

60A & 100A IEC 309

Watertight pin & sleeve devices

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

Product Description - North American

60A & 100A;
2-pole, 3-wire grounding;
3-pole, 4-wire grounding;
4-pole, 5-wire grounding



AH560R7W



AH560P9W



AH560C9W



AH560B9W



AH560R9W-15

Pin & sleeve plugs features & benefits

- 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.

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Table 1. 60A & 100A Pin & sleeve devices for receptacles, plugs, connectors & inlets

Rating A	Poles/ wires	V/AC, color coding & configurations	Receptacle catalog no.	Plug catalog no.	Connector catalog no.	Inlet catalog no.	15° Angled Receptacle catalog no.
60	2-P, 3-W	125	AH360R4W	AH360P4W	AH360C4W	AH360B4W	—
		250	AH360R6W	AH360P6W	AH360C6W	AH360B6W	—
		480	AH360R7W	AH360P7W	AH360C7W	AH360B7W	—
	3-P, 4-W	125/250	AH460R12W	AH460P12W	AH460C12W	AH460B12W	—
		3Ø 250	AH460R9W	AH460P9W	AH460C9W	AH460B9W	—
		3Ø 480	AH460R7W	AH460P7W	AH460C7W	AH460B7W	—
		3Ø 600	AH460R5W	AH460P5W	AH460C5W	AH460B5W	—
	4-P, 5-W	3ØY 120/208	AH560R9W	AH560P9W	AH560C9W	AH560B9W	AH560R9W-15
		3ØY 277/480	AH560R7W	AH560P7W	AH560C7W	AH560B7W	—
		3ØY 347/600	AH560R5W	AH560P5W	AH560C5W	AH560B5W	—
100	2-P, 3-W	125	AH3100R4W	AH3100P4W	AH3100C4W	AH3100B4W	—
		250	AH3100R6W	AH3100P6W	AH3100C6W	AH3100B6W	—
		480	AH3100R7W	AH3100P7W	AH3100C7W	AH3100B7W	—
	3-P, 4-W	125/250	AH4100R12W	AH4100P12W	AH4100C12W	AH4100B12W	AH4100R12W-15
		3Ø 250	AH4100R9W	AH4100P9W	AH4100C9W	AH4100B9W	—
		3Ø 480	AH4100R7W	AH4100P7W	AH4100C7W	AH4100B7W	AH4100R7W-15
		3Ø 600	AH4100R5W	AH4100P5W	AH4100C5W	AH4100B5W	—
	4-P, 5-W	3ØY 120/208	AH5100R9W	AH5100P9W	AH5100C9W	AH5100B9W	AH5100R9W-15
		3ØY 277/480	AH5100R7W	AH5100P7W	AH5100C7W	AH5100B7W	AH5100R7W-15
		3ØY 347/600	AH5100R5W	AH5100P5W	AH5100C5W	AH5100B5W	—

Table 2. Ordering matrix

**Pin & sleeve device
sample number:**
AH560P7W

AH

5

60

P

7

W

15

of wires

3 = 3-wire

4 = 4-wire

5 = 5-wire

Amperage

20 = 20 amps

30 = 30 amps

60 = 60 amps

100 = 100 amps

Pin & sleeve devices product type

P = Plug

C = Connector

R = Receptacle

B = Inlet

Clock position of female
grounding contact

3 = 380V/AC, 50Hz - 440V/AC, 60Hz

4 = 125V/AC

5 = 277V/AC or 3Ø 600V/AC or 3Ø 347/600V/AC

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.

60A & 100A

for angled receptacle only

Applications

The industry's first pin & sleeve devices that are designed to address high pressure, high temperature washdown applications. Arrow Hart's pin and sleeve devices are unlike other brands - our devices are 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!

