

# 30A & 32A IEC 309

## Watertight pin & sleeve devices

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



AH430R7W



AH430P9WDR



AH430C7W



AH330B7W

### Product Description - North American & International

30A & 32A;  
2-pole, 3-wire grounding;  
3-pole, 4-wire grounding;  
4-pole, 5-wire grounding

#### Pin & sleeve plugs features & benefits

- Products with a DR suffix are dual rated for International and North American amperages
- Mechanical cord clamp with silicone rubber grommet seal and locking screw ensures a positive and watertight strain relief system
- Tri-combo cord grip screws for convenience
- Durable impact resistant thermoplastic body
- Color-coded front housing for easy and accurate identification of voltages
- Oversized grounding pin assures mating only with oversized female grounding sleeve; staggered contact to ensure ground makes first and breaks last
- Engineered thermoplastic material improves cold impact performance for 60A & 100A devices
- Spring-loaded self-closing cap with silicone rubber gasket protects contacts when not in use. Watertight cap meets IP67 and IP69K protection standards
- Rugged materials selected for use in wet locations; provides corrosion resistance
- Standard mounting footprints and blind holes provide interchangeability with major brands
- Nickel plated pins offer long life corrosion protection
- Pins fully shrouded for mechanical protection; lockout hole for plugs
- Threaded NPT cable entry provides efficient means of attaching flexible conduit or wire mesh grips
- Tapered wiring pockets to ease insertion of stranded wire; deep pockets with clear markings keep bare conductors isolated





















































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

# EAT•N

Powering Business Worldwide

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

**Table 1. 30A & 32A Pin & sleeve devices for receptacles, plugs, connectors & inlets**

Poles/ wires	Rating A	V/AC, color coding & configurations	Receptacle catalog no.	Plug catalog no.	Connector catalog no.	Inlet catalog no.	15° Angled Receptacle catalog no.
2-P, 3-W	30	125	 AH330R4W	 AH330P4W	 AH330C4W	 AH330B4W	—
	30A/32A	250	 AH330R6WDR	 AH330P6WDR	 AH330C6WDR	 AH330B6WDR	—
	30A	480	 AH330R7W	 AH330P7W	 AH330C7W	 AH330B7W	—
3-P, 4-W	30A	125/250	 AH430R12W	 AH430P12W	 AH430C12W	 AH430B12W	—
	30A/32A	3Ø 250	 AH430R9WDR	 AH430P9WDR	 AH430C9WDR	 AH430B9WDR	—
	30A/32A	380-415V	 AH430R6WDR	 AH430P6WDR	 AH430C6WDR	 AH430B6WDR	—
	30A	3Ø 480	 AH430R7W	 AH430P7W	 AH430C7W	 AH430B7W	—
	30A	3Ø 600	 AH430R5W	 AH430P5W	 AH430C5W	 AH430B5W	—
	30A/32A	3ØY 120/208	 AH530R9WDR	 AH530P9WDR	 AH530C9WDR	 AH530B9WDR	—
4-P, 5-W	30A/32A	220/380 - 200/415	 AH530R6WDR	 AH530P6WDR	 AH530C6WDR	 AH530B6WDR	—
	30A	3ØY 277/480	 AH530R7W	 AH530P7W	 AH530C7W	 AH530B7W	—
	30A	3ØY 347/600	 AH530R5W	 AH530P5W	 AH530C5W	 AH530B5W	—
	30A	3ØY 347/600	 AH530R5W	 AH530P5W	 AH530C5W	 AH530B5W	—

Catalog numbers with a DR suffix are certified for dual rating at North American and International amperages

