



Table of Contents	Page
IEC Configurations, Ratings and Catalog Numbering System	J-2
Watertight Devices	
Product Features	J-3
20, 30 and 60 Amp North American Ratings	J-4
100 Amp North American Ratings	J-5
16, 32, 63 and 125 Amp International Ratings	J-5
Dimensional Data	J-6
Technical Specifications	J-10
Splashproof Devices	
16 and 32 Amp International Ratings	J-7
Technical Specifications	J-11
Accessories	
Back Boxes, Adapter Plates and Closure Caps	J-8
Switched Mechanical Interlocks	
Unfused Mechanical Interlocks	J-9
Technical Specifications	J-12
Horsepower Ratings	J-12



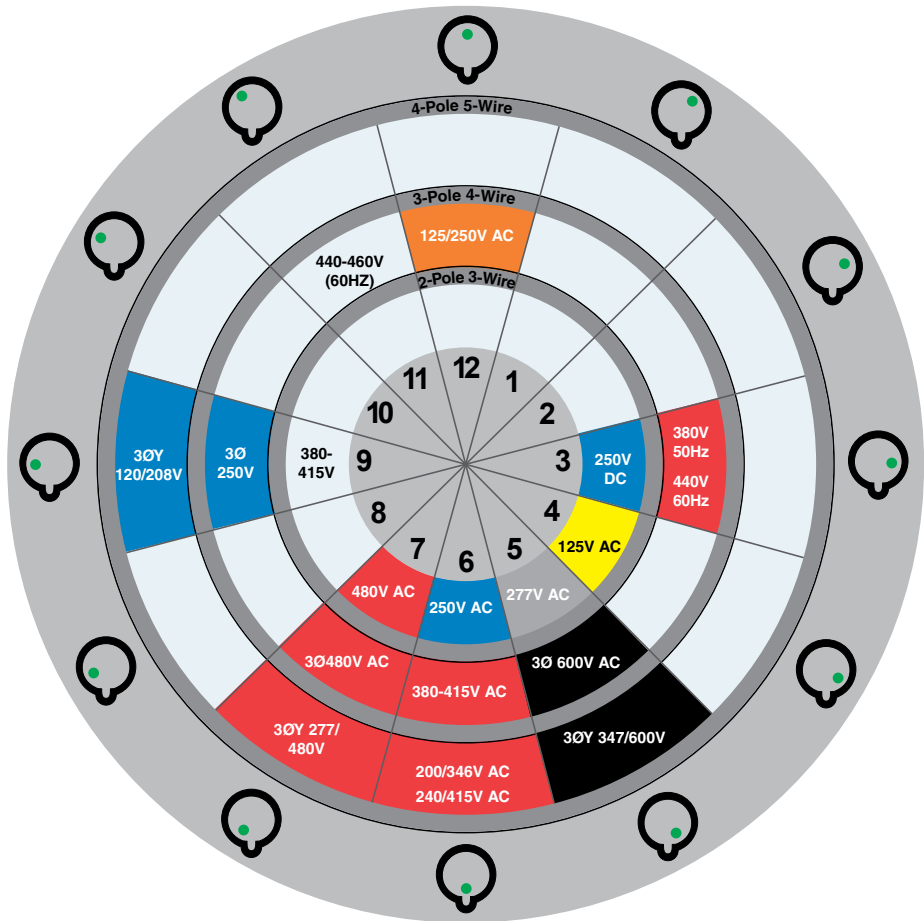
Pin & Sleeve Devices



IEC Configurations Make Safe Connections As Easy As Clockwork

Bryant's Pin & Sleeve line safeguards against mismatching devices of different amperage and voltage ratings. Conformance with IEC 60309-1 and IEC 60309-2 international standards results in a singly-rated, non-interchangeable configuration for each amperage/voltage type.

The voltage rating can be identified by the clock position of the female grounding sleeve relative to the housing keyway. With the keyway always positioned at 6 o'clock, the female grounding sleeve is located at a specific clock position for each voltage rating.



The housing keyway is always located at the 6 o'clock position on all female devices and is clearly visible to the user.

Female Grounding Sleeve
Female Housing Keyway

IEC Pin & Sleeve device housings are color coded by voltage rating for easy identification.

Rated Voltage	Color
100V-130V	Yellow
125V/250V	Orange
200V-250V	Blue
277V	Grey
380V-480V	Red
500V and above	Black

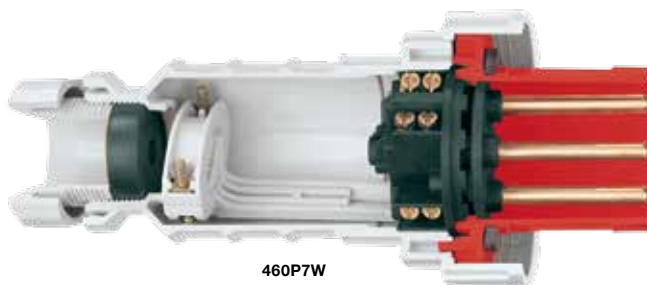
IEC Catalog Numbering System

First Digit Wires	Next Series of Digits North American Amps	Letter Device Type	Last Digit(s) Clock Position	Letter Environmental Classification
3 – 3-Wire 4 – 4-Wire 5 – 5-Wire	20 – 20 Amp 30 – 30 Amp 60 – 60 Amp 100 – 100 Amp International 16 – 16 Amp 32 – 32 Amp 63 – 63 Amp 125 – 125 Amp	P – Plug C – Connector R – Receptacle B – Inlet	9 – After the letter. This denotes the position of the ground sleeve and the assigned voltage in the receptacle as it relates to the hours of the clock. This is done to eliminate interchangeability between devices with different voltages.	W – Watertight S – Splashproof