2

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

Table 3. Specifications

Device Type	60A pin & sleeve receptacles	60A pin & sleeve plugs	60A pin & sleeve connectors	60A pin & sleeve inlets
Testing & code compliance	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1
Environmental specifications	Flammability: Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) Protection: Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9	Flammability: Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) Protection: Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9	Flammability: Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) Protection: Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9	Flammability: Meets UL94 requirements; HB rated (housing), V0 rated (contact carriers) Protection: Watertight to IP67 per IEC 60529 & IP69K to DIN 40050 Part 9
Electrical specifications	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 2000 cycles	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 2000 cycles	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 2000 cycles	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 2000 cycles
Mechanical Specifications	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682

Table 4. Materials

Device Type	60A pin & sleeve receptacles	60A pin & sleeve plugs	60A pin & sleeve connectors	60A pin & sleeve inlets
Housing & flange	Nylon PA6	Nylon PA6	Nylon PA6	Nylon PA6
Back body	N/A	Nylon PA6-GF30	Nylon PA6-GF30	N/A
Contact carrier	Nylon PA6	Nylon PA6	Nylon PA6	Nylon PA6
Sleeves	Nickel plated brass	N/A	Nickel plated brass	N/A
Contact spring on sleeves	Nickel plated spring steel	N/A	Nickel plated spring steel	N/A
Pins	N/A	Nickel plated brass	N/A	Nickel plated brass
External strain relief clamp	N/A	Nylon PA6-GF30	Nylon PA6-GF30	N/A
Cable seal	N/A	Silicon rubber	Silicon rubber	N/A
Support washer for cord grip	N/A	Plated steel	Plated steel	N/A
Cover	N/A	Nylon PA6-GF30	N/A	Nylon PA6-GF30
Hinge pin	Nylon PA6-GF30	N/A	Nylon PA6-GF30	N/A
Cover spring	Nickel plated spring steel	N/A	Nickel plated spring steel	N/A
Cover gasket	Silicon rubber	N/A	Silicon rubber	N/A
Flange gasket	Silicon rubber	N/A	N/A	Silicon rubber
Terminal screws	Nickel plated steel	Nickel plated steel	Nickel plated steel	Nickel plated steel
Assembly screws	Stainless steel	Stainless steel	Stainless steel	Stainless steel

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

Table 5. Specifications

Device Type	100A pin & sleeve receptacles	100A pin & sleeve plugs	100A pin & sleeve connectors	100A pin & sleeve inlets
Testing & code compliance	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1	Base device: - Classified to IEC standards 60309-1 and 60309-2 - cULus listed to UL1682 & UL1686 and CSA 22.2 no. 182.1
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Electrical specifications	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 500 cycles	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 500 cycles	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 500 cycles	Dielectric voltage: 3000V Maximum working voltage: 600V (rms) Current interrupting: Yes, at full-rated current & voltage Temperature rise: Max. 30°C (86°F) after 50 cycles of overload @150% of rated current Endurance: 500 cycles
Mechanical Specifications	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682	Voltage ratings: Marked on device Impact resistance: UL1682 Cable grip retention: UL1682

Table 6. Materials

Device Type	100A pin & sleeve receptacles	100A pin & sleeve plugs	100A pin & sleeve connectors	100A pin & sleeve inlets
Housing & flange	Nylon PA66	Nylon PA66	Nylon PA66	Nylon PA66
Back body	N/A	Nylon PA6-GF30	Nylon PA6-GF30	N/A
Contact carrier	Nylon PA6	Nylon PA6	Nylon PA6	Nylon PA6
Sleeves	Nickel plated brass	N/A	Nickel plated brass	N/A
Contact spring on sleeves	Nickel plated spring steel	N/A	Nickel plated spring steel	N/A
Pins	N/A	Nickel plated brass	N/A	Nickel plated brass
External strain relief clamp	N/A	Nylon PA6-GF30	Nylon PA6-GF30	N/A
Cable seal	N/A	Silicon rubber	Silicon rubber	N/A
Support washer for cord grip	N/A	Plated steel	Plated steel	N/A
Cover	Nylon PA6-GF30	N/A	Nylon PA6-GF30	N/A
Hinge pin	Nylon PA6-GF30	N/A	Nylon PA6-GF30	N/A
Cover spring	Nickel plated spring steel	N/A	Nickel plated spring steel	N/A
Cover gasket	Silicon rubber	N/A	Silicon rubber	N/A
Flange gasket	Silicon rubber	N/A	N/A	Silicon rubber
Terminal screws	Nickel plated steel	Nickel plated steel	Nickel plated steel	Nickel plated steel
Assembly screws	Stainless steel	Stainless steel	Stainless steel	Stainless steel

