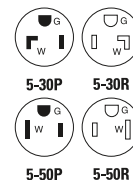


Arrow Hart heavy-duty power devices

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

Description

30A, 125/250V/AC, 2-Pole, 3-Wire Grounding
50A, 125/250V/AC, 2-Pole, 3-Wire Grounding
NEMA 5-30, 5-50



AH1233



1251



S41



5717AN



5717N

Design features for receptacles

- Heavy gauge galvanized steel mounting straps for corrosion resistance
- Terminal pressure plates for enhanced wire retention strength
- Surface receptacles have exclusive lay-in terminals that accept up to #4 AWG wire

Design features for plugs & connectors

- Universal plugs include blades for both 30A & 50A configurations
- Terminals have pressure plates to protect wires
- Auto grip plugs and connectors utilize an internal clamp design to secure cord during assembly
- Auto grip devices are built with a rugged high-strength thermoplastic
- Neoprene gasket seals around cord for added terminal protection on Auto grip devices
- Angled Auto grip plugs have 4 possible positions for maximum convenience

Design features for flanged inlet

- Nylon interior body and solid brass terminal blades offer superior performance
- Terminals accept #10 to #4 AWG connectors

Table 1. NEMA 5-30 Power Devices

Catalog No.	Description	A	V/AC	NEMA	Color
☐ AH1233BK	Heavy-duty flush mount power receptacle	30	125	5-30R	Black
☐ S41	Universal NEMA power plug	30/50	125	5-30P/5-50P	Black
☐ 5717N	Industrial grade auto grip straight body power plug	30	125	5-30P	Gray
☐ 5717AN	Industrial grade angled plug	30	125	5-30P	Gray
☐ 6716N	Industrial grade auto grip power connector	30	125	5-30R	Gray
☐ 5717NFI	Industrial grade flanged inlet	30	125	5-30P	Gray

Table 2. NEMA 5-50 Power Devices

Catalog No.	Description	A	V/AC	NEMA	Color
☐ 1253	Heavy-duty flush mount power receptacle	50	125	5-50R	Black
☐ 1251	Surface mount power receptacle		125	5-50R	Black
☐ S41	Universal NEMA power plug	30/50	125	5-30P/5-50P	Black
☐ 5712N	Industrial grade auto grip straight body power plug	50	125	5-50P	Gray
☐ 5712AN	Industrial grade angled plug	50	125	5-50P	Gray
☐ 6711N	Industrial grade auto grip power connector	50	125	5-50R	Gray
☐ 5712NFI	Industrial grade flanged inlet	50	125	5-50P	Gray

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

EATON

Powering Business Worldwide

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

Applications

Today's high amperage and voltage equipment requires power device that are more durable and reliable than ever, and our power devices are specifically designed to meet those challenges. Our full offering of flush mount receptacles, plugs and connectors deliver reliable connection points for generators, welders, and other heavy workshop tools and are perfect for including on new industrial equipment or for retrofit applications.

Table 1. Specifications

Catalog No.	AH1233, 1253	1251
Device Type	Flush Mount Receptacles	Surface Mount Receptacles
NEMA Config	NEMA 5-30R and 5-50R	NEMA and 5-50R
Wiring Type	Back wire	Back wire
Testing & Code Compliance	cULus listed to UL498, file no. E15058 cUL Listed to CSA C22.2, no. 42 AH1233: NOM Certified	Listed to UL498, file no. E15058 CSA certified to C22.2, no. 42, file no. 6914 (6233-81) NOM certified
Environmental Specifications	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -20°C to 75°C (-4°F to 167°F)	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -20°C to 75°C (-4°F to 167°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)	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: #10 - #4 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #10 - #4 AWG Voltage Ratings: Permanently marked on device