Example: **4** **30** **C** **9** **W**

4-Wire
30 Amp
“C” Connector
9 – Female Ground Sleeve at 9 O’Clock Position (3Ø 250V AC)
W – Watertight



460P7W

- Gland nut and body have opposing thread profiles to prevent pull-out and reduce wear (available in most ratings)
- No exposed metal screws or clamps promotes safe handling and prevents snagging
- Toughened nylon housing protects against cracking, warping, corrosion, and chemical abrasion
- Neoprene sealing glands provide a watertight seal
- Solid brass pins provide contact reliability, and superior conductivity. Shrouded housing helps protect pins from contaminants and abuse
- Cord clamp screws fasten into threaded steel nuts to prevent strip-out

Locking Connector

- Spring-loaded gasketed cover
- Self-adjusting contacts provide accurate pin insertion, producing self-cleaning effect as pin is inserted and withdrawn from sleeve
- High temperature contact carrier
- Radial rib exterior
- Phase contacts are recessed in deep insulated chambers to minimize arcing
- Ground contact in forward position ensures first make, last break, neutral contact connects next, then phase contacts
- Terminal screws are backed out for easy assembly



460C7W

Housing Keyway



External housing key on male devices mates with keyway on female devices to provide proper alignment and simplify the connection of devices, keyway is always located at the 6 o'clock position and is clearly visible to the user, helping to prevent the mismatching of devices with different ratings.

Contact



Bryant's exclusive 60A and 100A contact design features a well-defined contact area and a stainless steel clip to provide more consistent contact pressure

Swing-Away Cord Clamp



Wiring is simplified with swing-away cord clamp. Strain relief clamp assembly swings out for greater access when terminating individual conductors and securing cord clamp

Box Terminal



Box terminal design with pressure plate (60A and 100A) permits greater clamping pressure without damaging conductors

Watertight 20, 30 and 60 Amp Devices

Watertight 20A, 30A and 60A North American Ratings



Amps	Poles/ Wires	Configuration		Voltage	Watertight Devices					
		Recep./ Conn.	Plug/ Inlet		Receptacle	Plug	Connector	Inlet	Back Box*	Closure Cap**
20	2P 3W			125V AC	320R4W	320P4W	320C4W	320B4W	BB201WA BB301WA	CC320A
	2P 3W			250V AC	320R6W	320P6W	320C6W	320B6W	BB201WA BB301WA	CC320A
	2P 3W			480V AC	320R7W	320P7W	320C7W	320B7W	BB201WA BB301WA	CC320A
	3P 4W			125/250V AC	420R12W	420P12W	420C12W	420B12W	BB201WA BB301WA	CC420A
	3P 4W			3Ø 250V	420R9W	420P9W	420C9W	420B9W	BB201WA BB301WA	CC420A
	3P 4W			3Ø 480V	420R7W	420P7W	420C7W	420B7W	BB201WA BB301WA	CC420A
	3P 4W			3Ø 600V	420R5W	420P5W	420C5W	420B5W	BB201WA BB301WA	CC420A
	4P 5W			3ØY 120/208V	520R9W	520P9W	520C9W	520B9W	BB201WA BB301WA	CC520
	4P 5W			3ØY 277/480V	520R7W	520P7W	520C7W	520B7W	BB201WA BB301WA	CC520
30	2P 3W			125V AC	330R4W	330P4W	330C4W	330B4W	BB201WA BB301WA	CC330
	2P 3W			250V AC	330R6W	330P6W	330C6W	330B6W	BB201WA BB301WA	CC330
	2P 3W			480V AC	330R7W	330P7W	330C7W	330B7W	BB201WA BB301WA	CC330
	3P 4W			125/250V AC	430R12W	430P12W	430C12W	430B12W	BB201WA BB301WA	CC330
	3P 4W			3Ø 250V	430R9W	430P9W	430C9W	430B9W	BB201WA BB301WA	CC330
	3P 4W			3Ø 480V	430R7W	430P7W	430C7W	430B7W	BB201WA BB301WA	CC330
	3P 4W			3Ø 600v	430R5W	430P5W	430C5W	430B5W	BB201WA BB301WA	CC330
	4P 5W			3ØY 120/208V	530R9W	530P9W	530C9W	530B9W	BB201WA BB301WA	CC530
	4P 5W			3ØY 277/480V	530R7W	530P7W	530C7W	530B7W	BB201WA BB301WA	CC530
60	2P 3W			125V AC	360R4W	360P4W	360C4W	360B4W	BB601WA BB602WA	CC560
	2P 3W			250V AC	360R6W	360P6W	360C6W	360B6W	BB601WA BB602WA	CC560
	2P 3W			480V AC	360R7W	360P7W	360C7W	360B7W	BB601WA BB602WA	CC560
	3P 4W			125/250V AC	460R12W	460P12W	460C12W	460B12W	BB601WA BB602WA	CC560
	3P 4W			3Ø 250V	460R9W	460P9W	460C9W	460B9W	BB601WA BB602WA	CC560
	3P 4W			3Ø 480V	460R7W	460P7W	460C7W	460B7W	BB601WA BB602WA	CC560
	3P 4W			3Ø 600V	460R5W	460P5W	460C5W	460B5W	BB601WA BB602WA	CC560
	4P 5W			3ØY 120/208V	560R9W	560P9W	560C9W	560B9W	BB601WA BB602WA	CC560
	4P 5W			3ØY 277/480V	560R7W	560P7W	560C7W	560B7W	BB601WA BB602WA	CC560
	4P 5W			3ØY 347/600V	560R5W	560P5W	560C5W	560B5W	BB601WA BB602WA	CC560

Note: *Back boxes for:

20 and 30 amp receptacles require AP2030 adapter plate (page J-8) ordered separately. Also see direct mounting back box DM20301 (page J-8).

