                                                                                                                                               | 1 ½"     | 2.79           | 1.59 | 1.90                 | HUB-112        |
|                                                                                                                                                                                                                                                                                                                                                                                                               | 2"       | 3.30           | 1.59 | 2.37                 | HUB-200        |



HUB112  
(Front & Back View)



# Custom Wallplates: How To Order



## General Information

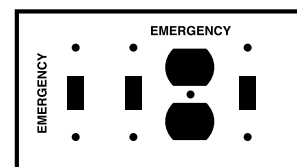
Custom wallplates, up to twelve gangs in size, made of brass, stainless steel, painted steel, aluminum or chrome, can be special ordered from Leviton. Any combination of the configurations shown can be specified to meet your needs. In addition, standard and custom metal wallplates can be engraved, and standard nylon wallplates can be hot stamped, with the message of your choice. Follow the steps below to fill out the Custom Wallplate Order Form completely and accurately. The finished order form must include:

1. The wallplate catalog number
2. The type of wallplate material desired (from the Material Code Chart)
3. The quantity of wallplates desired
4. The wallplate configurations in proper order (from the Configuration Code Chart)
5. The wallplate color, selected from the Wallplate Color Code Chart
6. Engraved information with message location and letter size
7. Hot stamped message filler color, selected from the Fill-In Color Chart

Photocopy the blank Custom Wallplate Order Form at the back of this section and refer to the completed sample Custom Wallplate Order Form shown when filling out your order. Your Leviton representative can provide you with additional forms if needed.

The sample order grid below shows the custom wallplate (example only), pictured at right:

Note: Messaging can be written horizontally or vertically. Please contact Leviton for examples of spacing and sizing



## Sample Grid

STEP: 1 CAT. NO. 90004 STEP: 2 MATERIAL CODE S3 STEP: 3 QTY. 1

### STEP: 4 WALLPLATE CONFIGURATION & MESSAGE LOCATION

|           | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| EMERGENCY | 01  | 01  | 03  | 01  |     |     |     |     |     |      |      |      |

STEP: 5 WALLPLATE COLOR CODE N/A

### STEP: 6 ENGRAVING INFORMATION

ENGRAVED ☒ FILLER CODE ENGRAVED \_\_\_\_\_ LETTER SIZE 3/8"

E M E R G E N C Y [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

### STEP: 7 HOT STAMPING INFORMATION

HOT STAMPED ☒ FILLER COLOR CODE (HOT STAMPED) \_\_\_\_\_

Continued on next page

## How To Fill Out The Custom Wallplate Order Form

Continued from previous page

### Step 1: Determine the Wallplate Catalog Number

The catalog number for a custom wallplate is determined as follows: a single-gang custom wallplate is Cat. No. 90001, a double-gang custom wallplate is Cat. No. 90002, a three-gang custom wallplate is Cat. No. 90003, and so on through the sequence to Cat. No. 90010 for a ten-gang custom wallplate. Enter the number in the space on the Order Form marked "CAT. NO." If you are ordering a standard metal wallplate for custom engraving, use the 90000 series number. If you are ordering a standard nylon wallplate for custom hot stamping, enter that wallplate's catalog number in the space on the Order Form marked "CAT. NO."

### Step 2: Select the Wallplate Material

Choose the custom wallplate material desired from the Material Chart below. Enter the material code for the material selected in the space marked "MATERIAL CODE" on the Order Form. When ordering Custom Hot Stamped wallplates, enter NYLON.

| Material                                            | Material Code                     |
|-----------------------------------------------------|-----------------------------------|
| Aluminum*                                           | AL — No Engraving or Hot Stamping |
| Brass (Satin)                                       | BR                                |
| Polished Brass                                      | PB                                |
| Non-Magnetic Stainless Steel-Type 302/304           | S3                                |
| Oversize Non-Magnetic Stainless Steel-Type 302/304* | S30                               |
| Painted Steel                                       | S5                                |
| Oversize Painted Steel**                            | S50                               |
| Chrome                                              | CRM                               |
| Raw Steel                                           | RAW                               |

\*6-Gang maximum size, standard size only.

\*\*4-Gang maximum size

### Step 3: Determine the Quantity of the Wallplate Order

Enter the number of wallplates needed in the space marked "QUANTITY" on the Order Form.

