

# Industrial grade L16-30 locking devices

|                 |              |
|-----------------|--------------|
| Project Name:   | Prepared By: |
| Project Number: | Date:        |
| Catalog Number: | Type:        |



AHL1630P



AHL1630C



AHL1630R



AHL1630FO

## Description

NEMA L16-30 30A, 3Ø 480V/AC, 3P-4W



L16-30R L16-30P

### Design features for plug & connector

- All nylon construction
- EPDM gasket seals cord hole from dust and debris
- Back wire terminal clamps for easy secure wiring
- Individual wiring compartments with tapered channel for easy insertion of wires
- Clear cover over wiring compartments allows easy inspection of wiring terminations
- Rating printed on side of device
- Largest-in-class grommet size allows for entire cord size range

### Design features for receptacle

- Rugged glass filled nylon body
- Clearly marked rating, NEMA configuration and approval listings on receptacle face
- One piece brass contacts offer superior performance and minimum heat rise
- Back and side wiring terminal clamps for easy, secure wiring

### Design features for flanged inlet & outlet

- All nylon construction
- Mounting holes interchangeable with competitive units
- Back wire terminal clamps for easy, secure wiring
- Individual wiring compartments with tapered channel for easy insertion of wires

**Table 1. NEMA L16-30 Industrial Grade Locking Devices**

| Catalog No. | Description                   | Amps | Volts | Color         |
|-------------|-------------------------------|------|-------|---------------|
| □ AHL1630P  | Ultra grip plug, 3-phase      | 30   | 480   | Black & white |
| □ AHL1630C  | Ultra grip connector, 3-phase | 30   | 480   | Black & white |
| □ AHL1630R  | Single receptacle, 3-phase    | 30   | 480   | Black         |
| □ AHL1630FO | Flanged outlet, 3-phase       | 30   | 480   | Black & white |
| □ AHL1630FI | Flanged inlet, 3-phase        | 30   | 480   | Black & white |

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## Plug & Connector

NEMA L16-30 30A, 3Ø 480V/AC, 3P-4W

Table 2. Specifications

| Catalog No.                  | NEMA L16-30 Plug & Connector                                                                                                                                                                                                           |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Config                  | NEMA L16-30                                                                                                                                                                                                                            |
| Wiring Type                  | Back wire                                                                                                                                                                                                                              |
| Environmental Specifications | <b>Flammability:</b> Meets UL94 requirements; V2 rated<br><b>Temperature Rating:</b> -40°C to 60°C (-40°F to 140°F)                                                                                                                    |
| Electrical Specifications    | <b>Dielectric Voltage:</b> Twice the device rating + 1000V per UL498<br><b>Current Interrupting:</b> Yes, at full-rated current<br><b>Temperature Rise:</b> Max. 30°C (86°F) after 50 cycles of overload at 150% of rated current (DC) |
| Mechanical Specifications    | <b>Terminal Accommodation:</b> #16 - #8 AWG<br><b>Voltage Ratings:</b> Permanently marked on device                                                                                                                                    |

Table 3. Materials

| Catalog No.        | NEMA L16-30 Plug & Connector              |
|--------------------|-------------------------------------------|
| NEMA Config        | NEMA L16-30                               |
| Outer Shell        | Nylon                                     |
| Interior Body      | Nylon                                     |
| Terminal Retainer  | Polycarbonate                             |
| Blades             | Brass                                     |
| Line Contacts      | Bronze, tin plated                        |
| Terminal Clamps    | Steel, tin plated                         |
| Terminal Screws    | #10-32 brass, zinc plated (neutral screw) |
| Ground Screw       | #10-32 brass                              |
| Assembly Screws    | Steel, nickel plated                      |
| Gasket/Dust Shield | EPDM                                      |
| Cord Clamp Screws  | Steel, nickel plated                      |
| Cord Clamp         | Nylon                                     |