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

Product Dimensions

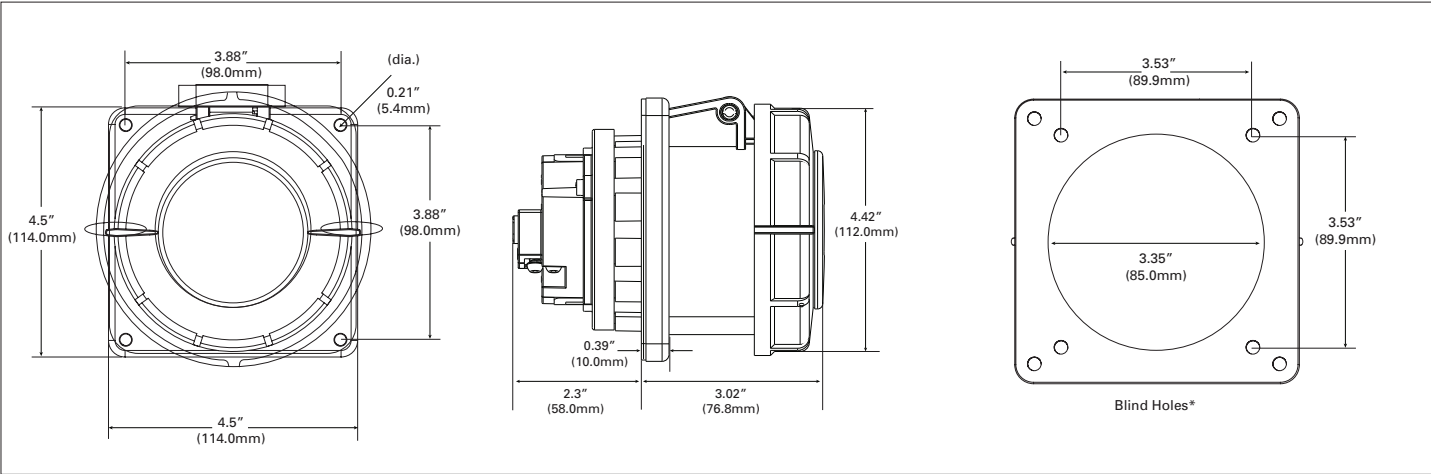


Figure 1. 60A Receptacles, Front, Side & Back Views

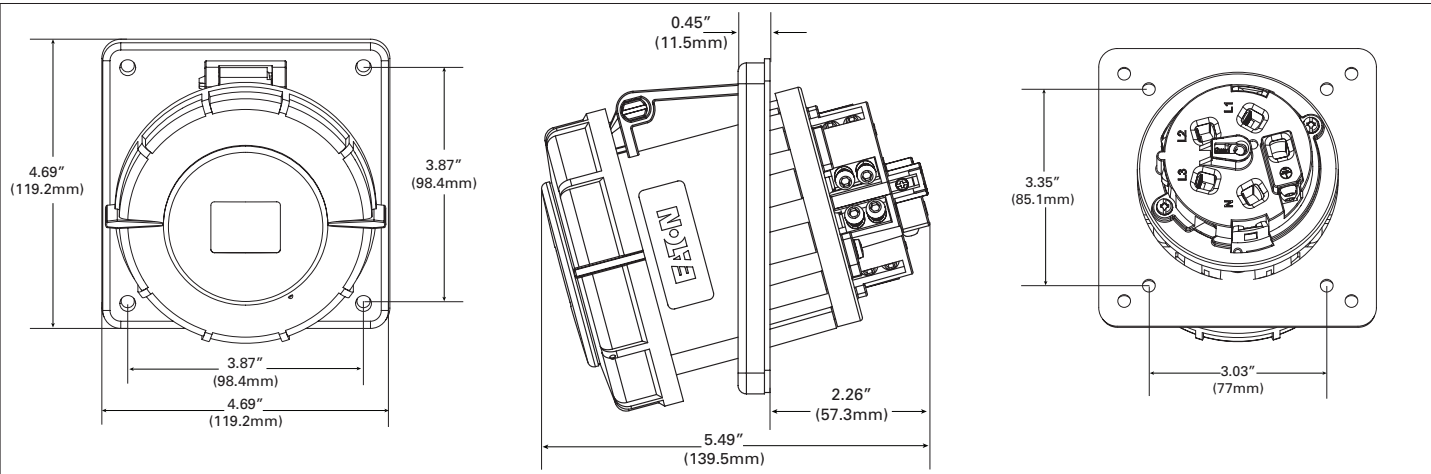


Figure 2. 60A Angled Receptacles, Front, Side & Back Views

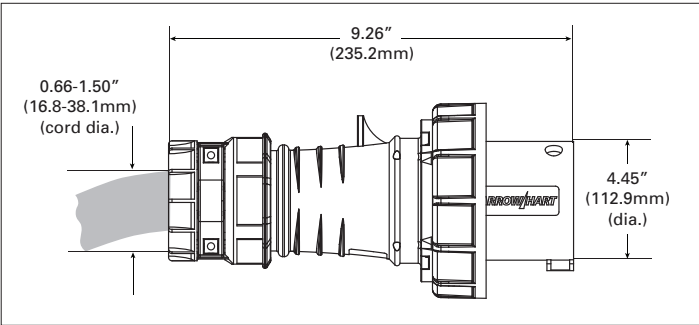


Figure 3. 60A Plugs, Side View

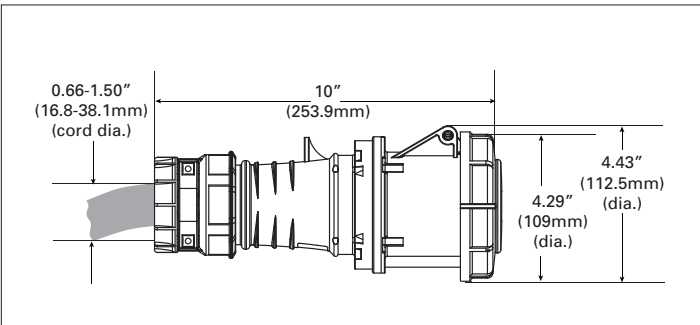


Figure 4. 60A Connectors, Side View