### Step 4: Determine the Custom Wallplate Configuration

The Wallplate Configuration Chart below shows all the configurations that can be specified for Leviton custom metal wallplates. Each configuration has a specific Configuration Code number in the lower right-hand corner of its corresponding space on the chart. Enter this configuration code in the center of the corresponding square on the Order Form Grid to match its desired position on the finished custom wallplate. If necessary refer to the Sample Order Form Grid on page T-23 for clarification on configurations and their placement.

|                                                                                                                                            |                                                                                                                                      |                                                                                                                                  |                                                                                                                                       |                                                                                                                                    |                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Toggle Switch<br><b>01</b>                          | <br>Duplex Receptacle<br><b>03</b>                | <br>Louvre Horizontal Mount<br><b>05</b>      | <br>Louvre Vertical Mount*<br><b>07</b>            | <br>Blank Box Mount<br><b>09</b>              | <br>Blank Strap Mount<br><b>11</b>                                                                                      |
| <br>Decora/<br>GFCI<br><b>13</b>                        | <br>Single 1.406" dia.<br>Receptacle<br><b>15</b> | <br>1.60" dia.<br>Hole<br><b>17</b>           | <br>2.15" dia.<br>Hole**<br><b>19</b>              | <br>2.647" dia.<br>Hole**<br><b>21</b>        | <br>.312" dia. Hole<br>Strap Mount<br><b>23</b>                                                                         |
| <br>.312" dia. Hole<br>Box Mount<br><b>25</b>           | <br>.406" dia. Hole<br>Strap Mount<br><b>27</b>   | <br>.406" dia. Hole<br>Box Mount<br><b>29</b> | <br>.625" dia. Hole<br>Strap Mount<br><b>31</b>    | <br>.625" dia. Hole<br>Box Mount<br><b>33</b> | <br>Interchangeable<br>1-Device Vertical<br><b>35</b>                                                                   |
| <br>Interchangeable<br>1-Device Horizontal<br><b>37</b> | <br>Interchangeable<br>2-Device<br><b>39</b>      | <br>Interchangeable<br>3-Device<br><b>41</b>  | <br>2.460" dia. Hole<br>2-Gang Only**<br><b>47</b> | <br><b>49</b>                                 | 0.880" dia. Hole for Key Lock<br>Power Switch*. Tamper-resistant<br>screws and screwdriver included<br>w/Key Lock configurations. Device<br>mount unless specified otherwise.<br>For 1-gang, order 84071-40. |

Enter the code number for the configurations you select in the center box on each desired wallplate position on the Custom Wallplate Order Form.

\*3-Gang minimum.

\*\*2-Gang minimum

Continued on next page

## How To Fill Out The Custom Wallplate Order Form

Continued from previous page

### Step 5: Select the Wallplate Color

For painted metal, select one of the following colors and enter its color code in the space marked "COLOR CODE" on the order form:

| Color                  | Wallplate Color Code |
|------------------------|----------------------|
| Black                  | PE                   |
| Brown                  | PB                   |
| Gray                   | PG                   |
| Ivory                  | PI                   |
| Orange                 | PO                   |
| Red                    | PR                   |
| White                  | PW                   |
| Lt. Almond             | PT                   |
| Antimicrobial - Clear* | AC                   |

\*Only available on Stainless Steel. Contact Customer Service for lead time

### Step 6: Enter Engraving Information

**NOTE: WE CAN ENGRAVE NYLON AND PAINTED AND UNPAINTED METAL WALLPLATES.** After completing steps 1-5:

6A) Type or clearly print the message(s) (i.e., TURN OFF) as you wish it to appear on the lines provided in the appropriate Grid box(es).

6B) Select the size of the letters you desire for the wallplate message from the dimensions shown below and enter that size in the space marked "LETTER SIZE" on the Order Form.

6C) Select the fill-in color for the message letters from the chart below and enter the code for the color chosen in the space marked "FILLER CODE."

Note: Nylon Plates — Engraving or Hot Stamping only on Stock Cat. Numbers

| Filler Color Codes for Engraved Wallplates |      | Letter Size Gauge for Engraved Wallplates |       |      |       |      |
|--------------------------------------------|------|-------------------------------------------|-------|------|-------|------|
| Color                                      | Code | 1/8"                                      | 3/16" | 1/4" | 5/16" | 3/8" |
| Black                                      | PE   |                                           |       |      |       |      |
| White                                      | PW   |                                           |       |      |       |      |
| Red                                        | PR   |                                           |       |      |       |      |
| No Filler                                  | XX   |                                           |       |      |       |      |

Note: Letters above shown actual size

### Step 7: Enter Hot Stamping Information

7A) Select the message(s) desired from the Message Library below. Enter the message on the lines provided in the appropriate Grid box(es) where they should appear. The message will be stamped in 3/16"-high text.