**Table 2. Ordering matrix**

**Pin & sleeve device  
sample number:**  
**AH430P7W**

**AH 4 30 P 7 W**

# of wires	Amperage	Pin & sleeve devices product type	Clock position of female grounding contact
3 = 3-wire	20 = 20 amps	P = Plug	3 = 380V/AC, 50Hz - 440V/AC, 60Hz
4 = 4-wire	30 = 30 amps	C = Connector	4 = 125V/AC
5 = 5-wire	60 = 60 amps	R = Receptacle	5 = 277V/AC or 3Ø 600V/AC or 3Ø 347/600V/AC
	100 = 100 amps	B = Inlet	6 = 250V/AC or 380-415V/AC or 220/380-240/415V/AC
			7 = 480V/AC or 3Ø 480V/AC or 3ØY 277/480V/AC
			9 = 380-415V/AC or 3Ø 250V/AC or 3ØY 120/208V/AC
			11 = 440-460V/AC, 60Hz
			12 = 125/250V/AC

**Note:**  
Exceptions for pin & sleeve devices:  
Not every clock face position available  
for each pole/amp/device combo.  
Consult your Eaton wiring devices  
representative for details.

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Catalog Number:	Type:

## Applications

Eaton's Arrow Hart series of Pin & Sleeve products have been expanded to include dual rating for both North American and European amperages. These products are ideal for the data center industry as customers now only need one part number to power server assemblies in the US and overseas. Our dual rated devices carry an IP69K rating and Arrow Hart's signature features that make installation fast and reliable. Arrow Hart's pin and sleeve devices were unlike other brands – our devices were the industry's first to offer IP69K rated protection. Each device has been carefully engineered to offer reliability, efficiency, and added safety protection in demanding wet locations, particularly where harsh washdowns are a must!

**Table 3. Specifications**

Device Type	30A & 32A pin & sleeve receptacles	30A & 32A pin & sleeve plugs	30A & 32A pin & sleeve connectors	30A & 32A pin & sleeve inlets
<b>Testing &amp; code compliance</b>	<b>Base device:</b> <ul style="list-style-type: none"> <li>Classified to IEC standards 60309-1 and 60309-2</li> <li>cULus listed to UL1682 &amp; UL1686 and CSA 22.2 no. 182.1</li> <li>Dual rated devices are TUV listed</li> </ul>	<b>Base device:</b> <ul style="list-style-type: none"> <li>Classified to IEC standards 60309-1 and 60309-2</li> <li>cULus listed to UL1682 &amp; UL1686 and CSA 22.2 no. 182.1</li> <li>Dual rated devices are TUV listed</li> </ul>	<b>Base device:</b> <ul style="list-style-type: none"> <li>Classified to IEC standards 60309-1 and 60309-2</li> <li>cULus listed to UL1682 &amp; UL1686 and CSA 22.2 no. 182.1</li> <li>Dual rated devices are TUV listed</li> </ul>	<b>Base device:</b> <ul style="list-style-type: none"> <li>Classified to IEC standards 60309-1 and 60309-2</li> <li>cULus listed to UL1682 &amp; UL1686 and CSA 22.2 no. 182.1</li> <li>Dual rated devices are TUV listed</li> </ul>
<b>Environmental specifications</b>	<b>Flammability:</b> Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) <b>Protection:</b> Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9	<b>Flammability:</b> Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) <b>Protection:</b> Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9	<b>Flammability:</b> Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) <b>Protection:</b> Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9	<b>Flammability:</b> Meets UL94 requirements; V2 rated (housing), V2 rated (contact carriers) <b>Protection:</b> Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9
<b>Electrical specifications</b>	<b>Dielectric voltage:</b> <300V:2000V - 1 minute. >300V:3000V - 1 minute <b>Maximum working voltage:</b> 600V (rms) <b>Current interrupting:</b> Yes, at full-rated current & voltage <b>Temperature rise:</b> Max. 30°C (86°F) after 50 cycles of overload @150% of rated current <b>Endurance:</b> <20A:5000 cycles >20A:1000 cycles	<b>Dielectric voltage:</b> 1000V plus 2x rated V - 1 minute <b>Maximum working voltage:</b> 600V (rms) <b>Current interrupting:</b> Yes, at full-rated current & voltage <b>Temperature rise:</b> Max. 30°C (86°F) after 50 cycles of overload @150% of rated current <b>Endurance:</b> <20A:5000 cycles >20A:1000 cycles	<b>Dielectric voltage:</b> 1000V plus 2x rated V - 1 minute <b>Maximum working voltage:</b> 600V (rms) <b>Current interrupting:</b> Yes, at full-rated current & voltage <b>Temperature rise:</b> Max. 30°C (86°F) after 50 cycles of overload @150% of rated current <b>Endurance:</b> <20A:5000 cycles >20A:1000 cycles	<b>Dielectric voltage:</b> <300V:2000V - 1 minute. >300V:3000V - 1 minute <b>Maximum working voltage:</b> 600V (rms) <b>Current interrupting:</b> Yes, at full-rated current & voltage <b>Temperature rise:</b> Max. 30°C (86°F) after 50 cycles of overload @150% of rated current <b>Endurance:</b> <20A:5000 cycles >20A:1000 cycles
<b>Mechanical Specifications</b>	<b>Voltage ratings:</b> Marked on device <b>Impact resistance:</b> UL1682 <b>Cable grip retention:</b> UL1682	<b>Voltage ratings:</b> Marked on device <b>Impact resistance:</b> UL1682 <b>Cable grip retention:</b> UL1682	<b>Voltage ratings:</b> Marked on device <b>Impact resistance:</b> UL1682 <b>Cable grip retention:</b> UL1682	<b>Voltage ratings:</b> Marked on device <b>Impact resistance:</b> UL1682 <b>Cable grip retention:</b> UL1682

