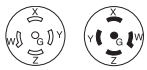
Arrow Hart color coded industrial grade L22-20 locking devices

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

Photography is for reference only.

Description

20A, 3ØY 277/480V/AC, 4-Pole, 5-Wire
NEMA L22-20
● = Red indicates 277/480 V/AC



L22-20R L22-20P

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 L22-20 Color Coded Industrial Grade Locking Devices

Catalog No.	Description	Amps	Volts	Color
☐ AHCL2220P	Color Coded ultra grip plug, 3-phase	20	277/480	Red & Black
☐ AHCL2220C	Color Coded ultra grip connector, 3-phase	20	277/480	Red & Black
☐ AHCL2220R	Color Coded single receptacle, 3-phase	20	277/480	Red & Black
☐ AHCL2220FO	Color Coded flanged outlet, 3-phase	20	277/480	Red & Black
☐ AHCL2220FI	Color Coded flanged inlet, 3-phase	20	277/480	Red & Black

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Powering Business Worldwide

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Applications

The new Eaton Arrow Hart color coded locking devices are designed specifically to improve safety and increase labor savings on the job site. Eaton's color coded locking devices are an industry-first solution that uses the six voltage rating color codes consistent with IEC 60309 standards for plugs, connectors, inlets/outlets and receptacles. Color coded locking devices are available in standard NEMA configurations for 20A and 30A applications. Plugs and connectors are built with a durable nylon shell and body to provide long lasting, dependable service in commercial and industrial environments–their ergonomic design has a comfortable feel, and the double dovetail cord clamps with reversible inserts provide secure cord retention over a full range of cord diameters.

Table 2. Specifications

Catalog No.	**AHCL2220 Series**		
Device Type	**Plugs & Connectors**	**Single Receptacles**	**Flanged Inlet & Outlet**
NEMA Config	NEMA L22-20	NEMA L22-20	NEMA L22-20
Wiring Type	Back wire	Back & side wire	Back wire
Environmental Specifications	**Flammability:** Meets UL94 requirements; V2 rated **Temperature Rating:** -40°C (w/o impact) to 60°C (-40°F to 140°F) -25°C (w/impact) to 60°C (-13°F to 140°F)	**Flammability:** Meets UL94 requirements; V0 rated **Temperature Rating:** -40°C to 70°C (-40°F to 158°F)	**Flammability:** Meets UL94 requirements; V2 rated **Temperature Rating:** -40°C (w/o impact) to 60°C (-40°F to 140°F) -25°C (w/impact) to 60°C (-13°F to 140°F)
Electrical Specifications	**Dielectric Voltage:** Twice the device rating + 1000V per UL498 **Current Interrupting:** Yes, at full-rated current **Temperature Rise:** Max. 30ºC (86°F) after 50 cycles of overload at 150% of rated current (DC)	**Dielectric Voltage:** ≤300V: 2000V, 301-600V: 3000V per UL498 **Current Interrupting:** Yes, at full-rated current **Temperature Rise:** Max. 30ºC (86°F) after 50 cycles of overload @ 150% of rated current (DC)	**Dielectric Voltage:** ≤300V: 2000V, 301-600V: 3000V per UL498 **Current Interrupting:** Yes, at full-rated current **Temperature Rise:** Max. 30ºC (86°F) after 50 cycles of overload @ 150% of rated current (DC) (w/o impact)
Mechanical Specifications	**Terminal Accommodation:** #14 - #8 AWG **Voltage Ratings:** Permanently marked on device	**Terminal Accommodation:** #14 - #8 AWG **Voltage Ratings:** Permanently marked on device	**Terminal Accommodation:** #14 - #8 AWG **Voltage Ratings:** Permanently marked on device

Table 3. Materials

Catalog No.	**AHCL2220 Series**		
Device Type	**Plugs & Connectors**	**Single Receptacles**	**Flanged Inlet & Outlet**
NEMA Config	NEMA L22-20	NEMA L22-20	NEMA L22-20
Outer Shell	Nylon	N/A	Nylon
Face	N/A	Glass-filled nylon	N/A
Base	N/A	Glass-filled nylon	N/A
Mounting Strap	N/A	0.050" thick steel, zinc plated	N/A
Interior Body	Nylon	N/A	Nylon
Terminal Retainer	Polycarbonate	N/A	Polycarbonate
Blades	Brass	N/A	0.062" thick brass (inlet only)
Line Contacts	Bronze, tin plated	0.041" thick brass	0.031" thick brass (outlet only)
Terminal Clamps/Plates	Steel, tin plated	0.041" thick brass	Steel
Ground Contact	N/A	0.041" thick brass	N/A
Back Plate	N/A	0.041" thick brass, nickel plated	N/A
Mounting Screws	N/A	Steel, zinc plated	Steel, zinc plated
Terminal Screws	#10-32 brass, zinc plated (neutral screw)	#10-32 brass, nickel plated (neutral screw)	#10-32 brass, nickel plated (neutral screw)
Ground Screw	#10-32 brass (green)	#10-32 brass (green)	#10-32 brass (green)
Assembly Screws	Steel, nickel plated	N/A	Steel, nickel plated
Gasket/Dust Shield	EPDM	N/A	N/A
Cord Clamp Screws	Steel, nickel plated	N/A	N/A
Cord Clamp	Nylon	N/A	N/A

