

# Industrial grade L5-20 locking devices

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



AHL520P



AHL520C



AHL520R



AHL520FO

## Description

NEMA L5-20 20A, 125V/AC, 2P-3W



L5-20R



L5-20P

## 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 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 L5-20 Industrial Grade Locking Devices**

Catalog No.	Description	Amps	Volts	Color
<input type="checkbox"/> AHL520P	Ultra grip plug	20	125	Black & white
<input type="checkbox"/> AHL520PBK	Ultra grip plug	20	125	Black
<input type="checkbox"/> AHL520C	Ultra grip connector	20	125	Black & white
<input type="checkbox"/> AHL520CBK	Ultra grip connector	20	125	Black
<input type="checkbox"/> AHL520R	Single receptacle	20	125	Black
<input type="checkbox"/> AHIGL520R	Single receptacle, isolated ground	20	125	Orange
<input type="checkbox"/> AHL520FO	Flanged outlet	20	125	Black & white
<input type="checkbox"/> AHL520FI	Flanged inlet	20	125	Black & white

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Project Name:	Prepared By:
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Catalog Number:	Type:

## Plug & Connector

NEMA L5-20 20A, 125V/AC, 2P-3W

Table 2. Specifications

Catalog No.	NEMA L5-20 Plug & Connector
NEMA Config	NEMA L5-20
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) except flat cable: -40°C to 75°C (-40°F to 167°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> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device

Table 3. Materials

Catalog No.	NEMA L5-20 Plug & Connector
NEMA Config	NEMA L5-20
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

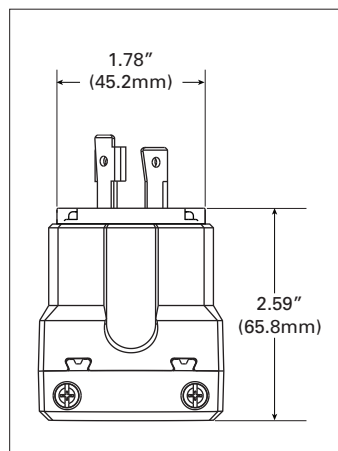


Figure 1. AHL520P

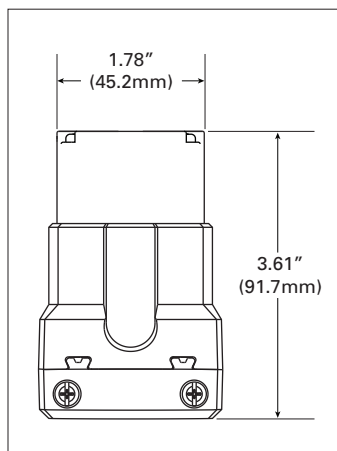


Figure 2. AHL520C

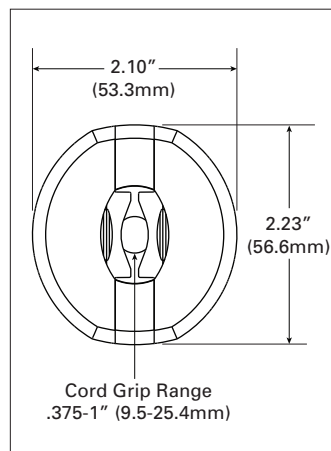


Figure 3. Base Angle

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Project Name:	Prepared By:
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## Single Receptacle

NEMA L5-20 20A, 125V/AC, 2P-3W

Table 4. Specifications

Catalog No.	NEMA L5-20 Single Receptacle
NEMA Config	NEMA L5-20
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 158°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 L5-20 Single Receptacle
NEMA Config	NEMA L5-20
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