## Product Dimensions

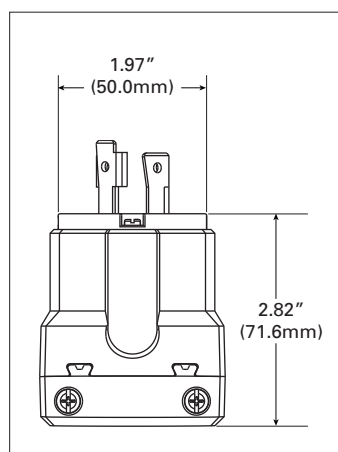


Figure 1. AHL1630P

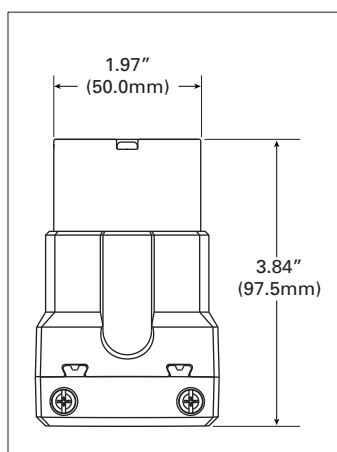


Figure 2. AHL1630C

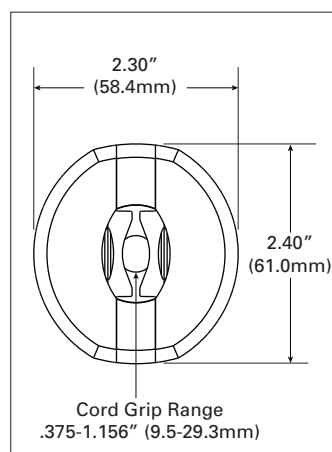


Figure 3. Base Angle

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## Single Receptacle

NEMA L16-30 30A, 3Ø 480V/AC, 3P-4W

Table 4. Specifications

| Catalog No.                  | NEMA L16-30 Single Receptacle                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Config                  | NEMA L16-30                                                                                                                                                                                                                         |
| Wiring Type                  | Back & side wire                                                                                                                                                                                                                    |
| Environmental Specifications | <b>Flammability:</b> Meets UL94 requirements; V0 rated<br><b>Temperature Rating:</b> -40°C to 60°C (-40°F to 140°F)                                                                                                                 |
| Electrical Specifications    | <b>Dielectric Voltage:</b> ≤300V: 2000V, 301-600V: 3000V per UL498<br><b>Current Interrupting:</b> Yes, at full-rated current<br><b>Temperature Rise:</b> Max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC) |
| Mechanical Specifications    | <b>Terminal Accommodation:</b> #14 - #8 AWG<br><b>Voltage Ratings:</b> Permanently marked on device                                                                                                                                 |

Table 5. Materials

| Catalog No.            | NEMA L16-30 Single Receptacle               |
|------------------------|---------------------------------------------|
| NEMA Config            | NEMA L16-30                                 |
| Face                   | Glass-filled nylon                          |
| Base                   | Glass-filled nylon                          |
| Mounting Strap         | 0.050" thick steel, zinc plated             |
| Line Contacts          | 0.041" thick brass                          |
| Terminal Screws        | #10-32 brass, nickel plated (neutral screw) |
| Ground Screw           | #10-32 brass (green)                        |
| Terminal Clamps/Plates | 0.041" thick brass                          |
| Ground Contacts        | 0.041" thick brass                          |
| Back Plate             | 0.041" thick brass, nickel plated           |
| Mounting Screws        | Steel, zinc plated                          |

## Product Dimensions

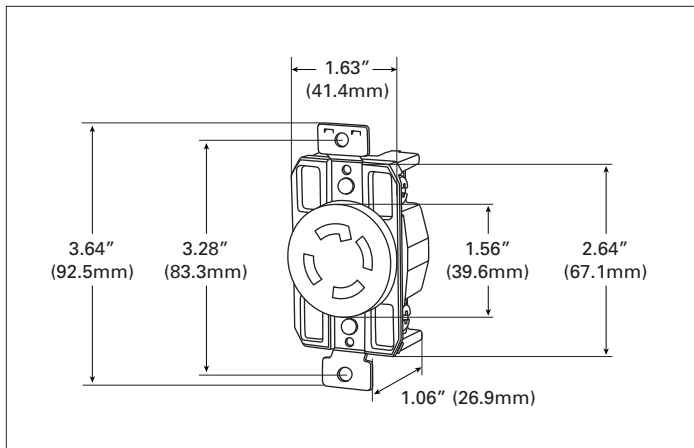


Figure 4. AHL1630R

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| Catalog Number: | Type:        |