60 amp receptacles require AP60 adapter plate ordered separately (page J-8). Also see direct mounting back box DM602 (page J-8).

**For use with plugs and inlets. Provides watertight protection.

Watertight 100 Amp and International Devices

Watertight 100A North American Ratings



Amps	Poles/ Wires	Configuration		Voltage	Watertight Devices					
		Recep./ Conn.	Plug/ Inlet		Receptacle	Plug	Connector	Inlet	Back Box*	Closure Cap**
100	2P 3W			250V AC	3100R6W	3100P6W	3100C6W	3100B6W	BB1001WA BB1002WA	CC510
	2P 3W			480V AC	3100R7W	3100P7W	3100C7W	3100B7W	BB1001WA BB1002WA	CC510
	3P 4W			125/250V AC	4100R12W	4100P12W	4100C12W	4100B12W	BB1001WA BB1002WA	CC510
	3P 4W			3Ø 250V	4100R9W	4100P9W	4100C9W	4100B9W	BB1001WA BB1002WA	CC510
	3P 4W			3Ø 480V	4100R7W	4100P7W	4100C7W	4100B7W	BB1001WA BB1002WA	CC510
	3P 4W			3Ø 600V	4100R5W	4100P5W	4100C5W	4100B5W	BB1001WA BB1002WA	CC510
	4P 5W			3ØY 120/208V	5100R9W	5100P9W	5100C9W	5100B9W	BB1001WA BB1002WA	CC510
	4P 5W			3ØY 277/480V	5100R7W	5100P7W	5100C7W	5100B7W	BB1001WA BB1002WA	CC510

Note: *Back boxes for 100 amp receptacles require AP100 adapter plate ordered separately (page J-8).

**For use with plugs and inlets. Provides watertight protection.



Watertight 16A, 32A, 63A and 125A International Ratings***

Amps	Poles/ Wires	Configuration		Voltage	Watertight Devices					
		Recep./ Conn.	Plug/ Inlet		Receptacle	Plug	Connector	Inlet	Back Box*	Closure Cap**
16	2P 3W			100-130V	316R4W	316P4W	316C4W	316B4W	BB201WA BB301WA	CC320A
	2P 3W			200-250V	316R6W	316P6W	316C6W	316B6W	BB201WA BB301WA	CC320A
	3P 4W			380-415V	416R6W	416P6W	416C6W	416B6W	BB201WA BB301WA	CC420A
	4P 5W			200/346V 240/415V	516R6W	516P6W	516C6W	516B6W	BB201WA BB301WA	CC520
32	2P 3W			100-130V	332R4W	332P4W	332C4W	332B4W	BB201WA BB301WA	CC330
	2P 3W			200-250V	332R6W	332P6W	332C6W	332B6W	BB201WA BB301WA	CC330
	3P 4W			380-415V	432R6W	432P6W	432C6W	432B6W	BB201WA BB301WA	CC330
	3P 4W			380V 50Hz 440V 60Hz	432R3W	432P3W	432C3W	432B3W	BB201WA BB301WA	CC330
	4P 5W			200/346V 240/415V	532R6W	532P6W	532C6W	532B6W	BB201WA BB301WA	CC530
63	2P 3W			200-250V	363R6W	363P6W	363C6W	363B6W	BB601WA BB602WA	CC560
	3P 4W			380-415V	463R6W	463P6W	463C6W	463B6W	BB601WA BB602WA	CC560
	4P 5W			200/346V 240/415V	563R6W	563P6W	563C6W	563B6W	BB601WA BB602WA	CC560
125	3P 4W			380-415V	4125R6W	4125P6W	4125C6W	4125B6W	BB1001WA BB1002WA	CC510
	4P 5W			200/346V 240/415V	5125R6W	5125P6W	5125C6W	5125B6W	BB1001WA BB1002WA	CC510

Note: *Back boxes for:

16 and 32 amp receptacles require AP2030 adapter plate ordered separately (page J-8). Also see direct mounting back box DM20301 (page J-8).

63 amp receptacles require AP60 adapter plate ordered separately (page J-8). Also see direct mounting back box DM602 (page J-8).

125 amp receptacles require AP100 adapter plate ordered separately (page J-8).