**Table 4. Materials**

Device Type	30A & 32A pin & sleeve receptacles	30A & 32A pin & sleeve plugs	30A & 32A pin & sleeve connectors	30A & 32A pin & sleeve inlets
<b>Housing &amp; flange</b>	Nylon PA6-GF30	Nylon PA6-GF30	Nylon PA6-GF30	Nylon PA6
<b>Back body</b>	N/A	Nylon PA6-GF30	Nylon PA6-GF30	N/A
<b>Contact carrier</b>	Nylon PA6	Nylon PA6	Nylon PA6	Nylon PA6
<b>Sleeves</b>	Nickel plated brass	N/A	Nickel plated brass	N/A
<b>Contact spring on sleeves</b>	Nickel plated spring steel	N/A	Nickel plated spring steel	N/A
<b>Pins</b>	N/A	Nickel plated brass	N/A	Nickel plated brass
<b>External strain relief clamp</b>	N/A	Nylon PA6-GF30	Nylon PA6-GF30	N/A
<b>Cable seal</b>	N/A	Silicon rubber	Silicon rubber	N/A
<b>Support washer for cord grip</b>	N/A	Plated steel	Plated steel	N/A
<b>Cover</b>	Nylon PA6-GF30	N/A	Nylon PA6-GF30	N/A
<b>Hinge pin</b>	Nylon PA6-GF30	N/A	Nylon PA6-GF30	N/A
<b>Cover spring</b>	Stainless steel	N/A	Stainless steel	N/A
<b>Cover gasket</b>	Silicon rubber	N/A	Silicon rubber	N/A
<b>Flange gasket</b>	Silicon rubber	N/A	N/A	Silicon rubber
<b>Terminal screws</b>	Nickel plated steel	Nickel plated steel	Nickel plated steel	Nickel plated steel
<b>Assembly screws</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel

Project Name:	Prepared By:
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30A & 32A Receptacles