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

Product Dimensions

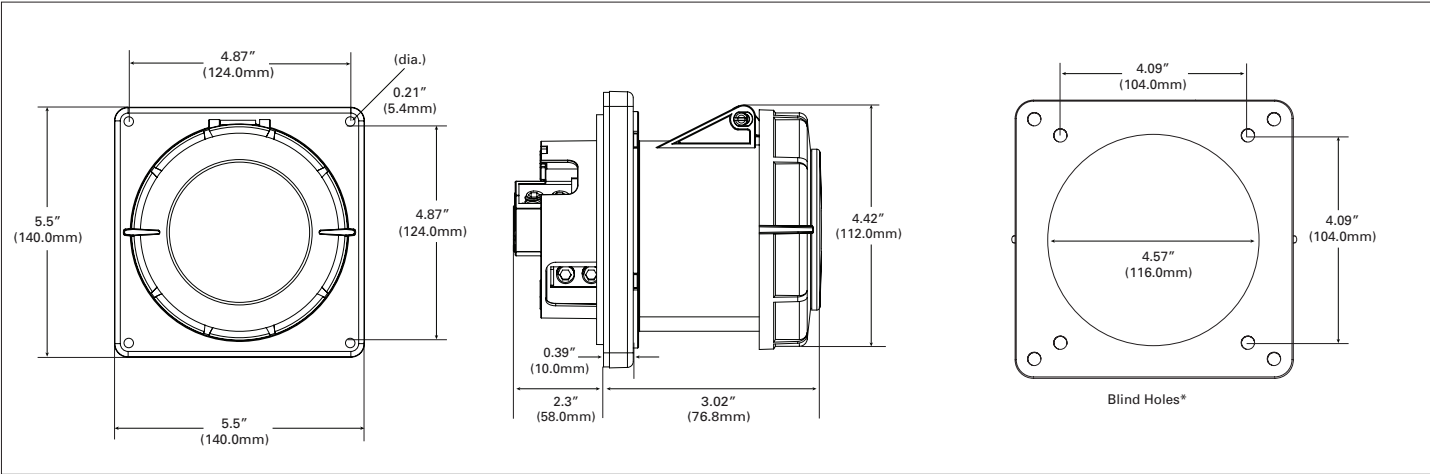


Figure 5. 100A Receptacles, Front, Side & Back Views

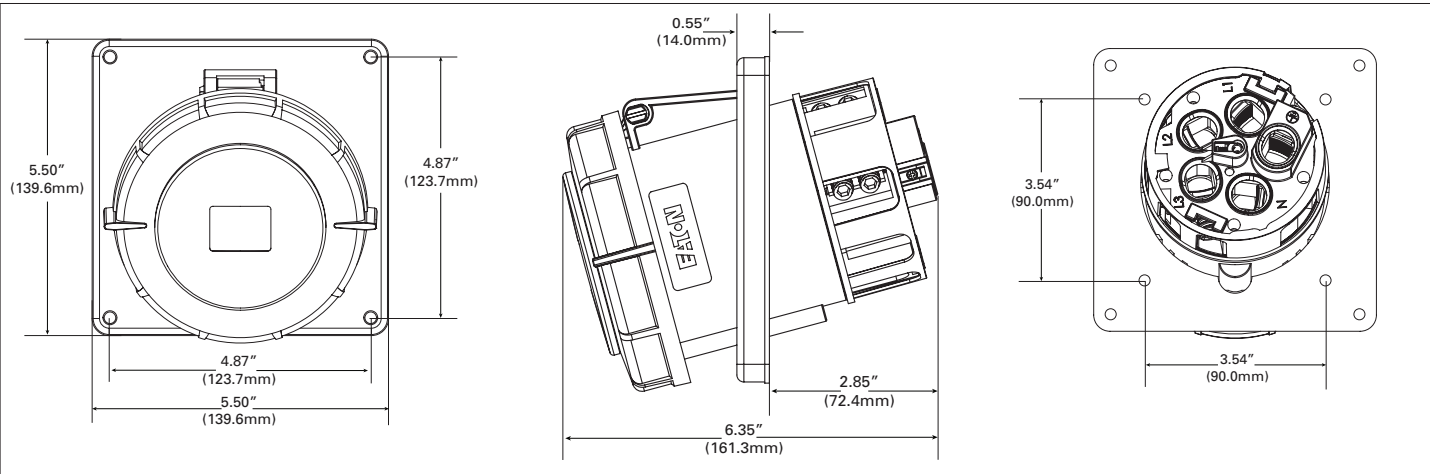


Figure 6. 100A Angled Receptacle, Front, Side & Back Views

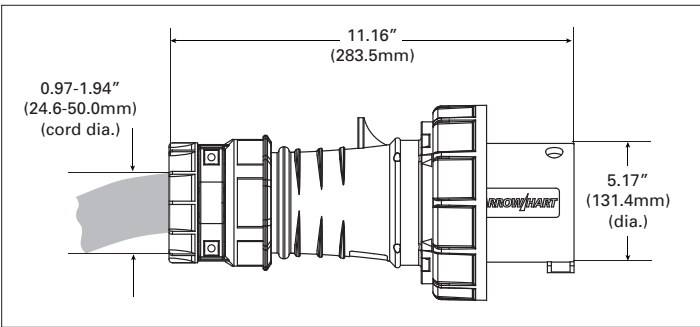


Figure 7. 100A Plugs, Side View

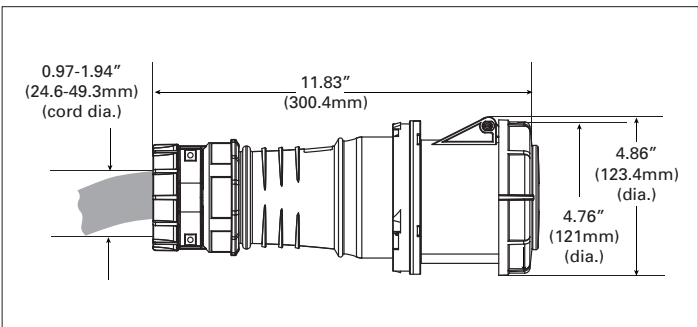


Figure 8. 100A Connectors, Side View