Table 2. Materials

Catalog No.	AH1233, 1253	1251
Device Type	Flush mount receptacles	Surface mount receptacles
Receptacle base	AH1233: PVC, 1253: Glass-Filled Nylon	Urea
Receptacle face	AH1233: PVC, 1253: Glass-Filled Nylon	Polypropylene
Line contacts	0.040" thick 260 brass	0.040" thick 260 brass
Terminal clamps		0.093" thick steel
Terminal screws	1/4-28 UNF-2A Steel Lug Screw	1/4-20 set screw, copper plated
Ground contact	0.040" thick brass	0.032" thick brass
Ground screws	1/4-28 UNF-2A Steel Lug Screw	1/4-20 set screw, zinc plated, green
Assembly/mounting screws	#6 - 32 steel, zinc plated	#6 - 32 steel, zinc plated
Receptacle mounting plate	0.042" thick galvanized steel	0.045" thick galvanized steel

Table 3. Specifications

Catalog No.	S41	5717N, 5717AN, 6716N, 5712N, 5712AN, 6711N	5717NFI, 5712NFI
Device Type	Angled universal plug	Auto grip industrial plugs & connectors	Flanged Inlets
NEMA Config	NEMA 5-30P, 5-50P	NEMA 5-30, 5-50	NEMA 5-30P, 5-50P
Wiring Type	Back wire	Back wire	Back wire
Testing & code compliance	Listed to UL498 file no. E150012 NOM certified	cULus Listed to UL498, file no. E15058 CSA certified to C22.2, no. 42 Plugs only: Complies with Fed Spec WC-596G 6716N: NOM certified	cULus Listed to UL498, file no. E3663 UL verified to Fed Spec WC-596G cUL Listed to CSA C22.2, no. 42-M1999
Environmental Specifications	Flammability: Meets UL94 requirements; V0 rated Temperature Rating: -20°C to 60°C (-4°F to 140°F)	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -40°C to 75°C (-40°F to 167°F)	Flammability: Meets UL94 requirements; flanged housing: V0 rated, all other components: V2 rated Temperature Rating: -40°C to 75°C (-40°F to 167°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)	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: 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 @ 150% of rated current (DC)
Mechanical Specifications	Terminal Accommodation: #10 - #8 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #12 - #4 AWG Voltage Ratings: Permanently marked on device	Terminal Accommodation: #12 - #4 AWG Voltage Ratings: Permanently marked on device

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

Table 4. Materials

Catalog No.	S41	5717N, 5717AN, 6716N, 5712N, 5712AN, 6711N	5717NFI, 5712NFI
Device Type	Angled Universal Plug	Auto Grip Industrial Plugs & Connectors	Flanged Inlets
Plug/connector outer shell or flanged housing	PVC	Nylon	ABS
Interior body	N/A	Nylon	Nylon
Terminal retainer	N/A	Straight Plugs and Connectors: Polypropylene, Angled Plugs: abs	Nylon
Blades	0.096" thick brass	0.065" thick brass	0.100" thick brass
Line contacts	N/A	0.031" thick brass	0.100" thick brass
Terminal clamps	Steel, zinc plated	Galvanized steel	Brass
Terminal screws	1/4-28 set screw, steel, zinc plated	#8 - 32 brass, nickel plated	3/8-27 brass
Ground screw	1/4-28 set screw, steel, zinc plated	#8 - 32 brass, green	3/8-27 brass, zinc plated, green
Assembly/mounting screws	#6 - 32 steel, nickel plated	Steel	Assembly screws: #6 steel, zinc plated; Mounting Screws: #10-32 steel, zinc plated
Cord clamp	Steel, zinc plated	Polypropylene	N/A
Gasket/dust shield	N/A	Straight plugs and connectors: neoprene, Angled Plugs: N/A	N/A

