Effective January 2014

# **Technical Data**

# Industrial grade L6-20 locking devices

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



AHL620P



AHL620C



AHL620R



AHL620FO

## Description

NEMA L6-20 20A, 250V/AC, 2P-3W



L6-20R L6-20P

## 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

ARROW/HART

- 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 receptacles**

- Rugged glass filled nylon body
- Clearly marked rating, NEMA configuration and approval listings on receptacle face
- One piece brass contacts offer superior performance and minimal 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 L6-20 Industrial Grade Locking Devices

Catalog No.	Description	Amps	Volts	Color
AHL620P	Ultra grip plug	20	250	Black & white
AHL620C	Ultra grip connector	20	250	Black & white
AHL620R	Single receptacle	20	250	Black
AHIGL620R	Single receptacle, isolated ground	20	250	Orange
AHL620FO	Flanged outlet	20	250	Black & white
AHL620FI	Flanged inlet	20	250	Black & white



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

# **Plug & Connector**

NEMA L6-20 20A, 250V/AC, 2P-3W

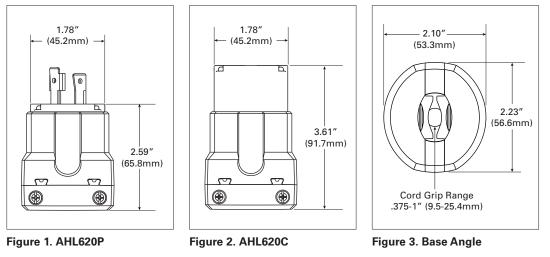
## Table 2. Specifications

Catalog No.	NEMA L6-20 Plug & Connector	
NEMA Config	NEMA L6-20	
Wiring Type	Back wire	
Environmental Specifications	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 60°C (-40°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. 30°C (86°F) after 50 cycles of overload at 150% of rated current		
Mechanical Specifications	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device	

## Table 3. Materials

Catalog No.	NEMA L6-20 Plug & Connector
NEMA Config	NEMA L6-20
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**



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

# **Single Receptacles**

NEMA L6-20 20A, 250V/AC, 2P-3W

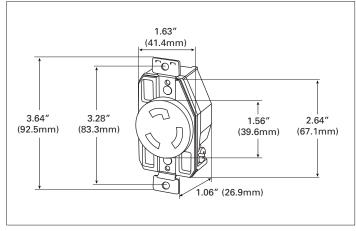
#### Table 4. Specifications

Catalog No.	NEMA L6-20 Single Receptacle	NEMA L6-20 Isolated Ground Single Receptacle
NEMA Config	NEMA L6-20	NEMA L6-20
Wiring Type	Back & side wire	Back & side wire
Environmental Specifications	Flammability: Meets UL94 requirements; VO rated Temperature Rating: -40°C to 60°C (-40°F to 140°F)	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -40°C to 60°C (-40°F to 158°F)
Electrical Specifications	Dielectric Voltage: <300V: 2000V, 301-600V: 3000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 250 cycles of overload @ 200% of rated current (DC)	Dielectric Voltage: ≤300V: 2000V, 301-600V: 3000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)
Mechanical Specifications	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device

## Table 5. Materials

Catalog No.	NEMA L6-20 Single Receptacle	NEMA L6-20 Isolated Ground Single Receptacle
NEMA Config	NEMA L6-20	NEMA L6-20
Face	Glass-filled nylon	Glass-filled nylon
Base	Glass-filled nylon	Glass-filled nylon
Mounting Strap	0.050" thick steel, zinc plated	0.050" thick steel, zinc plated
Line Contacts	0.041" thick brass	0.041" thick brass
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)
Terminal Clamps/Plates	0.041" thick brass	0.041" thick brass
Ground Contacts	0.041" thick brass	0.041" thick brass
Back Plate	0.041" thick brass, nickel plated	0.041" thick brass, nickel plated
Mounting Screws	Steel, zinc plated	Steel, zinc plated