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Product Dimensions

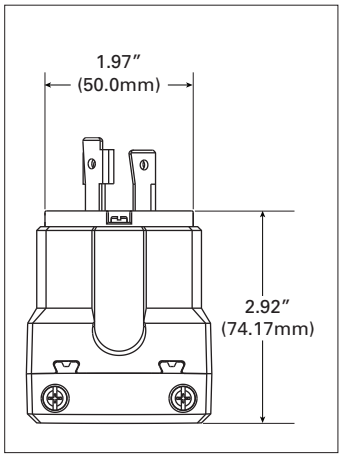

Figure 1. AHCL2220P

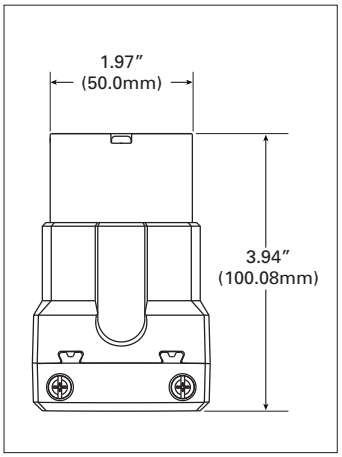

Figure 2. AHCL2220C

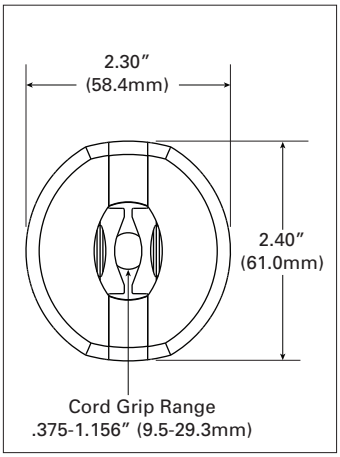

Figure 3. Base Angle

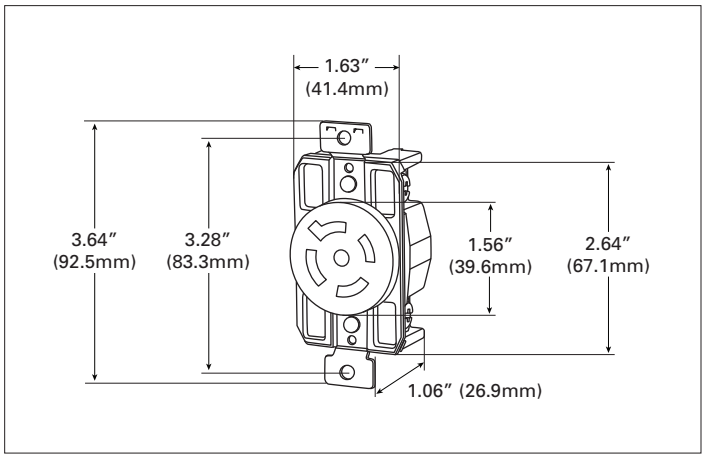

Figure 4. AHCL2220R

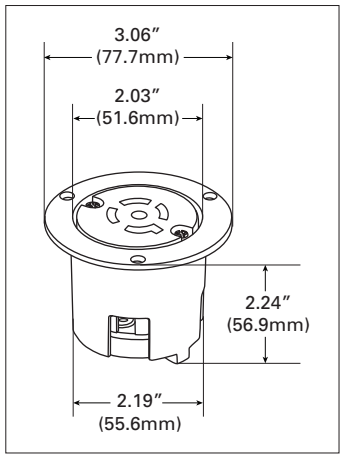

Figure 5. AHCL2220FOI

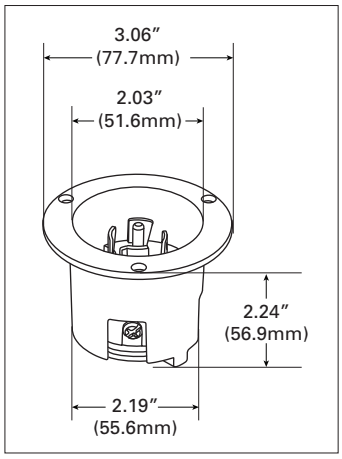

Figure 6. AHCL2220FI

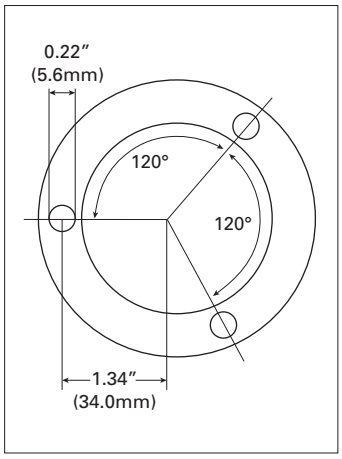

Figure 7. Top View

Arrow Hart color coded industrial grade L22-20 locking devices

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Certifications & Compliances

Catalog No.	cULus	UL	CSA	NOM	NAFTA	ROHS
AHCL2220P	•			•	•	•
AHCL2220C	•			•	•	•
AHCL2220R		•	•	•	•	•
AHCL2220FO	•			•	•	•
AHCL2220FI	•			•		•

KEY: cULus UL CSA 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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