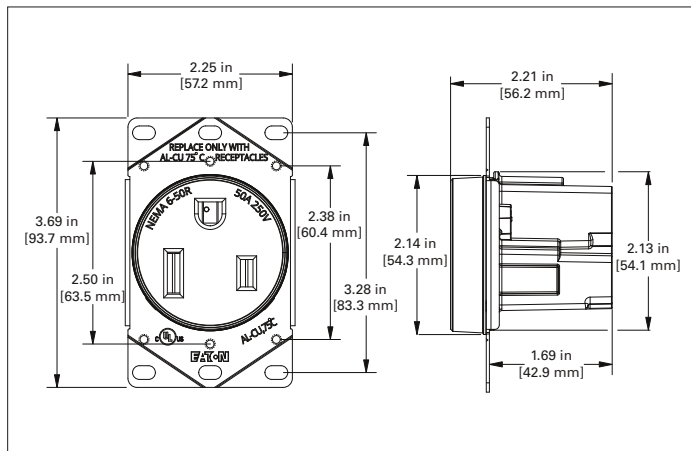


Figure 1. Heavy-Duty flush mount power receptacle

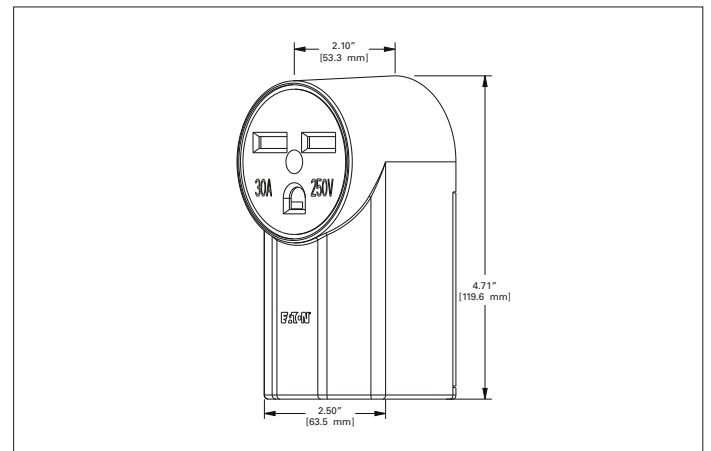


Figure 2. Surface Mount Receptacle

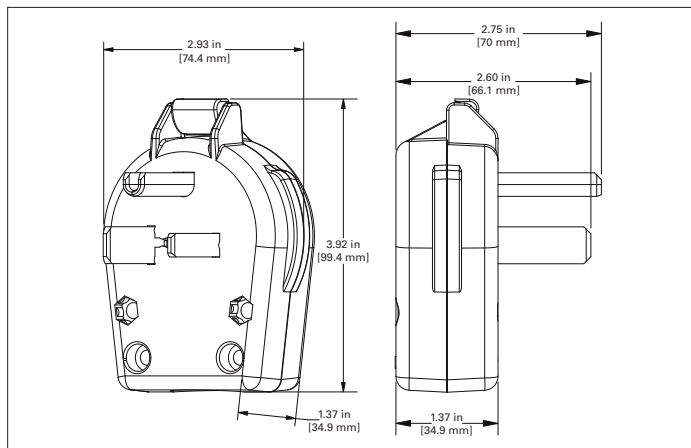


Figure 3. Universal NEMA Power Plug

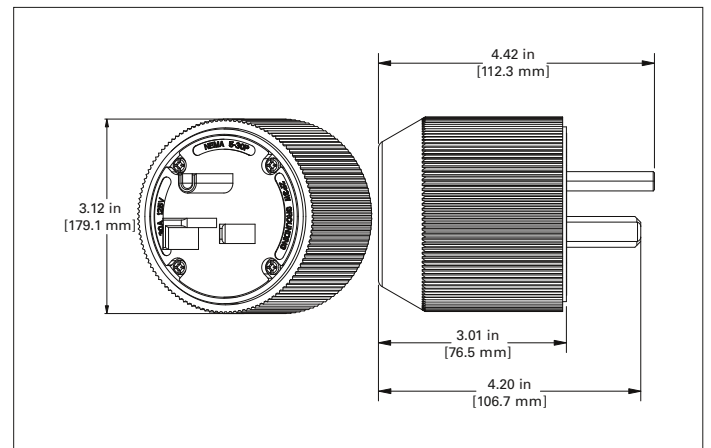


Figure 4. Industrial grade auto grip straight body power plug

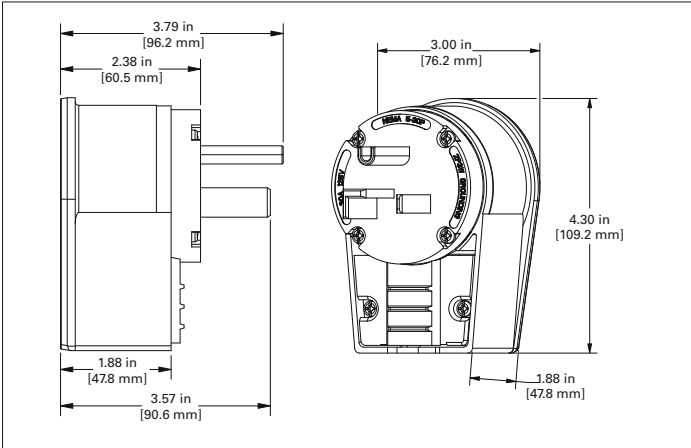


Figure 5. Auto Grip Industrial Angled Plug

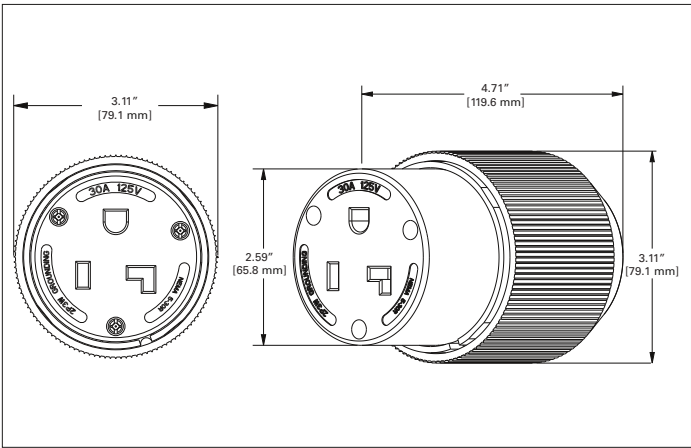