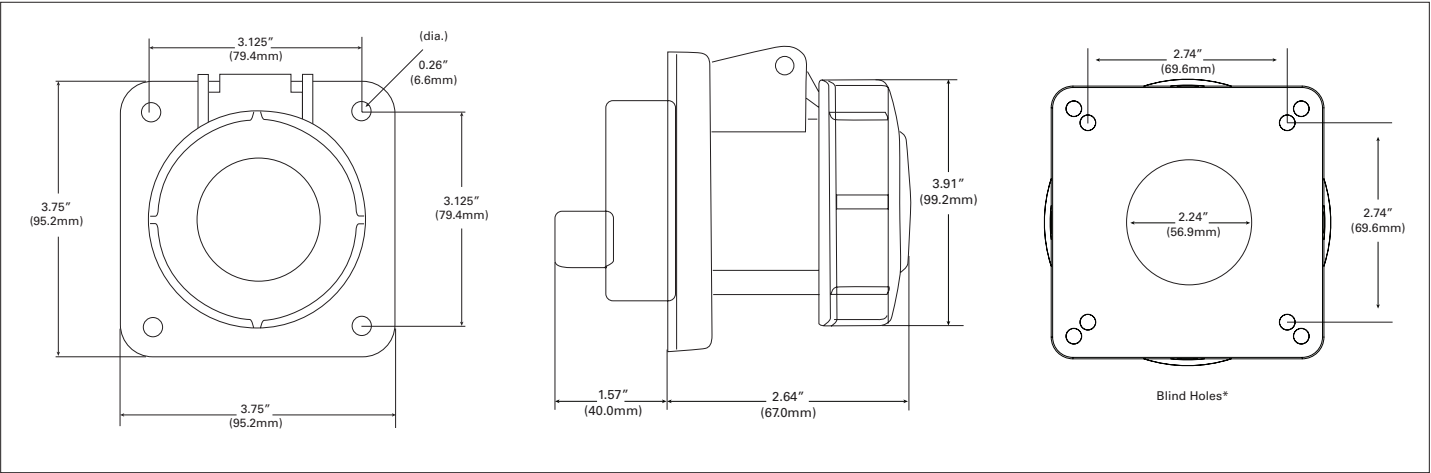


Figure 1. 30A & 32A 2-P, 3-W & 3-P, 4-W Receptacles, Front, Side & Back Views

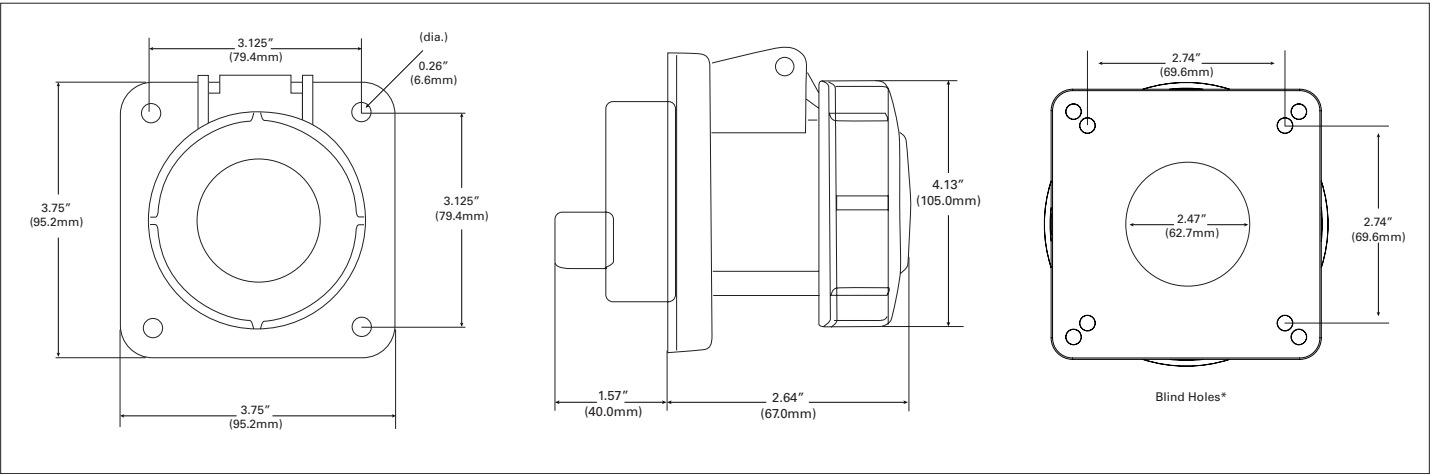


Figure 2. 30A & 32A 4-P, 5-W Receptacles, Front, Side & Back Views

Project Name:	Prepared By:
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## Product Dimensions

