

# Arrow Hart 100A & 125A IEC 309 Watertight pin & sleeve devices

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

## Product Description - North American & International

100A & 125A;  
 2-pole, 3-wire grounding;  
 3-pole, 4-wire grounding;  
 4-pole, 5-wire grounding

**IP69K**  
 certified



AH5100R7W



AH5100P9WDR



AH5100C9WDR



AH5100R5W



AH4100R12W-15

### 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
- 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.**



Powering Business Worldwide

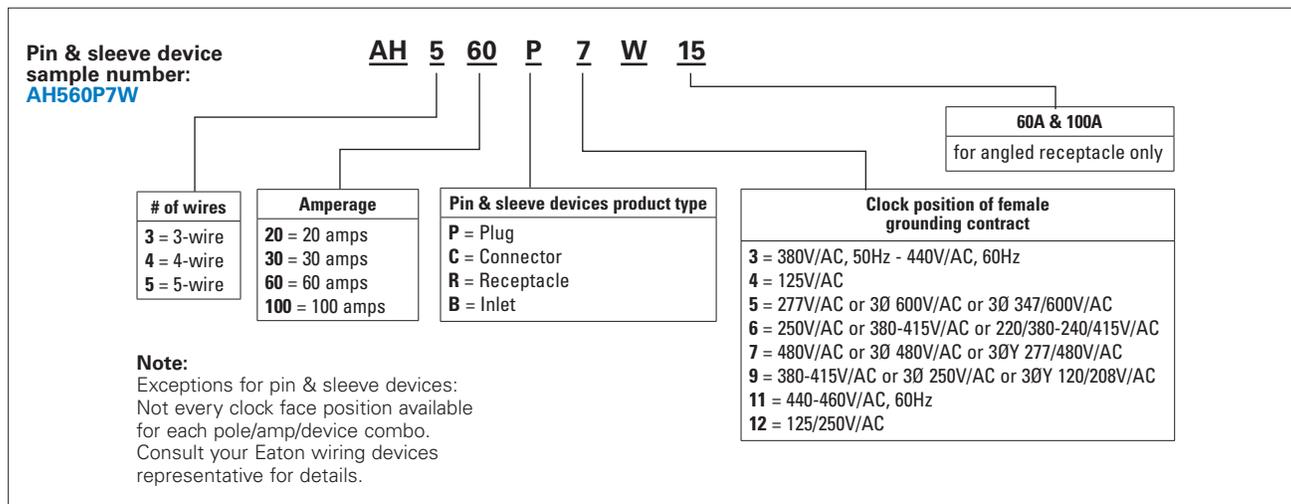
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**Table 1. 100A & 125A Pin & sleeve devices for receptacles, plugs, connectors & inlets**

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	100	125	AH3100R4W	AH3100P4W	AH3100C4W	AH3100B4W	—
	100A/125A	250	AH3100R6WDR	AH3100P6WDR	AH3100C6WDR	AH3100B6WDR	—
	100A	480	AH3100R7W	AH3100P7W	AH3100C7W	AH3100B7W	—
3-P, 4-W	100A	125/250	AH4100R12W	AH4100P12W	AH4100C12W	AH4100B12W	AH4100R12W-15
	100A/125A	3Ø 250	AH4100R9WDR	AH4100P9WDR	AH4100C9WDR	AH4100B9WDR	—
	100A/125A	380-415V	AH4100R6WDR	AH4100P6WDR	AH4100C6WDR	AH4100B6WDR	—
	100A	3Ø 480	AH4100R7W	AH4100P7W	AH4100C7W	AH4100B7W	AH4100R7W-15
	100A	3Ø 600	AH4100R5W	AH4100P5W	AH4100C5W	AH4100B5W	—
4-P, 5-W	100A/125A	3ØY 120/208	AH5100R9WDR	AH5100P9WDR	AH5100C9WDR	AH5100B9WDR	AH5100R9W-15
	100A/125A	220/380-200/415	AH5100R6WDR	AH5100P6WDR	AH5100C6WDR	AH5100B6WDR	—
	100A	3ØY 277/480	AH5100R7W	AH5100P7W	AH5100C7W	AH5100B7W	AH5100R7W-15
	100A	3ØY 347/600	AH5100R5W	AH5100P5W	AH5100C5W	AH5100B5W	—