## **Product Dimensions**



## Figure 4. AHL620R

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

# **Flanged Outlet & Inlet**

NEMA L6-20 20A, 250V/AC, 2P-3W

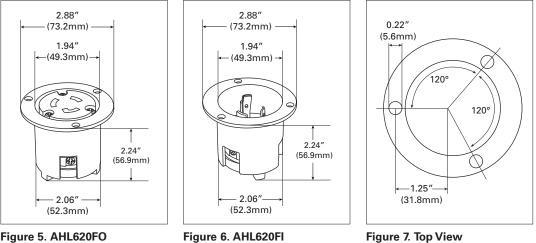
## Table 6. Specifications

Catalog No.	NEMA L6-20 Flanged Outlet	NEMA L6-20 Flanged Inlet
NEMA Config	NEMA L6-20	NEMA L6-20
Wiring Type	Back wire	Back wire
<b>Environmental Specifications</b>	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 60°C (-40°F to 140°F)	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 60°C (-40°F to 140°F)
Electrical Specifications	Dielectric Voltage: ≤300V: 2000V, 301-600V: 3000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (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. 30°C (86°F) @ maximum rated current (DC)
Mechanical Specifications	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device

## Table 7. Materials

Catalog No.	NEMA L6-20 Flanged Outlet	NEMA L6-20 Flanged Inlet
NEMA Config	NEMA L6-20	NEMA L6-20
Outer Shell	Nylon	Nylon
Interior Body	Nylon	Nylon
Terminal Retainer	Polycarbonate	Polycarbonate
Blades	N/A	0.062" thick brass
Line Contacts	0.031" thick bronze, tin plated	N/A
Terminal Clamps	Steel, tin plated	Steel, tin plated
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, nickel plated	Steel, nickel plated
Mounting Screws	Steel, zinc plated	Steel, zinc plated

## **Product Dimensions**



#### Figure 5. AHL620FO

Figure 6. AHL620FI

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

## **Certifications & Compliances**

AHL620C     •     •       AHL620R     •     •       AHIGL620R     •     •       AHIGL620R     •     •	Catalog No.	c (UL) us		€£-	F 🕕 S	NOM 426	4	
AHL620R     •     •     •       AHIGL620R     •     •     •       AHL620FO     •     •     •	AHL620P	•					•	•
AHIGL620R         •         •         •           AHL620F0         •         •         •         •	AHL620C	•					•	•
AHL620FO • • • •	AHL620R		•	٠	•	٠	•	•
	HIGL620R		•	•		•	•	•
AHL620FI • • •	AHL620FO		•	•			•	•
	AHL620FI	•					•	•
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🖉 Parts are manufactured and designed in accordance with article 4 of the European Union's RoHS2 directive 2011/65/EU

Compliances, specifications and availability are subject to change without notice.

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Effective January 2014

# **Technical Data**

# Industrial grade L6-20 locking devices

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



AHL620P



AHL620C



AHL620R



AHL620FO

## Description

NEMA L6-20 20A, 250V/AC, 2P-3W



L6-20R L6-20P

## 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

ARROW/HART

- 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 receptacles**

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- Clearly marked rating, NEMA configuration and approval listings on receptacle face
- One piece brass contacts offer superior performance and minimal heat rise
- · Back and side wiring terminal clamps for easy, secure wiring

## Design features for flanged inlet & outlet

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- Individual wiring compartments with tapered channel for easy insertion of wires

#### Table 1. NEMA L6-20 Industrial Grade Locking Devices

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AHL620P	Ultra grip plug	20	250	Black & white
AHL620C	Ultra grip connector	20	250	Black & white
AHL620R	Single receptacle	20	250	Black
AHIGL620R	Single receptacle, isolated ground	20	250	Orange
AHL620FO	Flanged outlet	20	250	Black & white
AHL620FI	Flanged inlet	20	250	Black & white



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

# **Plug & Connector**

NEMA L6-20 20A, 250V/AC, 2P-3W

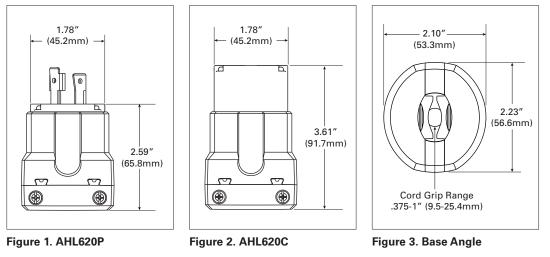
## Table 2. Specifications

Catalog No.	NEMA L6-20 Plug & Connector
NEMA Config	NEMA L6-20
Wiring Type	Back wire
Environmental Specifications	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 60°C (-40°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. 30°C (86°F) after 50 cycles of overload at 150% of rated current (DC)
Mechanical Specifications	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device

## Table 3. Materials

Catalog No.	NEMA L6-20 Plug & Connector
NEMA Config	NEMA L6-20
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**