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

Product Dimensions

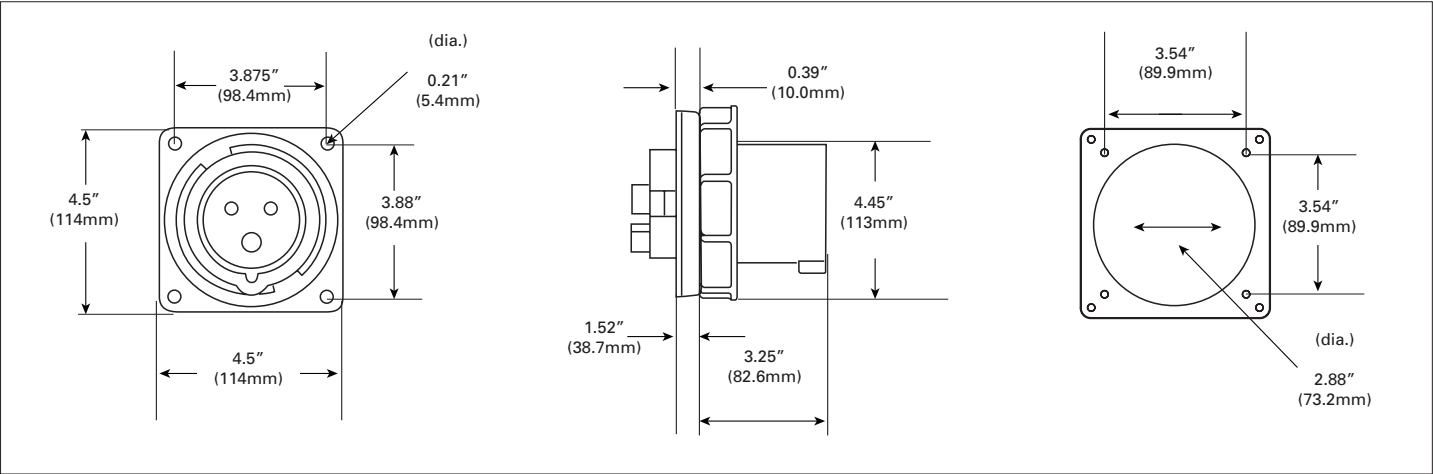


Figure 9. 60A Inlets Front, Side & Back View Inlets

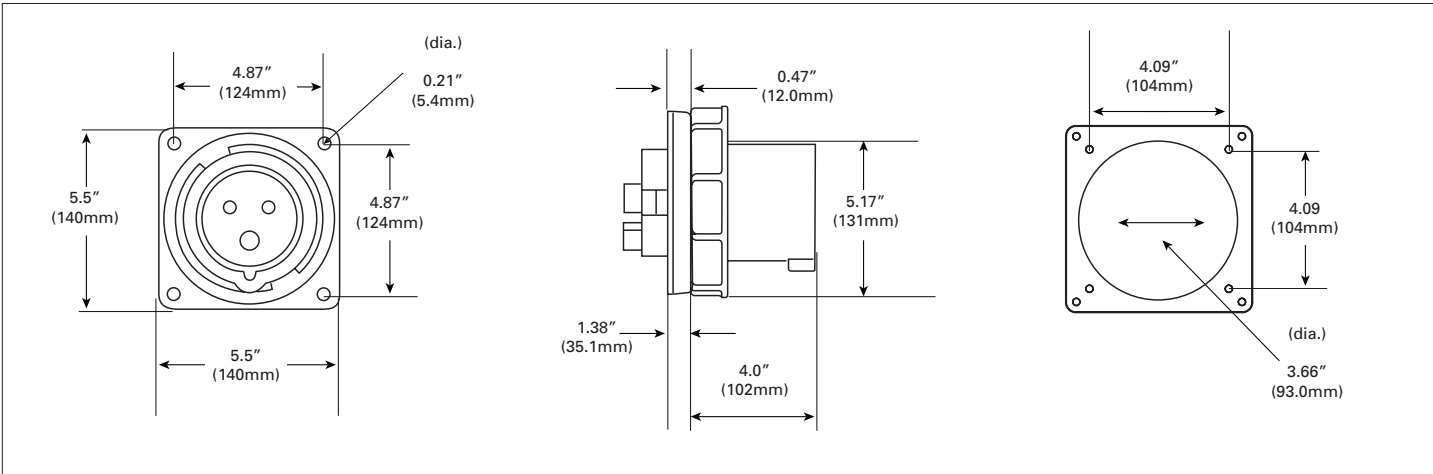


Figure 10. 100A Inlets Front, Side & Back View Inlets

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

Certifications & Compliances

Catalog No.					cULus
AH360R4W	AH360P4W	AH360C4W	AH360B4W	—	•
AH360R6W	AH360P6W	AH360C6W	AH360B6W	—	•