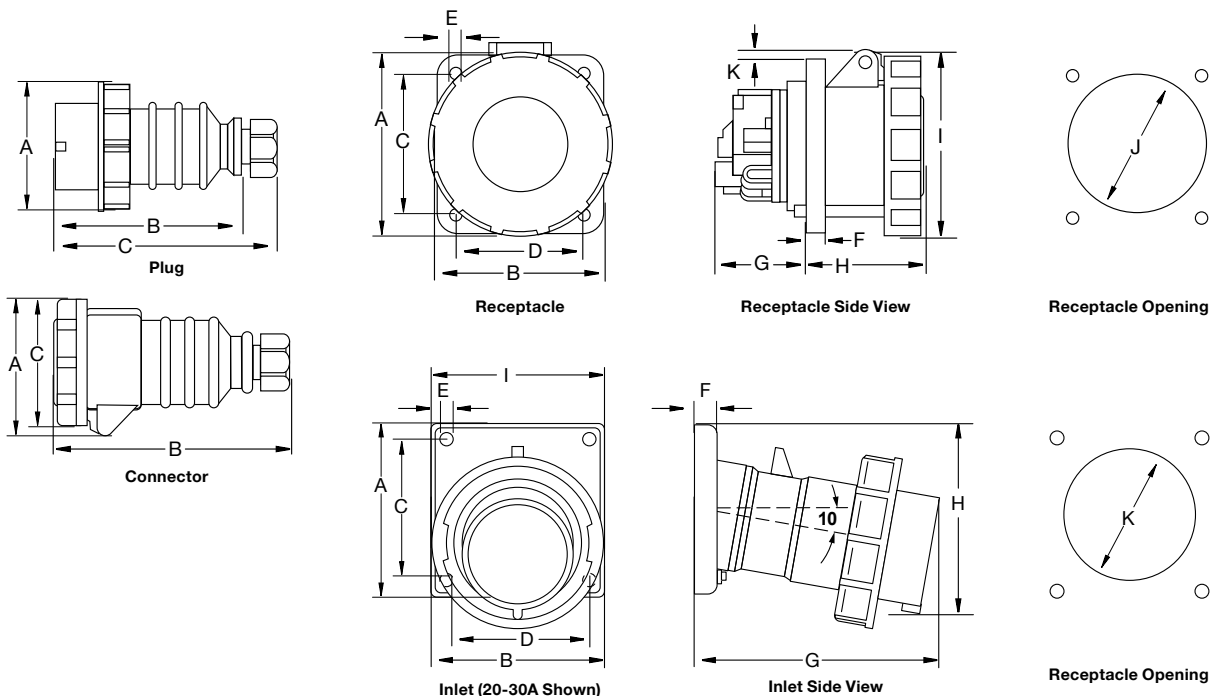
**For use with plugs and inlets. Provides watertight protection.

***Not UL Listed, nor CSA Certified.

Product Dimensions Inches (mm)

		16/20A			30/32A			60/63A	100/125A
		3-Wire	4-Wire	5-Wire	3-Wire	4-Wire	5-Wire	3-, 4-, 5-Wire	3-, 4-, 5-Wire
Plug	A	2.75" (70.5)	3.04" (78.0)	3.37" (86.5)	3.67" (94.0)	3.67" (94.0)	3.96"(101.5)	4.43" (113.5)	4.88" (125.0)
	B	4.37" (112.0)	4.37" (112.0)	4.60" (118.0)	5.62" (144.0)	5.62" (144.0)	5.62" (144.0)	8.81" (226.0)	9.87" (253.0)
	C	5.42" (139.0)	5.42" (139.0)	5.66" (145.0)	6.67" (171.0)	6.67" (171.0)	6.67" (171.0)	9.91" (254.0)	11.15" (286.0)
	D*	.375"-.625" (9.52-15.5)			.580"-.900" (14.7-22.8)			.74"-1.270" (18.8-35.5)	.95"-1.670" (24.1-42.4)
Connector	A	2.75" (70.5)	3.04" (78.0)	3.37" (86.5)	3.67" (94.0)	3.67" (94.0)	3.96" (101.5)	4.29" (110.0)	4.91" (126.0)
	B	5.97" (153.0)	5.97" (153.0)	6.20" (159.0)	7.33" (188.0)	7.33" (188.0)	7.33" (188.0)	10.61" (272.0)	12.01" (308.0)
	C	3.00" (77.0)	3.24" (83.0)	3.63" (93.0)	3.86" (99.0)	3.86" (99.0)	4.17" (107.0)	4.43" (113.5)	4.99" (128.0)
	D*	.375"-.625" (9.52-15.5)			.580"-.900" (14.7-22.8)			.74"-1.270" (18.8-35.5)	.95"-1.670" (24.1-42.4)
Receptacle	A	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	4.17" (107.0)	4.68" (120.0)
	B	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	3.90" (100.0)	4.68" (120.0)
	C	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	3.32" (85.0)	3.90" (100.0)
	D	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	3.00" (77.0)	3.90" (100.0)
	E	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.25" (6.5)	0.25" (6.5)
	F	0.27" (7.0)	0.27" (7.0)	0.27" (7.0)	0.31" (8.0)	0.31" (8.0)	0.31" (8.0)	0.47" (12.0)	0.82" (21.0)
	G	0.66" (17.0)	1.01" (26.0)	0.66" (17.0)	1.40" (36.0)	1.40" (36.0)	0.74" (19.0)	2.20" (56.5)	1.95" (50.0)
	H	2.22" (57.0)	2.26" (58.0)	2.22" (57.0)	2.54" (65.0)	2.54" (65.0)	2.54" (65.0)	2.96" (76.0)	4.56" (117.0)
	I	2.96" (76.0)	3.24" (83.0)	3.63" (93.0)	3.90" (100.0)	3.90" (100.0)	3.90" (100.0)	4.41" (113.0)	5.03" (129.0)
	J	1.76" (45.0)	1.76" (45.0)	2.15" (55.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	3.43" (88.0)	3.62" (92.0)
	K*	0.14" (3.5)	0.27" (7.0)	0.45" (11.5)	0.47" (12.0)	0.47" (12.0)	0.66" (17.0)	0.27" (7.0)	0.23" (6.0)
Inlet	A	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	4.17" (107.0)	4.68" (120.0)
	B	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)	3.90" (100.0)	4.68" (120.0)
	C	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	3.32" (85.0)	3.90" (100.0)
	D	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	3.00" (77.0)	3.90" (100.0)
	E	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.22" (5.5)	0.25" (6.5)	0.25" (6.5)
	F	0.27" (7.0)	0.27" (7.0)	0.27" (7.0)	0.31" (8.0)	0.31" (8.0)	0.31" (8.0)	0.47" (12.0)	0.82" (21.0)
	G	0.66" (17.0)	1.01" (26.0)	0.66" (17.0)	1.40" (36.0)	1.40" (36.0)	0.74" (19.0)	2.20" (56.5)	1.95" (50.0)
	H	2.22" (57.0)	2.26" (58.0)	2.22" (57.0)	2.54" (65.0)	2.54" (65.0)	2.54" (65.0)	2.96" (76.0)	4.56" (117.0)
	I	2.96" (76.0)	3.24" (83.0)	3.63" (93.0)	3.90" (100.0)	3.90" (100.0)	3.90" (100.0)	4.41" (113.0)	5.03" (129.0)
	J	1.76" (45.0)	1.76" (45.0)	2.15" (55.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)	3.43" (88.0)	3.62" (92.0)
	K*	0.14" (3.5)	0.27" (7.0)	0.45" (11.5)	0.47" (12.0)	0.47" (12.0)	0.66" (17.0)	0.27" (7.0)	0.23" (6.0)