Figure 6. Industrial grade auto grip power connector

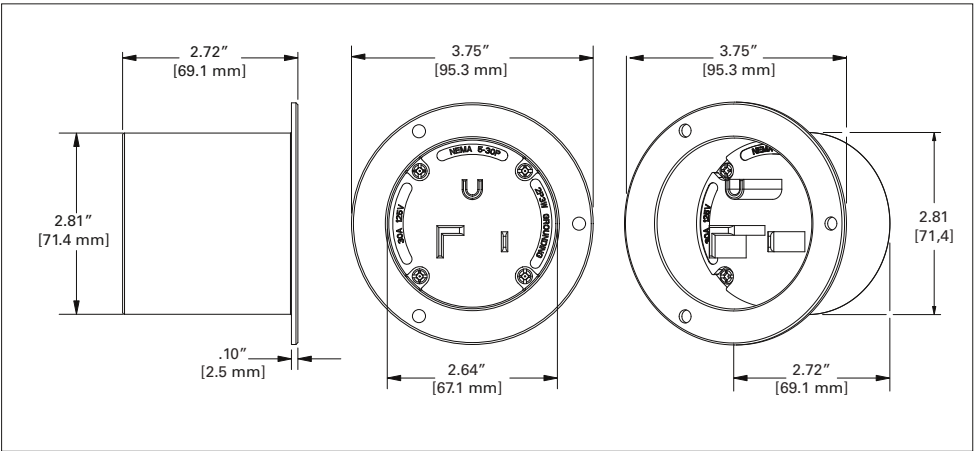


Figure 7. Industrial grade angled plug

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

Certifications & Compliances

Catalog No.					
AH1233BK		•		•	•
41		•		•	•
5717N	•		•	•	•
5717AN	•		•	•	•
6716N	•		•		
5717NFI	•		•	•	•
1253		•		•	•
1251		•		•	•
5712N	•		•		•
5712AN	•		•		•
6711N	•				•
5712NFI	•		•		

KEY:  cULus  UL  CSA  FULus  NOM  USMCA

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