### 30A & 32A Plugs

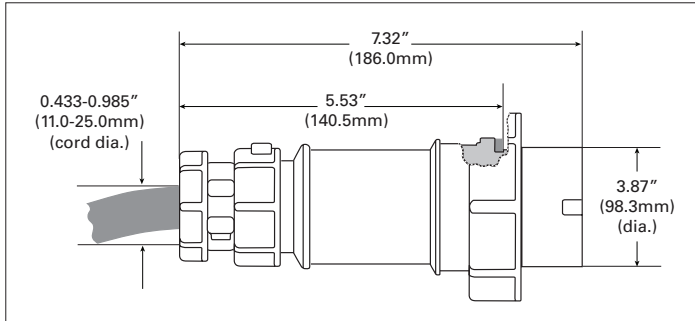


Figure 3. 30A & 32A 2-P, 3-W & 3-P, 4-W Plugs

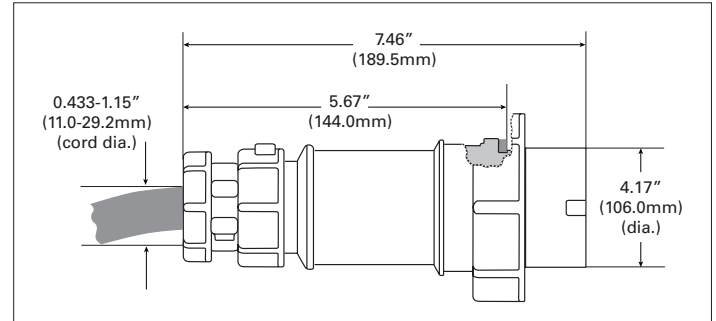


Figure 4. 30A & 32A 4-P, 5-W Plugs

### 30A & 32A Connectors

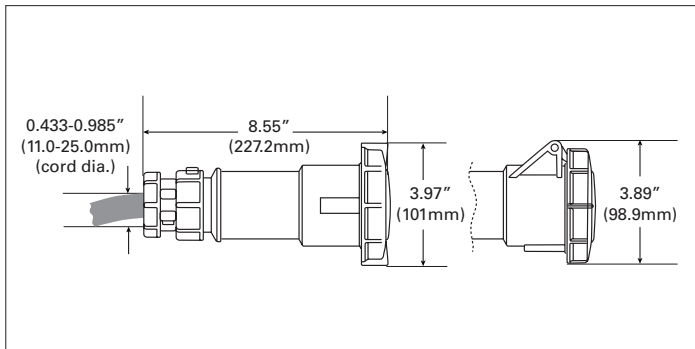


Figure 5. 30A & 32A 2-P, 3-W & 3-P, 4-W Underside & Side View Connectors

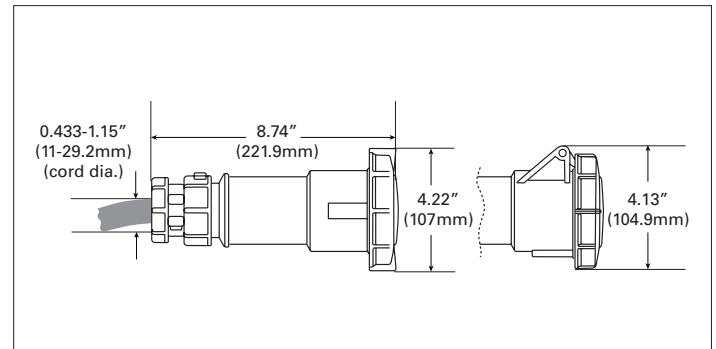


Figure 6. 30A & 32A 4-P, 5-W Underside & Side View Connectors

### 30A & 32A Inlets

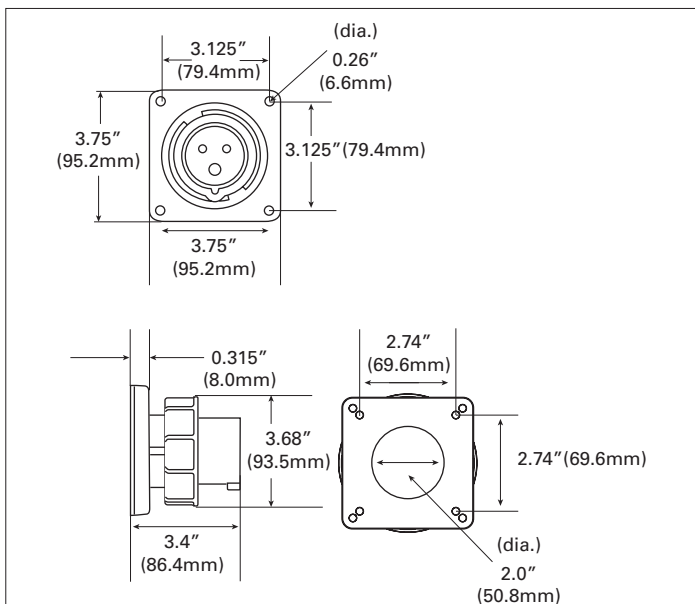


Figure 7. 30A & 32A 2-P, 3-W & 3-P, 4, Front, Side & Back View Inlets

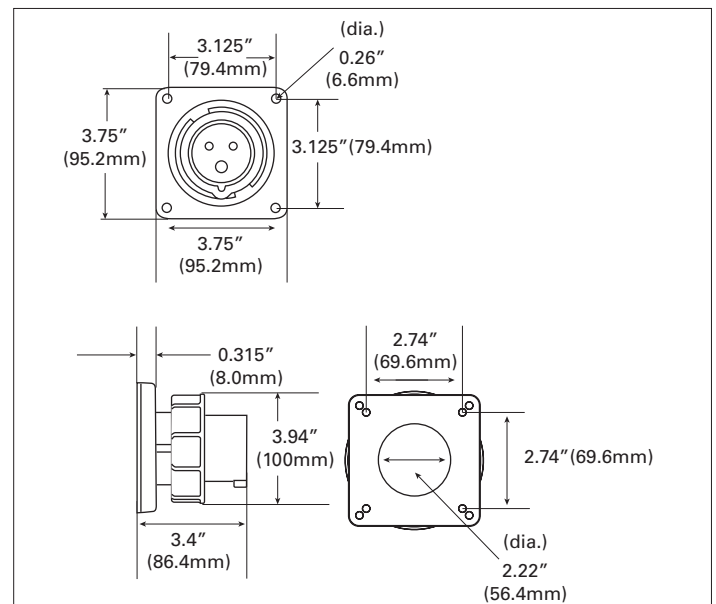








Figure 8. 30A & 32A 4-P, 5-W Front, Side & Back View Inlets

Project Name:	Prepared By:
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Certifications & Compliances

Catalog No.						
AH330R4W	AH330P4W	AH330C4W	AH330B4W	•	•	
AH330R6WDR	AH330P6WDR	AH330C6WDR	AH330B6WDR	•	•	•
AH330R7W	AH330P7W	AH330C7W	AH330B7W	•	•	
AH430R12W	AH430P12W	AH430C12W	AH430B12W	•	•	
AH430R9WDR	AH430P9WDR	AH430C9WDR	AH430B9WDR	•	•	•
AH430R6WDR	AH430P6WDR	AH430C6WDR	AH430B6WDR	•	•	•
AH430R7W	AH430P7W	AH430C7W	AH430B7W	•	•	
AH430R5W	AH430P5W	AH430C5W	AH430B5W	•	•	
AH530R9WDR	AH530P9WDR	AH530C9WDR	AH530B9WDR	•	•	•
AH530R6WDR	AH530P6WDR	AH530C6WDR	AH530B6WDR	•	•	•
AH530R7W	AH530P7W	AH530C7W	AH530B7W	•	•	
AH530R5W	AH530P5W	AH530C5W	AH530B5W	•	•	

KEY:  cULus  European conformity  TÜV Rheinland

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