Note: *Cable Grip.



Pin & Sleeve Devices

Splashproof 16 and 32 Amp International Devices



- Ground contact in forward position to ensure first make, last break, neutral contact connects next, then phase contacts
- Neoprene sealing glands seal out moisture and contaminants at cord entry
- Gland nut and ring compress sealing gland around cord to seal out contaminants
- Solid brass pins provide contact reliability and superior conductivity

Splashproof 16A and 32A International Ratings



Amps	Poles/ Wires	Configuration		Voltage	Receptacle	Plug	Connector	Back Box*
		Recep./ Conn.	Plug/ Inlet					
16	2P 3W			100-130V	316R4S	316P4S	316C4S	BB201WA BB301WA
	2P 3W			200-250V	316R6S	316P6S	316C6S	BB201WA BB301WA
	3P 4W			380-415V	416R6S	416P6S	416C6S	BB201WA BB301WA
	4P 5W			200/346V 240/415V	516R6S	516P6S	516C6S	BB201WA BB301WA
32	2P 3W			100-130V	332R4S	332P4S	332C4S	BB201WA BB301WA
	2P 3W			200-250V	332R6S	332P6S	332C6S	BB201WA BB301WA

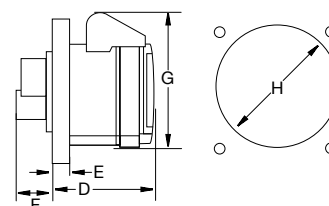
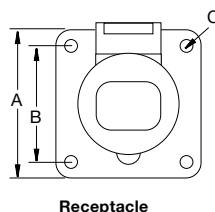
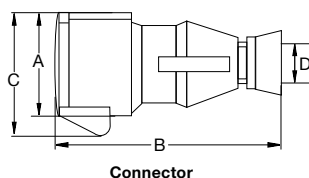
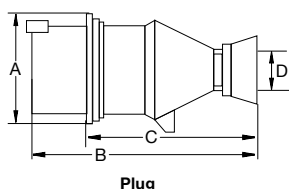
Note: *Requires AP2030 adapter plate, ordered separately (page J-8). Also see direct mounting back box DM20301 (page J-8).

Product Dimensions Inches (mm)

	Plug			32A
	16A	4-Wire	5-Wire	
	3-Wire			3-Wire
A	1.99" (51.0)	2.26" (58.0)	2.50" (64.0)	2.57" (66.0)
B	5.38" (138.0)	5.38" (138.0)	5.58" (143.0)	6.83" (175.0)
C	3.99" (102.0)	3.99" (102.0)	4.17" (107.0)	5.07" (130.0)
D	0.66" (17.0)	0.66" (17.0)	0.66" (17.0)	0.96" (24.5)

	Connector			32A
	16A	4-Wire	5-Wire	
	3-Wire			3-Wire
A	1.99" (51.0)	2.26" (58.0)	2.50" (64.0)	2.57" (66.0)
B	5.85" (150.0)	5.89" (151.0)	6.05" (155.0)	7.33" (188.0)
C	2.77" (71.0)	3.08" (79.0)	3.32" (85.0)	3.63" (93.0)
D	0.66" (17.0)	0.66" (17.0)	0.66" (17.0)	0.96" (24.5)

	Receptacle			32A
	16A	4-Wire	5-Wire	
	3-Wire			3-Wire
A	2.44" (62.0)	2.93" (75.0)	2.93" (75.0)	2.93" (75.0)
B	1.88" (47.0)	2.34" (60.0)	2.34" (60.0)	2.34" (60.0)
C	0.22" (5.5)	0.22" (5.5)	0.21" (5.5)	0.21" (5.5)
D	1.99" (51.0)	2.07" (53.0)	2.07" (53.0)	2.42" (62.0)
E	0.27" (7.0)	0.27" (7.0)	0.27" (7.0)	0.31" (8.0)
F	0.66" (17.0)	1.01" (26.0)	0.66" (17.0)	1.40" (36.0)
G	2.73" (70.0)	3.12" (80.0)	3.32" (85.0)	3.51" (90.0)
H	1.76" (45.0)	1.76" (45.0)	2.15" (55.0)	2.34" (60.0)





- Back box features heavy duty cast aluminum construction with a durable enamel finish
- Adapter plates allow receptacles and inlets to be mounted to back boxes
- Cast aluminum direct mount back boxes permit receptacles to be mounted directly to box without adapter plate
- Closure caps provide a watertight seal for male plugs and flanged inlets when not mated