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

**Table 2. Ordering matrix**



Project Name:	Prepared By:
Project Number:	Date:
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	100A and 125A pin & sleeve receptacles	100A and 125A pin & sleeve plugs	100A and 125A pin & sleeve connectors	100A and 125A 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), VO 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), VO 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), VO 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), VO 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> 3000V <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> 500 cycles	<b>Dielectric voltage:</b> 3000V <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> 500 cycles	<b>Dielectric voltage:</b> 3000V <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> 500 cycles	<b>Dielectric voltage:</b> 3000V <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> 500 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	100A and 125A pin & sleeve receptacles	100A and 125A pin & sleeve plugs	100A and 125A pin & sleeve connectors	100A and 125A pin & sleeve inlets
<b>Housing &amp; flange</b>	Nylon PA66	Nylon PA66	Nylon PA66	Nylon PA66
<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>	Nickel plated spring steel	N/A	Nickel plated spring 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

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## Product Dimensions

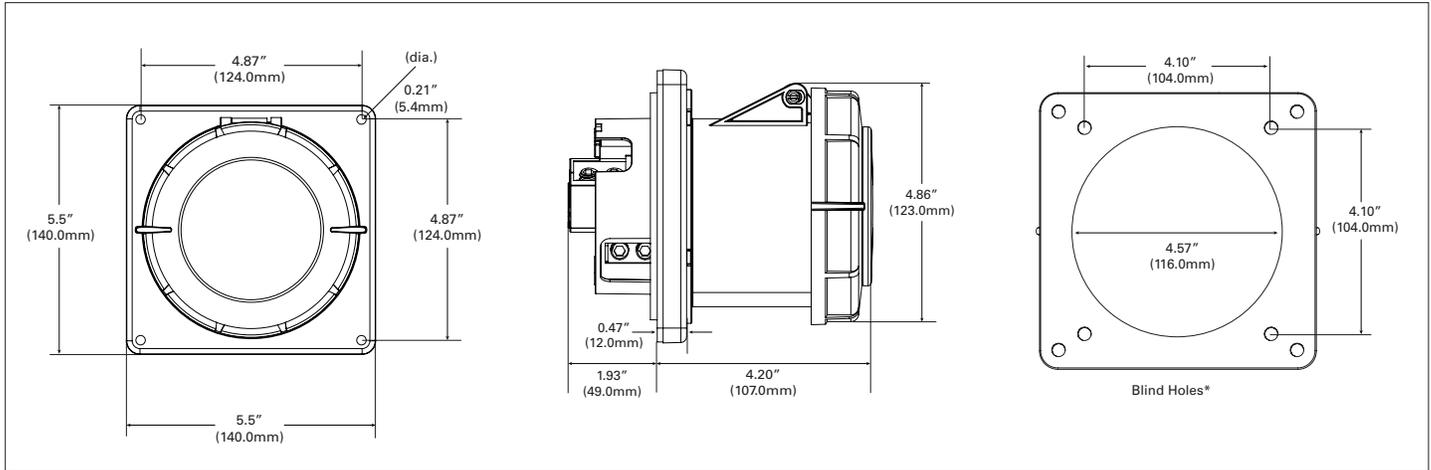


Figure 1. 100A and 125A Receptacles, Front, Side & Back Views

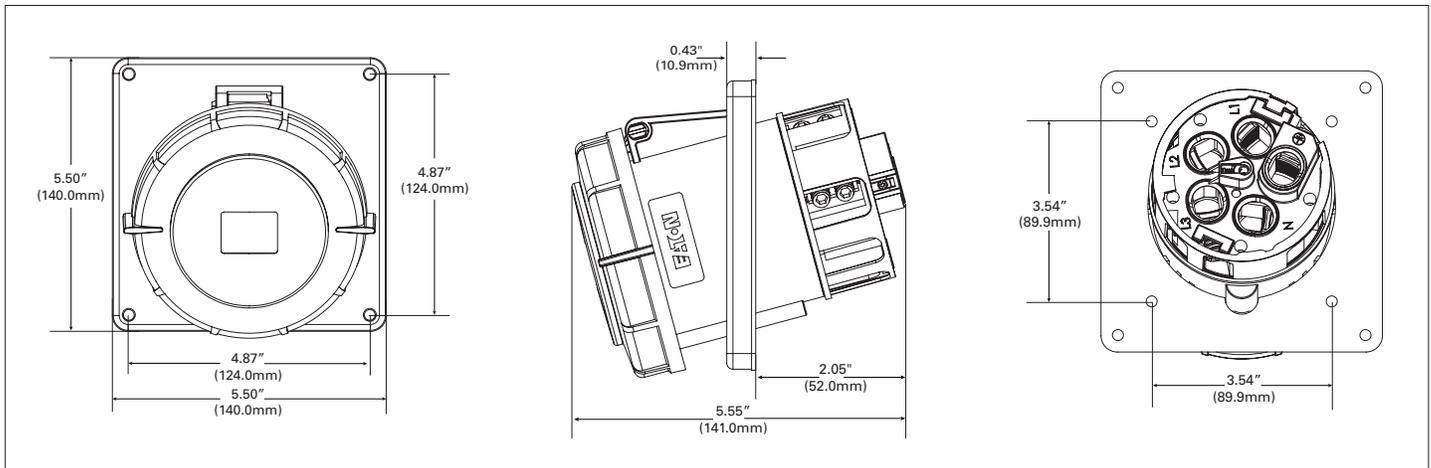


Figure 2. 100A and 125A Angled Receptacle, Front, Side & Back Views

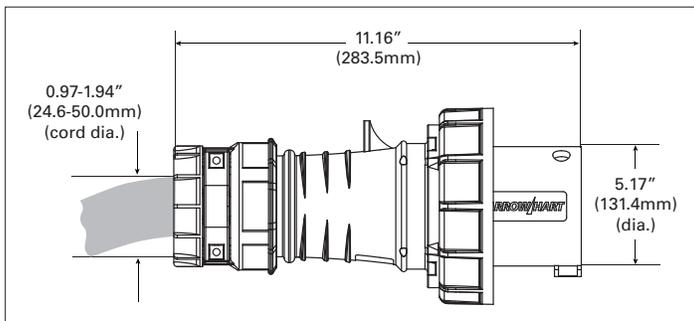


Figure 3. 100A and 125A Plugs, Side View

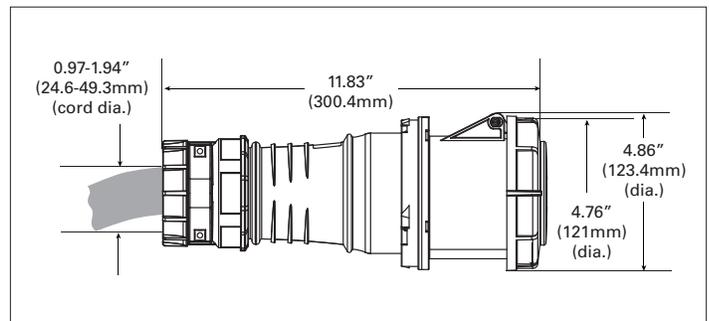


Figure 4. 100A and 125A Connectors, Side View

Project Name:	Prepared By:
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Catalog Number:	Type:

### Product Dimensions

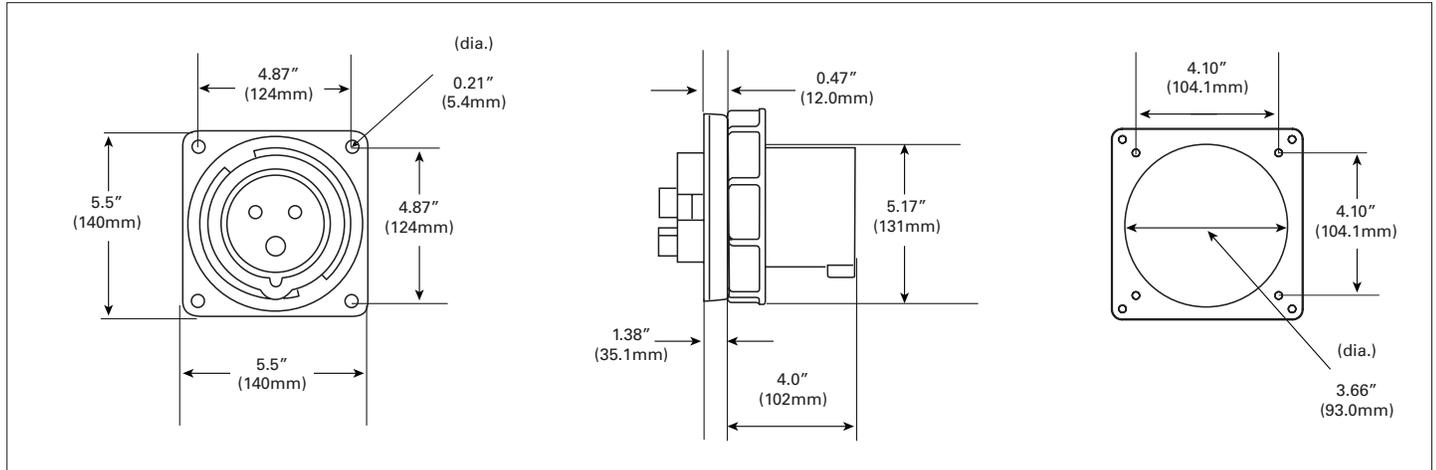


Figure 5. 100A Inlets Front, Side & Back View Inlets

### Certifications & Compliances

Catalog No.					cUL <sub>us</sub>	CE	TÜV
AH3100R4W	AH3100P4W	AH3100C4W	AH3100B4W	—	•	•	•
AH3100R6WDR	AH3100P6WDR	AH3100C6WDR	AH3100B6WDR	—	•	•	•
AH3100R7W	AH3100P7W	AH3100C7W	AH3100B7W	—	•	•	•
AH4100R12W	AH4100P12W	AH4100C12W	AH4100B12W	AH4100R12W-15	•	•	•
AH4100R9WDR	AH4100P9WDR	AH4100C9WDR	AH4100B9WDR	—	•	•	•
AH4100R6WDR	AH4100P6WDR	AH4100C6WDR	AH4100B6WDR	—	•	•	•
AH4100R7W	AH4100P7W	AH4100C7W	AH4100B7W	AH4100R7W-15	•	•	•
AH4100R5W	AH4100P5W	AH4100C5W	AH4100B5W	—	•	•	•
AH5100R9WDR	AH5100P9WDR	AH5100C9WDR	AH5100B9WDR	AH5100R9W-15	•	•	•
AH5100R6WDR	AH5100P6WDR	AH5100C6WDR	AH5100B6WDR	—	•	•	•
AH5100R7W	AH5100P7W	AH5100C7W	AH5100B7W	AH5100R7W-15	•	•	•
AH5100R5W	AH5100P5W	AH5100C5W	AH5100B5W	—	•	•	•

KEY: cUL<sub>us</sub> cULus CE European conformity TÜV Rheinland

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