

# Industrial grade L18-20 locking devices

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

## Description

NEMA L18-20 20A, 3Ø 120/208V/AC, 3P-4W



L18-20R L18-20P



AHL1820P



AHL1820C



AHL1820R



AHL1820FO

## 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 L18-20 Industrial Grade Locking Devices**

Catalog No.	Description	Amps	Volts	Color
<input type="checkbox"/> AHL1820P	Ultra grip plug, 3-phase	20	120/208	Black & white
<input type="checkbox"/> AHL1820C	Ultra grip connector, 3-phase	20	120/208	Black & white
<input type="checkbox"/> AHL1820R	Single receptacle, 3-phase	20	120/208	Black
<input type="checkbox"/> AHL1820FO	Flanged outlet, 3-phase	20	120/208	Black & white
<input type="checkbox"/> AHL1820FI	Flanged inlet, 3-phase	20	120/208	Black & white

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Powering Business Worldwide

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## Plug & Connector

NEMA L18-20 20A, 3Ø 120/208V/AC, 3P-4W

Table 2. Specifications

Catalog No.	NEMA L18-20 Plug & Connector
NEMA Config	NEMA L18-20
Wiring Type	Back wire
Environmental Specifications	<b>Flammability:</b> Meets UL94 requirements; V2 rated <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 <b>Current Interrupting:</b> Yes, at full-rated current <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 <b>Voltage Ratings:</b> Permanently marked on device

Table 3. Materials

Catalog No.	NEMA L18-20 Plug & Connector
NEMA Config	NEMA L18-20
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

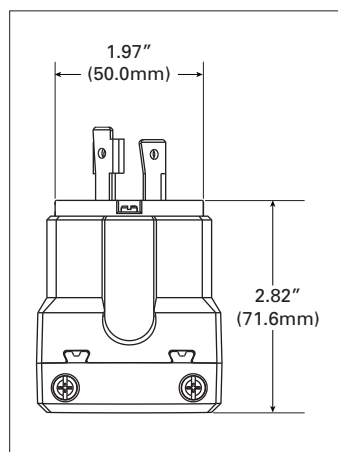


Figure 1. AHL1820P

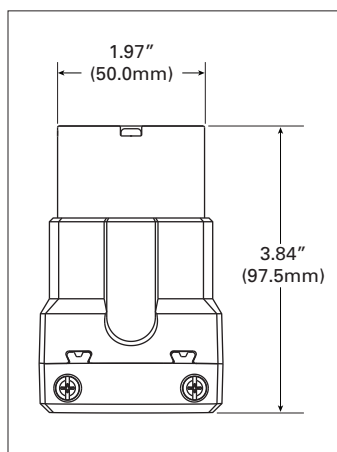


Figure 2. AHL1820C

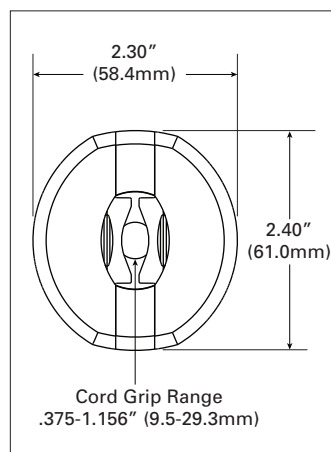


Figure 3. Base Angle

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## Single Receptacle

NEMA L18-20 20A, 3Ø 120/208V/AC, 3P-4W

Table 4. Specifications

Catalog No.	NEMA L18-20 Single Receptacle
NEMA Config	NEMA L18-20
Wiring Type	Back & side wire
Environmental Specifications	<b>Flammability:</b> Meets UL94 requirements; V0 rated <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 <b>Current Interrupting:</b> Yes, at full-rated current <b>Temperature Rise:</b> Max. 30°C (86°F) after 250 cycles of overload @ 200% of rated current (DC)
Mechanical Specifications	<b>Terminal Accommodation:</b> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device

Table 5. Materials

Catalog No.	NEMA L18-20 Single Receptacle
NEMA Config	NEMA L18-20
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