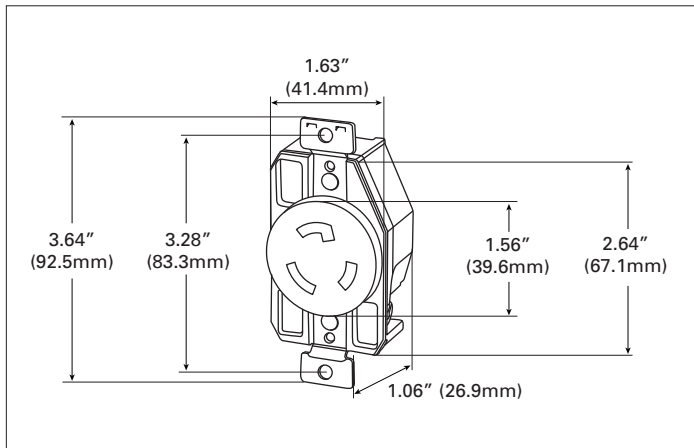


Figure 4. AHL520R

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

## Flanged Inlet & Outlet

NEMA L5-20 20A, 125V/AC, 2P-3W

Table 6. Specifications

<b>Catalog No.</b>	<b>NEMA L5-20 Flanged Inlet &amp; Outlet</b>
<b>NEMA Config</b>	NEMA L5-20
<b>Wiring Type</b>	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>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> Flanged outlets: max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC); flanged inlets; max. 30°C (86°F) @ maximum rated current (DC)
<b>Mechanical Specifications</b>	<b>Terminal Accommodation:</b> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device

Table 7. Materials

<b>Catalog No.</b>	<b>NEMA L5-20 Flanged Inlet &amp; Outlet</b>
<b>NEMA Config</b>	NEMA L5-20
<b>Outer Shell</b>	Nylon
<b>Interior Body</b>	Nylon
<b>Terminal Retainer</b>	Polycarbonate
<b>Blades</b>	0.062" thick brass
<b>Line Contacts</b>	0.031" thick bronze, tin plated
<b>Terminal Clamps</b>	Steel, tin plated
<b>Terminal Screws</b>	#10-32 brass, nickel plated (neutral screw)
<b>Ground Screw</b>	#10-32 brass (green)
<b>Assembly Screws</b>	Steel, nickel plated
<b>Mounting Screws</b>	Steel, zinc plated

## Product Dimensions

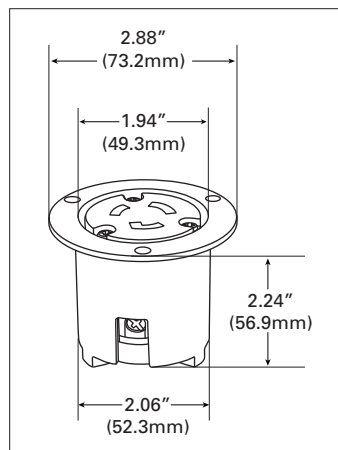


Figure 5. AHL520FO

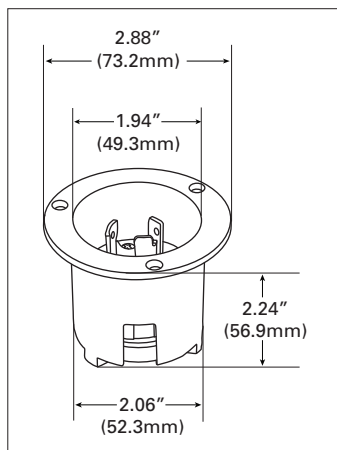


Figure 6. AHL520FI

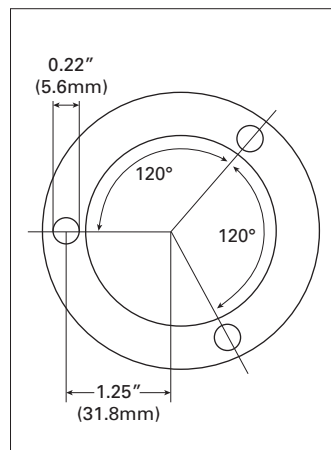
















Figure 7. Top View


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

Certifications & Compliances

Catalog No.							
AHL520P	•				•	•	•
AHL520PBK	•				•	•	•
AHL520C	•				•	•	•
AHL520CBK	•				•	•	•
AHL520R		•	•	•			•
AHIGL520R		•	•		•	•	•
AHL520FO		•	•			•	•
AHL520FI	•				•	•	•

**KEY:**  cULus  UL  CSA  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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# Industrial grade L5-20 locking devices