## Flanged Outlet & Inlet

NEMA L16-30 30A, 3Ø 480V/AC, 3P-4W

Table 6. Specifications

| Catalog No.                  | NEMA L16-30 Flanged Outlet                                                                                                                                                                                                          | NEMA L16-30 Flanged Inlet                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Config                  | NEMA L16-30                                                                                                                                                                                                                         | NEMA L16-30                                                                                                                                                                                     |
| Wiring Type                  | Back wire                                                                                                                                                                                                                           | Back wire                                                                                                                                                                                       |
| Environmental Specifications | <b>Flammability:</b> Meets UL94 requirements; V2 rated<br><b>Temperature Rating:</b> -40°C to 60°C (-40°F to 140°F)                                                                                                                 | <b>Flammability:</b> Meets UL94 requirements; V2 rated<br><b>Temperature Rating:</b> -40°C to 60°C (-40°F to 140°F)                                                                             |
| Electrical Specifications    | <b>Dielectric Voltage:</b> ≤300V: 2000V, 301-600V: 3000V per UL498<br><b>Current Interrupting:</b> Yes, at full-rated current<br><b>Temperature Rise:</b> Max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC) | <b>Dielectric Voltage:</b> ≤300V: 2000V, 301-600V: 3000V per UL498<br><b>Current Interrupting:</b> Yes, at full-rated current<br><b>Temperature Rise:</b> Max. 30°C (86°F) at max rated current |
| Mechanical Specifications    | <b>Terminal Accommodation:</b> #14 - #8 AWG<br><b>Voltage Ratings:</b> Permanently marked on device                                                                                                                                 | <b>Terminal Accommodation:</b> #14 - #8 AWG<br><b>Voltage Ratings:</b> Permanently marked on device                                                                                             |

Table 7. Materials

| Catalog No.       | NEMA L16-30 Flanged Outlet                  | NEMA L16-30 Flanged Inlet                   |
|-------------------|---------------------------------------------|---------------------------------------------|
| NEMA Config       | NEMA L16-30                                 | NEMA L16-30                                 |
| Outer Shell       | Nylon                                       | Nylon                                       |
| Interior Body     | Nylon                                       | Nylon                                       |
| Terminal Retainer | Polycarbonate                               | Polycarbonate                               |
| Blades            | N/A                                         | 0.062" thick brass                          |
| Line Contacts     | 0.031" thick brass                          | N/A                                         |
| Terminal Clamps   | Steel                                       | Steel                                       |
| Terminal Screws   | #10-32 brass, nickel plated (neutral screw) | #10-32 brass, nickel plated (neutral screw) |
| Ground Screw      | #10-32 brass (green)                        | #10-32 brass (green)                        |
| Assembly Screws   | Steel, zinc plated                          | Steel, zinc plated                          |
| Mounting Screws   | Steel, zinc plated                          | Steel, zinc plated                          |