NEMA Type 1 Portable Outlet Box Cover Plates



BB201WA



FT202WA



FW60100A



AP2030



DM20301



CC320A

For Use With	Hub Size In.	Back Boxes			Adapter Plates	Direct Mount Back Boxes
		For Mounting Receptacles and Inlets			Required to Mount Receptacles and Inlets to Back Boxes	15° Angle
		15° Angle	Feed-Thru	Four-Way		
20/30A	¾" 1"	BB201WA* BB301WA*	FT202WA* FT302WA**	— —	AP2030	DM20301 —
60A	1¼" 1½"	BB601WA* BB602WA*	— —	— FW60100A**	AP60	DM602 —
100A	1½" 2"	BB1001WA* BB1002WA*	— —	— FW60100A**	AP100	— —

Note: *Adapter plates: 20/30A devices requires AP2030, 60A devices require AP60 and 100A devices require AP100 adapter plates, ordered separately.

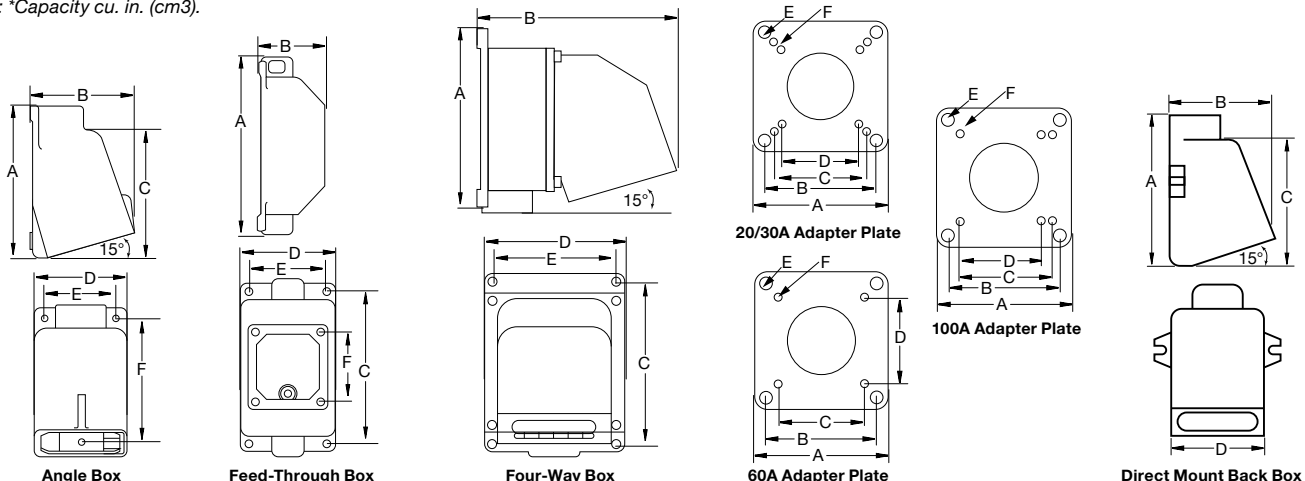
**Requires AP60 adapter plate to mount 60A receptacle or inlet. 100A receptacle mounts directly to box. 100A inlet does not mount to this box.

Closure Caps		
For Use With		Catalog Number
16/20A	3-Wire 4-Wire 5-Wire	CC320A CC420A CC520
30/32A	3 & 4-Wire 5-Wire	CC330 CC530
60/63A	3, 4 & 5-Wire 5-Wire	CC560
100/125A	3, 4 & 5-Wire 5-Wire	CC510

Product Dimensions Inches (mm)

Back Boxes					Adapter Plates			Direct Mount Back Boxes	
20/30A		60A	60/100A	100A	20/30A	60A	100A	15° Angle	
15° Angle	Feed-Thru	15° Angle	Four-Way	15° Angle	20/30A	60A	100A	20/30A	60A
A 5.12" (130.2)	8.25" (209.6)	7.25" (184.2)	8.75" (222.3)	8.12" (206.4)	3.76" (96.4)	4.51" (115.6)	5.52" (141.5)	5.07" (130.0)	5.81" (149.0)
B 4.00" (101.6)	3.06" (77.8)	5.25" (133.4)	9.75" (247.7)	6.75" (171.5)	3.13" (80.3)	3.88" (99.5)	4.87" (124.9)	3.38" (78.0)	4.28" (110.0)
C 4.19" (106.4)	7.14" (181.4)	6.00" (152.4)	7.75" (196.9)	6.88" (174.6)	2.76" (70.8)	3.03" (77.7)	4.25" (109.0)	4.13" (106.0)	4.56" (117.0)
D 3.75" (95.3)	4.50" (114.3)	4.50" (114.3)	6.75" (171.5)	5.50" (139.7)	2.36" (60.5)	3.35" (85.9)	3.94" (101.0)	3.62" (92.0)	4.58" (117.0)
E 3.00" (76.2)	3.75" (95.3)	3.75" (95.3)	6.00" (152.4)	4.75" (120.7)	0.22" (5.6) Dia.	0.22" (5.6) Dia.	0.22" (5.6) Dia.	—	—
F 4.00" (101.6)	3.13" (79.5)	6.19" (157.2)	—	6.94" (176.2)	0.18" (4.6) Dia.	0.18" (4.6) Dia.	0.18" (4.6) Dia.	—	—
G* 30.0" (492)	48.0" (787)	80.0" (1312)	210.0" (3444)	130.0" (2132)	—	—	—	20.0" (328.0)	40.0" (656.0)

Note: *Capacity cu. in. (cm3).