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

# **Single Receptacles**

NEMA L6-20 20A, 250V/AC, 2P-3W

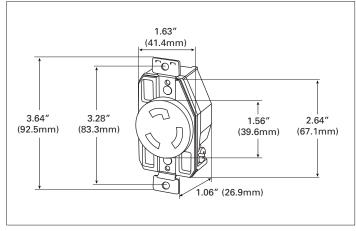
#### Table 4. Specifications

Catalog No.	NEMA L6-20 Single Receptacle	NEMA L6-20 Isolated Ground Single Receptacle
NEMA Config	NEMA L6-20	NEMA L6-20
Wiring Type	Back & side wire	Back & side wire
Environmental Specifications	Flammability: Meets UL94 requirements; VO rated Temperature Rating: -40°C to 60°C (-40°F to 140°F)	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -40°C to 60°C (-40°F to 158°F)
Electrical Specifications	Dielectric Voltage: <300V: 2000V, 301-600V: 3000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 250 cycles of overload @ 200% of rated current (DC)	Dielectric Voltage: ≤300V: 2000V, 301-600V: 3000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)
Mechanical Specifications	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device

## Table 5. Materials

Catalog No.	NEMA L6-20 Single Receptacle	NEMA L6-20 Isolated Ground Single Receptacle
NEMA Config	NEMA L6-20	NEMA L6-20
Face	Glass-filled nylon	Glass-filled nylon
Base	Glass-filled nylon	Glass-filled nylon
Mounting Strap	0.050" thick steel, zinc plated	0.050" thick steel, zinc plated
Line Contacts	0.041" thick brass	0.041" thick brass
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)
Terminal Clamps/Plates	0.041" thick brass	0.041" thick brass
Ground Contacts	0.041" thick brass	0.041" thick brass
Back Plate	0.041" thick brass, nickel plated	0.041" thick brass, nickel plated
Mounting Screws	Steel, zinc plated	Steel, zinc plated

## **Product Dimensions**



## Figure 4. AHL620R

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

# **Flanged Outlet & Inlet**

NEMA L6-20 20A, 250V/AC, 2P-3W

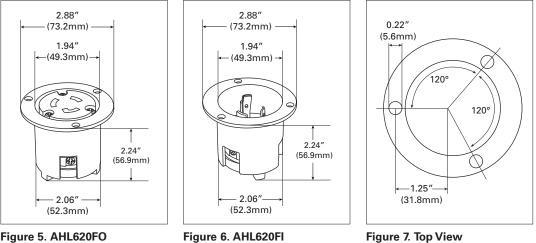
## Table 6. Specifications

Catalog No.	NEMA L6-20 Flanged Outlet	NEMA L6-20 Flanged Inlet
NEMA Config	NEMA L6-20	NEMA L6-20
Wiring Type	Back wire	Back wire
<b>Environmental Specifications</b>	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 60°C (-40°F to 140°F)	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 60°C (-40°F to 140°F)
Electrical Specifications	Dielectric Voltage: ≤300V: 2000V, 301-600V: 3000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (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. 30°C (86°F) @ maximum rated current (DC)
Mechanical Specifications	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #14 - #8 AWG Voltage Ratings: Permanently marked on device

## Table 7. Materials

Catalog No.	NEMA L6-20 Flanged Outlet	NEMA L6-20 Flanged Inlet
NEMA Config	NEMA L6-20	NEMA L6-20
Outer Shell	Nylon	Nylon
Interior Body	Nylon	Nylon
Terminal Retainer	Polycarbonate	Polycarbonate
Blades	N/A	0.062" thick brass
Line Contacts	0.031" thick bronze, tin plated	N/A
Terminal Clamps	Steel, tin plated	Steel, tin plated
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, nickel plated	Steel, nickel plated
Mounting Screws	Steel, zinc plated	Steel, zinc plated

## **Product Dimensions**



#### Figure 5. AHL620FO

Figure 6. AHL620FI

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

## **Certifications & Compliances**

Catalog No.		c (UL) us	(h)	۹Ð	F 🕕 S	NOM 426	4	
AHL620P		•					•	•
AHL620C		•					•	•
AHL620R			•	•	•	•	•	•
AHIGL620R			•	•		•	•	•
AHL620F0			•	•			•	•
AHL620FI		•					•	•
KEY:	c@Lus	cULu	IS	4	UL		۹Ð	CSA
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