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



AHL520P



AHL520C



AHL520R



AHL520FO

## Description

NEMA L5-20 20A, 125V/AC, 2P-3W



L5-20R



L5-20P

## 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 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 L5-20 Industrial Grade Locking Devices**

Catalog No.	Description	Amps	Volts	Color
<input type="checkbox"/> AHL520P	Ultra grip plug	20	125	Black & white
<input type="checkbox"/> AHL520PBK	Ultra grip plug	20	125	Black
<input type="checkbox"/> AHL520C	Ultra grip connector	20	125	Black & white
<input type="checkbox"/> AHL520CBK	Ultra grip connector	20	125	Black
<input type="checkbox"/> AHL520R	Single receptacle	20	125	Black
<input type="checkbox"/> AHIGL520R	Single receptacle, isolated ground	20	125	Orange
<input type="checkbox"/> AHL520FO	Flanged outlet	20	125	Black & white
<input type="checkbox"/> AHL520FI	Flanged inlet	20	125	Black & white

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

## Plug & Connector

NEMA L5-20 20A, 125V/AC, 2P-3W

Table 2. Specifications

Catalog No.	NEMA L5-20 Plug & Connector
NEMA Config	NEMA L5-20
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) except flat cable: -40°C to 75°C (-40°F to 167°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> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device

Table 3. Materials

Catalog No.	NEMA L5-20 Plug & Connector
NEMA Config	NEMA L5-20
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

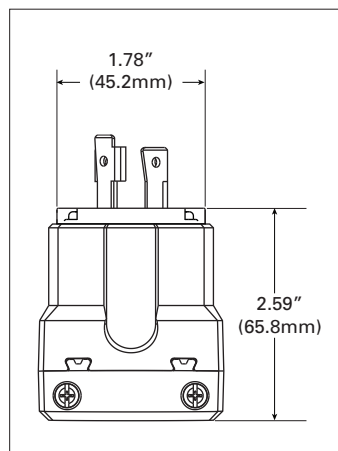


Figure 1. AHL520P

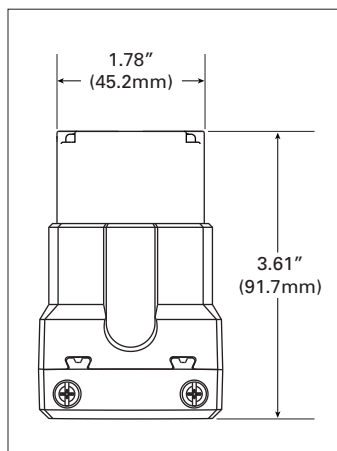


Figure 2. AHL520C

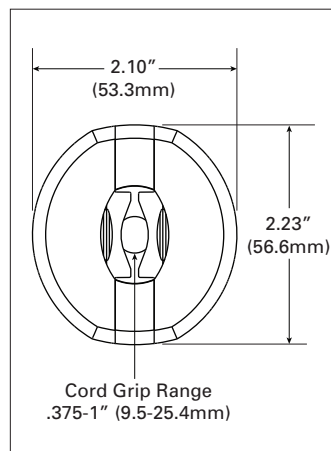


Figure 3. Base Angle

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

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

## Single Receptacle

NEMA L5-20 20A, 125V/AC, 2P-3W

Table 4. Specifications

Catalog No.	NEMA L5-20 Single Receptacle
NEMA Config	NEMA L5-20
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 158°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 L5-20 Single Receptacle
NEMA Config	NEMA L5-20
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