AH360R7W	AH360P7W	AH360C7W	AH360B7W	—	•
AH460R12W	AH460P12W	AH460C12W	AH460B12W	—	•
AH460R9W	AH460P9W	AH460C9W	AH460B9W	—	•
AH460R7W	AH460P7W	AH460C7W	AH460B7W	—	•
AH460R5W	AH460P5W	AH460C5W	AH460B5W	—	•
AH560R9W	AH560P9W	AH560C9W	AH560B9W	AH560R9W-15	•
AH560R7W	AH560P7W	AH560C7W	AH560B7W	—	•
AH560R5W	AH560P5W	AH560C5W	AH560B5W	—	•
AH3100R4W	AH3100P4W	AH3100C4W	AH3100B4W	—	•
AH3100R6W	AH3100P6W	AH3100C6W	AH3100B6W	—	•
AH3100R7W	AH3100P7W	AH3100C7W	AH3100B7W	—	•
AH4100R12W	AH4100P12W	AH4100C12W	AH4100B12W	AH4100R12W-15	•
AH4100R9W	AH4100P9W	AH4100C9W	AH4100B9W	—	•
AH4100R7W	AH4100P7W	AH4100C7W	AH4100B7W	AH4100R7W-15	•
AH4100R5W	AH4100P5W	AH4100C5W	AH4100B5W	—	•
AH5100R9W	AH5100P9W	AH5100C9W	AH5100B9W	AH5100R9W-15	•
AH5100R7W	AH5100P7W	AH5100C7W	AH5100B7W	AH5100R7W-15	•
AH5100R5W	AH5100P5W	AH5100C5W	AH5100B5W	—	•

KEY: cULus cULus

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