Pin & Sleeve Devices

Unfused Mechanical Interlocks



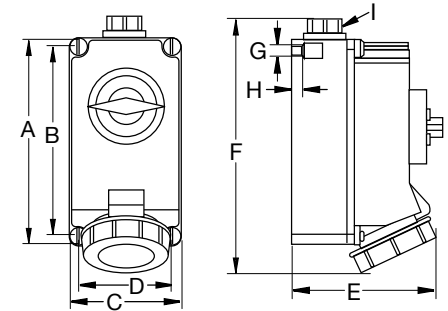
- 30 and 60 amp units provide top or bottom feed option (20 and 100 amp are top feed)
- NEMA 4X and 12 enclosures provide watertight and dust-tight protection
- Heavy duty disconnect switches are horse-power rated for motor load applications
- Watertight conduit hub and grounding plate included for use with metallic conduit

Amps	Poles/ Wires	Configuration		Voltage	Interlock	Mating Plug*
		Recep./ Conn.	Plug/ Inlet			
20	3P 4W			240V AC 3Ø	420SMI9W	420P9W
	3P 4W			480V AC 3Ø	420SMI7W	420P7W
	3P 4W			600V AC 3Ø	420SMI5W	420P5W
30	2P 3W			120V AC	330SMI4W	330P4W
	2P 3W			240V AC	330SMI6W	330P6W
	2P 3W			480V AC	330SMI7W	330P7W
	3P 4W			240V AC 3Ø	430SMI9W	430P9W
	3P 4W			480V AC 3Ø	430SMI7W	430P7W
	3P 4W			600V AC 3Ø	430SMI5W	430P5W
	4P 5W			120/208V AC 3ØY	530SMI9W	530P9W
	4P 5W			277/480V AC 3ØY	530SMI7W	530P7W
32	3P 4W			380V AC 3Ø 50Hz 440V AC 3Ø 60Hz	432SMI3W	432P3W
60	2P 3W			120V AC	360SMI4W	360P4W
	2P 3W			240V AC	360SMI6W	360P6W
	2P 3W			480V AC	360SMI7W	360P7W
	3P 4W			240V AC 3Ø	460SMI9W	460P9W
	3P 4W			480V AC 3Ø	460SMI7W	460P7W
	3P 4W			600V AC 3Ø	460SMI5W	460P5W
	4P 5W			120/208V AC 3ØY	560SMI9W	560P9W
	4P 5W			277/480V AC 3ØY	560SMI7W	560P7W
100	4P 5W			347/600V AC 3ØY	560SMI5W	560P5W
	2P 3W			240V AC	3100SMI6W	3100P6W
	3P 4W			240V AC 3Ø	4100SMI9W	4100P9W
	3P 4W			480V AC 3Ø	4100SMI7W	4100P7W
	3P 4W			600V AC 3Ø	4100SMI5W	4100P5W
	4P 5W			120/208V AC 3ØY	5100SMI9W	5100P9W

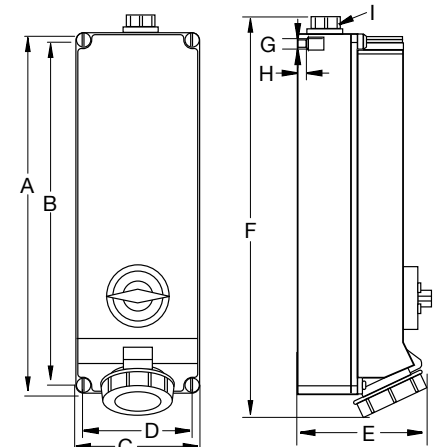
Note: *Mating plug sold separately.

Product Dimensions Inches (mm)

	20A	30/32A	60A
A	8.86" (225.0)	10.24" (260.0)	10.24" (260.0)
B	8.19" (208.0)	9.45" (240.0)	9.45" (240.0)
C	4.65" (118.0)	6.30" (160.0)	6.30" (160.0)
D	3.98" (101.0)	5.51" (140.0)	5.51" (140.0)
E	5.00" (127.0)	6.78" (172.0)	7.68" (195.0)
F	9.65" (245.0)	11.68" (297.0)	11.97" (304.0)
G	0.26" (6.5)	0.32" (8.1)	0.32" (8.1)
H	0.31" (8.0)	0.39" (10.0)	0.39" (10.0)
I	¾" NPT	1" NPT	1¼" NPT



	100A
A	18.11" (460.0)
B	17.32" (440.0)
C	7.09" (180.0)
D	6.30" (160.0)
E	8.19" (208.0)
F	20.08" (510.0)
G	0.33" (8.3)
H	0.26" (6.5)
I	1¼" NPT



Pin & Sleeve Devices



Technical Specifications - Watertight

Listings

UL Listed Standard 1682 (plugs, receptacles, and cable connectors of the pin & sleeve type)
Conforms to UL 1686 (pin & sleeve configuration)

CSA Certified C22.2 No. 182.1 - 13
Complies with IEC 60309-1 and 60309-2 International Standards for singly-rated non-interchangeable configurations
CE

Materials

Plug/Connector	
Housing, gland nut and cord clamp assembly	Toughened nylon
Cord gland	Neoprene
Seals/gaskets	Neoprene, EPDM, TPE
Phase/ground pins	Brass
Terminal screws	Plated steel
Terminal cover	Toughened nylon Glass-reinforced nylon (100A)
Contact carrier	Glass-reinforced nylon, Nylon (60A)
Gland friction washer	Plated carbon steel (30/60/100A) Nylon (20A)
Assembly screws	Stainless steel (60/100A) Plated steel (20/30A)
Plug	
Locking ring	Polycarbonate
Connector	
Cover ring	Polycarbonate
Cover spring	Stainless steel
Hinge pins	Brass
Sleeve spring	Nickel-plated spring steel