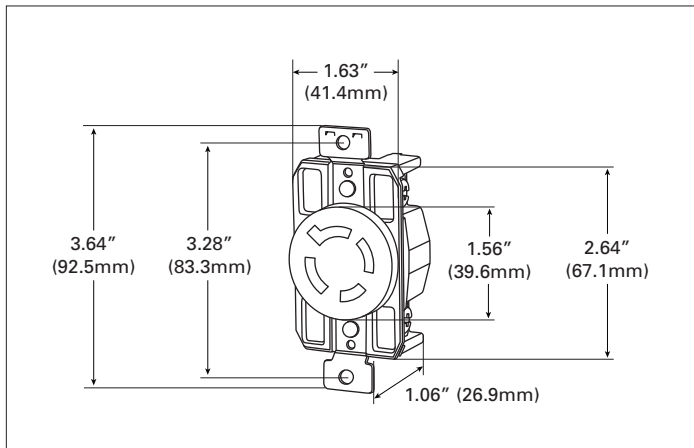


Figure 4. AHL1820R

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## Flanged Outlet & Inlet

NEMA L18-20 20A, 3Ø 120/208V/AC, 3P-4W

Table 6. Specifications

Catalog No.	NEMA L18-20 Flanged Outlet	NEMA L18-20 Flanged Inlet
<b>NEMA Config</b>	NEMA L18-20	NEMA L18-20
<b>Wiring Type</b>	Back wire	Back wire
<b>Environmental Specifications</b>	<b>Flammability:</b> Meets UL94 requirements; V2 rated <b>Temperature Rating:</b> -40°C to 60°C (-40°F to 140°F)	<b>Flammability:</b> Meets UL94 requirements; V2 rated <b>Temperature Rating:</b> -40°C to 60°C (-40°F to 140°F)
<b>Electrical Specifications</b>	<b>Dielectric Voltage:</b> ≤300V: 2000V, 301-600V: 3000V per UL498 <b>Current Interrupting:</b> Yes, at full-rated current <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 <b>Current Interrupting:</b> Yes, at full-rated current <b>Temperature Rise:</b> Max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)
<b>Mechanical Specifications</b>	<b>Terminal Accommodation:</b> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device	<b>Terminal Accommodation:</b> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device

Table 7. Materials

Catalog No.	NEMA L18-20 Flanged Outlet	NEMA L18-20 Flanged Inlet
<b>NEMA Config</b>	NEMA L18-20	NEMA L18-20
<b>Outer Shell</b>	Nylon	Nylon
<b>Interior Body</b>	Nylon	Nylon
<b>Terminal Retainer</b>	Polycarbonate	Polycarbonate
<b>Blades</b>	N/A	0.062" thick brass
<b>Line Contacts</b>	0.031" thick bronze	N/A
<b>Terminal Clamps</b>	Steel	Steel
<b>Terminal Screws</b>	#10-32 brass, nickel plated (neutral screw)	#10-32 brass, nickel plated (neutral screw)
<b>Ground Screw</b>	#10-32 brass (green)	#10-32 brass (green)
<b>Assembly Screws</b>	Steel, nickel plated	Steel, nickel plated
<b>Mounting Screws</b>	Steel, zinc plated	Steel, zinc plated

## Product Dimensions

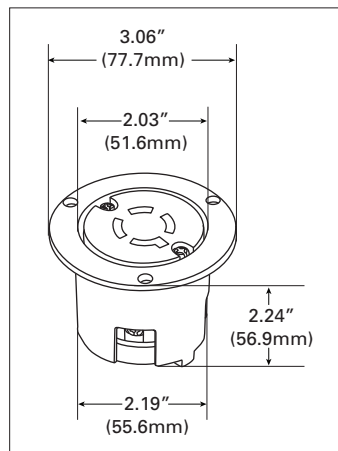


Figure 5. AHL1820FO

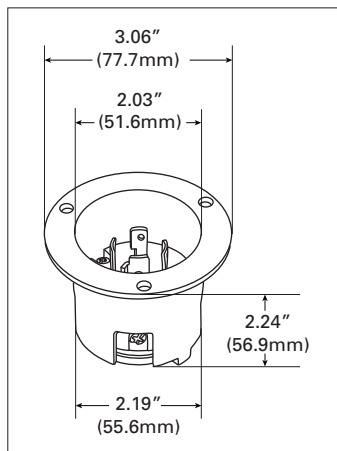


Figure 6. AHL1820FI

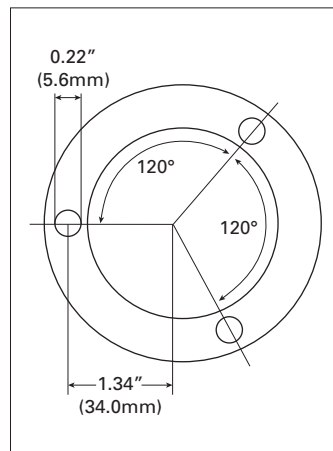


Figure 7. Top View







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Technical Data  
Effective January 2014

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**Certifications & Compliances**

Catalog No.						
AHL1820P	•			•	•	•
AHL1820C	•			•	•	•
AHL1820R		•	•	•	•	•
AHL1820FO		•				•
AHL1820FI	•			•		•

**KEY:**  cULus  UL  Fed Spec  NOM  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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