## Product Dimensions

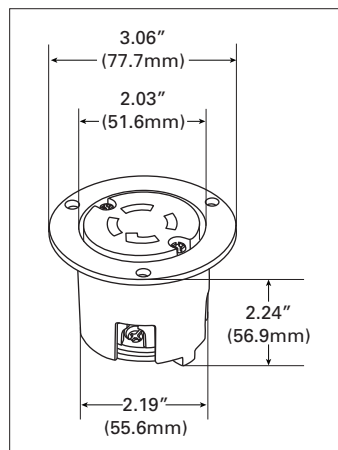


Figure 5. AHL1630FO

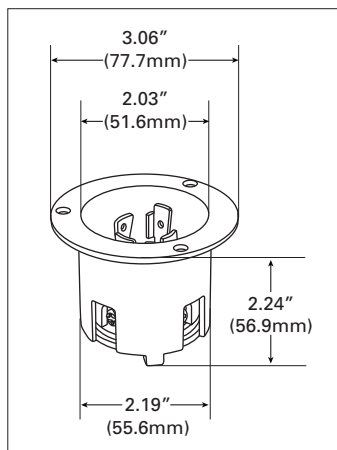


Figure 6. AHL1630FI

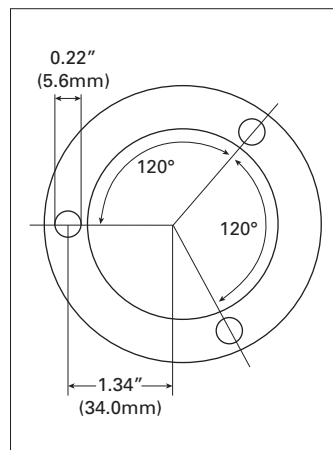


Figure 7. Top View

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### Certifications & Compliances

| Catalog No. |  |  |  |  |  |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| AHL1630P    | •                                                                                 |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |
| AHL1630C    | •                                                                                 |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |
| AHL1630R    |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |
| AHL1630FO   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |
| AHL1630FI   | •                                                                                 |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |

**KEY:**  cULus  UL  CSA  NAFTA  ROHS

 Parts are manufactured and designed in accordance with article 4 of the European Union's RoHS2 directive 2011/65/EU

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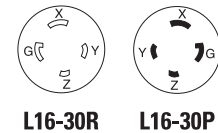
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## Industrial grade 30A locking devices

### Product description

3-pole, 4-wire grounding  
30A, 3Ø 480V/AC  
NEMA L16-30

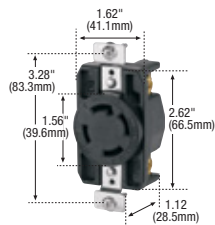


L16-30R

L16-30P



AHL1630P



AHL1630R



AHL1630FI

### Industrial grade plugs & connectors



| Rating<br>A | V/AC | NEMA   | Description                 | Cord<br>diameter           | Color  | Plug<br>catalog no. | Connector<br>catalog no. |   |   |
|-------------|------|--------|-----------------------------|----------------------------|--------|---------------------|--------------------------|---|---|
| 30          | 480  | L16-30 | 3Ø ultra grip straight body | 0.38-1.16"<br>(9.5-29.4mm) | BK & W | □ AHL1630P          | □ AHL1630C               | • | • |

### Industrial grade receptacles



| Rating<br>A | V/AC | NEMA   | Description         | Color | Single<br>receptacle |   |   |
|-------------|------|--------|---------------------|-------|----------------------|---|---|
| 30          | 480  | L16-30 | Standard industrial | BK    | □ AHL1630R           | • | • |

### Industrial grade flanged inlets & outlets



| Rating<br>A | V/AC | NEMA   | Description         | Color  | Flanged<br>inlet | Flanged<br>outlet        |   |   |
|-------------|------|--------|---------------------|--------|------------------|--------------------------|---|---|
| 30          | 480  | L16-30 | Standard industrial | BK     | □ AHL1630FI      | —                        | • | • |
|             |      |        | Standard industrial | BK & W | —                | □ AHL1630FO <sup>1</sup> | • | • |

<sup>1</sup>Only UL Listed and CSA Certified

### Accessories for L16-30 locking devices

| Description                                                                    | Catalog no. |   |   |
|--------------------------------------------------------------------------------|-------------|---|---|
| Neoprene weather protective boot for 4-W & 5-W plugs                           | □ BL1       | • |   |
| Neoprene weather protective boot for 4-W & 5-W connectors                      | □ BL2       | • |   |
| Diecast aluminum single receptacle cover, vertical mount, for FS/FD boxes      | □ 7420      | • | • |
| Glass-filled nylon flanged inlet/outlet cover, vertical mount, for 30A devices | □ WP2       | • | • |



BL1



BL2



7420



WP2

### Dimensional information:

C-76-C-78

### Plug & connector specification information:

L15-30: C-84

### Receptacle specification information:

L15-30: C-87

Isolated ground L15-30: C-87

### Flanged inlet & flanged outlet specification information:

L15-30: C-89

### Color information:

BK (Black), W (White)

|         |         |
|---------|---------|
| BK      | W       |
| (Black) | (White) |

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Indicates NAFTA compliant - Page Q-32



RoHS compliant - Page Q-32