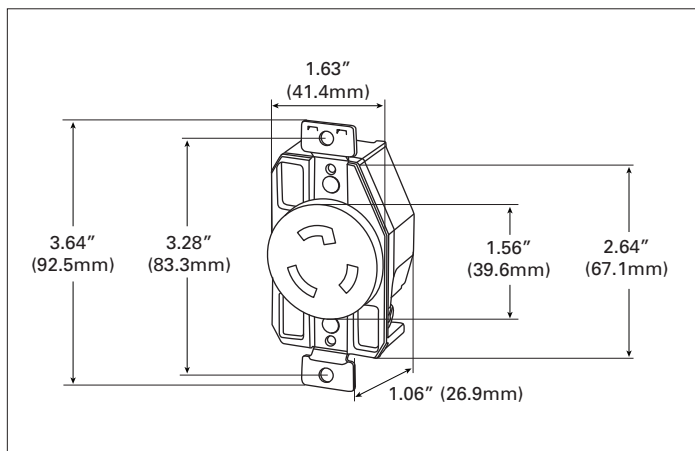


Figure 4. AHL520R

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



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

## Flanged Inlet & Outlet

NEMA L5-20 20A, 125V/AC, 2P-3W

Table 6. Specifications

<b>Catalog No.</b>	<b>NEMA L5-20 Flanged Inlet &amp; Outlet</b>
<b>NEMA Config</b>	NEMA L5-20
<b>Wiring Type</b>	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>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> Flanged outlets: max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC); flanged inlets; max. 30°C (86°F) @ maximum rated current (DC)
<b>Mechanical Specifications</b>	<b>Terminal Accommodation:</b> #14 - #8 AWG <b>Voltage Ratings:</b> Permanently marked on device

Table 7. Materials

<b>Catalog No.</b>	<b>NEMA L5-20 Flanged Inlet &amp; Outlet</b>
<b>NEMA Config</b>	NEMA L5-20
<b>Outer Shell</b>	Nylon
<b>Interior Body</b>	Nylon
<b>Terminal Retainer</b>	Polycarbonate
<b>Blades</b>	0.062" thick brass
<b>Line Contacts</b>	0.031" thick bronze, tin plated
<b>Terminal Clamps</b>	Steel, tin plated
<b>Terminal Screws</b>	#10-32 brass, nickel plated (neutral screw)
<b>Ground Screw</b>	#10-32 brass (green)
<b>Assembly Screws</b>	Steel, nickel plated
<b>Mounting Screws</b>	Steel, zinc plated

## Product Dimensions

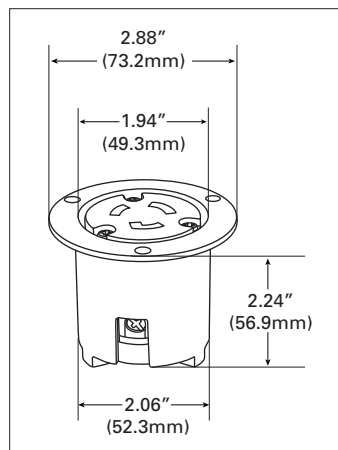


Figure 5. AHL520FO

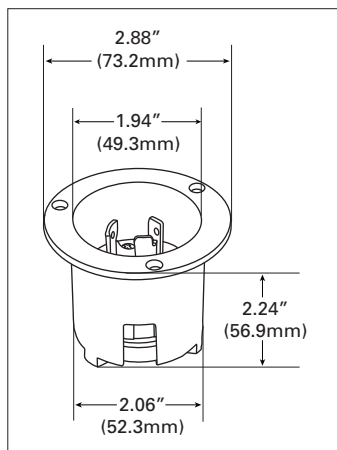


Figure 6. AHL520FI

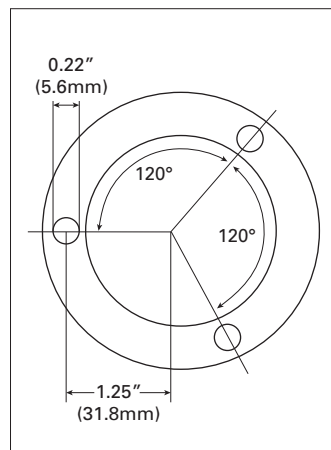
















Figure 7. Top View


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

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

## Certifications & Compliances

Catalog No.							
AHL520P	•				•	•	•
AHL520PBK	•				•	•	•
AHL520C	•				•	•	•
AHL520CBK	•				•	•	•
AHL520R		•	•	•			•
AHIGL520R		•	•		•	•	•
AHL520FO		•	•			•	•
AHL520FI	•				•	•	•

**KEY:**  cULus  UL  CSA  Fed Spec  NOM  NAFTA  ROHS

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