#### HOT STAMPING MESSAGE LIBRARY FOR CUSTOM NYLON WALLPLATES

|                    |             |                |                       |                 |
|--------------------|-------------|----------------|-----------------------|-----------------|
| 1. SHOWER          | 7. HEAT     | 13. ON         | 19. ISOLATED          | 25. EQUIP       |
| 2. VANITY          | 8. DATA     | 14. PROTECTED  | 20. GROUND            | 26. FLUORESCENT |
| 3. VOICE           | 9. COMPUTER | 15. OFF        | 21. CONDITIONED       | 27. OIL         |
| 4. ONLY            | 10. GFCI    | 16. OIL BURNER | 22. CONDITIONED POWER | 28. POWER       |
| 5. ISOLATED GROUND | 11. SURGE   | 17. PC         | 23. CRITICAL          | 29. UPS         |
| 6. EMERGENCY       | 12. FAN     | 18. DEDICATED  | 24. ELEC.             |                 |

7B) Select the fill-in color for the message letters from the chart below and enter the code for the color chosen in the space marked "FILLER CODE."

| Filler Color Codes for Hot Stamping |      |
|-------------------------------------|------|
| Color                               | Code |
| Black                               | XE   |
| White                               | XW   |
| Red                                 | XR   |
| No Filler                           | XX   |

To order nylon wallplates with custom hot stamped message, contact your Leviton salesman or customer service representative

8) Note: Sequential engraving is available. Consult factory for ordering instructions.

Continued on next page

# Custom Wallplate Order Form

To order Custom Wallplates, please fill out this form and send to your Leviton representative.

BILL TO: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SHIP TO: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

P.O. #: \_\_\_\_\_

PRICE: \_\_\_\_\_

**STEP: 1** CAT. NO. \_\_\_\_\_ **STEP: 2** MATERIAL CODE pick one \_\_\_\_\_ (AL) (BR) (PB) (S3) (S30) (S5) (CRM) (RAW)

**STEP: 3** QTY. \_\_\_\_\_ **STEP: 4** WALLPLATE CONFIGURATION & MESSAGE LOCATION

| (1)                      | (2)                      | (3)                      | (4)                      | (5)                      | (6)                      | (7)                      | (8)                      | (9)                      | (10)                     | (11)                     | (12)                     |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**STEP: 5** WALLPLATE COLOR CODE pick one \_\_\_\_\_ (PE) (PB) (PG) (PI) (PO) (PR) (PW) (PT) (AC)

**STEP: 6** ENGRAVING INFORMATION pick one \_\_\_\_\_ (YES) (NO)

ENGRAVED FILLER CODE pick one \_\_\_\_\_ (PE) (PB) (PG) (PI) (PO) (PR) (PW) (PT)

ENGRAVED LETTER SIZE pick one \_\_\_\_\_ (1/8") (3/16") (1/4") (5/16") (3/8")

## Engraving Information (Please print per corresponding gang number)

|      |       |
|------|-------|
| (1)  | _____ |
| (2)  | _____ |
| (3)  | _____ |
| (4)  | _____ |
| (5)  | _____ |
| (6)  | _____ |
| (7)  | _____ |
| (8)  | _____ |
| (9)  | _____ |
| (10) | _____ |
| (11) | _____ |
| (12) | _____ |

**STEP: 7** HOT STAMPING INFORMATION pick one \_\_\_\_\_ (YES) (NO)

HOT STAMPED FILLER CODE pick one \_\_\_\_\_ (XE) (XW) (XR) (XX)

ADDITIONAL INFORMATION (Use this space to add additional information that may be helpful.)

### TERMS

- Please take care to complete your order carefully. Custom wallplates cannot be returned
- Custom orders are shipped in three to four weeks
- All engraving shall be centered within its corresponding gang unless specifically instructed to span across multiple gangs
- All engravings on toggle configurations shall appear above the mounting screw holes unless specifically instructed otherwise
- All engravings on GFCI/Decora® configurations shall appear below the mounting screw hole unless specifically instructed otherwise

**Leviton Manufacturing Co., Inc.**

201 N Service Rd, Melville, NY 11747

Telephone: 1-800-323-8920 • Fax: 1-800-832-9538

Tech Line (8:30AM-7:00PM E.S.T. Monday-Friday): 1-800-824-3005

**Leviton Manufacturing of Canada, Ltd.**

165 Hymus Blvd, Pointe-Claire, QC H9R 1E9

Telephone: 1-800-469-7890 • Fax: 1-800-563-1853

**Leviton S. de R.L. de C.V.**

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