Receptacle/Inlet	
Housing/mounting flange	Toughened nylon
Mounting screws	Stainless steel
Seals/gaskets	Neoprene, EPDM, TPE
Phase/ground pins	Brass
Terminal screws	Plated steel
Terminal cover	Toughened nylon Glass-reinforced nylon (100A)
Contact carrier	Glass-reinforced nylon, Nylon (60A)
Receptacle	
Cover arm	Toughened nylon
Cover ring	Polycarbonate
Sleeve spring	Nickel-plated spring steel
Sleeve spring	Nickel-plated spring steel
Hinge pins	Brass
Inlet	
Mounting flange	Toughened nylon
Locking ring	Polycarbonate
Assembly screws	Stainless steel (60/100A), plated steel (20/30A)

Performance

Electrical	
Dielectric voltage withstand	3,000 Volts - receptacle, 2,200 Volts - plug and connector
Max. working voltage	600 Volts AC
Spacings	¼" minimum creepage and clearance per UL 1682
Current interrupting	Certified for current interrupting at full rated current where applicable per UL 1682
Temperature rise	Less than 30°C temperature rise at full rated current after 50 cycles of overload tested at 150% of rated current at 0.75 pf.
Endurance	Up to 5,000 connect and disconnect cycles at full rated current and voltage per UL 1682

Mechanical	
Impact resistance	After 6 hours at -25°C, 8 drops from 2½' with 7½' length cord
Mechanical crush test	250 lbs. force for 1 minute after 6 hours at -25°C
Terminal identification	Terminals identified in accordance with North American Codes
Product identification	Catalog number and rating indicated on device

Environmental	
Moisture resistance	Submerged 24 hours at 2" below water surface
Flammability (enclosure)	V2 minimum per UL 94
Operating temperatures	Maximum continuous 95°C with impact, minimum continuous -40°C without impact
Ingress protection	IP67 suitability
Polarization integrity	Mating devices will not energize ground if polarization feature is removed from housing and 40 lbs. force is applied

The following international electrical regulatory agencies recognize IEC 309 standard Pin & Sleeve devices.



Pin & Sleeve Devices

Technical Specifications - Splashproof



Listings

Complies with IEC 60309-1 and 60309-2 International Standards for singly-rated non-interchangeable configurations

CE
VDE

Materials

Plug/Connector

Housing, gland nut and cord clamp assembly	Toughened nylon
Cord gland	Neoprene
Seals/gaskets	Neoprene, EPDM, TPE
Phase/ground pins	Brass
Terminal screws	Plated steel
Terminal cover	Toughened nylon
Contact carrier	Glass-reinforced nylon
Gland friction washer	Plated carbon steel (30/60/100A) Nylon (20A)
Assembly screws	Plated steel

Connector

Cover spring	Stainless steel
Phase/ground sleeves	Brass
Sleeve spring	Nickel-plated spring steel
Hinge pins	Brass

Receptacle

Housing/mounting flange and cover arm	Toughened nylon
Cover spring	Stainless steel
Seals/gaskets	Neoprene, EPDM, TPE
Hinge pins	Brass
Contact carrier	Glass-reinforced nylon
Terminal cover	Toughened nylon
Phase/ground sleeves	Brass
Sleeve spring	Nickel-plated spring steel
Mounting screws	Stainless steel
Terminal screws	Plated steel

Performance

Electrical

Dielectric voltage withstand	3,000 Volts - receptacle, 2,200 Volts - plug and connector
Max. working voltage	500 Volts AC

Spacings	¼" minimum creepage and clearance
Current interrupting	Certified for current interrupting at full rated current

Endurance	Up to 5,000 connect and disconnect cycles at full rated current and voltage
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Mechanical

Impact resistance	After 6 hours at -25°C, 8 drops from 2½' with 7½' length cord
Mechanical crush test	250 lbs. force for 1 minute after 6 hours at -25°C
Terminal identification	Terminals identified in accordance with IEC 309
Product identification	Catalog number and rating indicated on device

Environmental

Flammability (enclosure)	V2 minimum per UL 94
Operating temperatures	Maximum continuous 95°C with impact, minimum continuous -40°C without impact
Ingress protection	IP44 suitability
Polarization integrity	Mating devices will not energize ground if polarization feature is removed from housing and 40 lbs. force is applied

The following international electrical regulatory agencies recognize IEC 309 standard Pin & Sleeve devices.



Technical Specifications - Mechanical Interlock

Listings

UL 508 - Industrial control equipment, manual motor controller
 CSA Certified C22.2 No. 14
 Complies with UL 50, UL 746C and IEC 60309
 Configuration meets UL 1686
 IP67 suitability

Materials

Enclosure base	Valox®
Enclosure cover	Valox®
Handle	Valox®
Enclosure gasket	Neoprene
Enclosure screws	Valox®
Hinge pins	Stainless steel
Hinge spring	Stainless steel
Conduit hub	Zinc
Ground plate	Galvanized steel
Cover gasket	Neoprene

Performance

Electrical	
Dielectric voltage withstand	3,000 volts min.
Max. working voltage	600 Volts RMS
Current interrupting	Certified for current interrupting at full rated current and voltage
Short circuit withstand rating	Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes at the voltage rating of the receptacle (30, 60, 100A)
Operations	Mechanical - 10,000 cycles Electrical - 6,000 cycles
Mechanical	
Impact resistance	In accordance with UL 746C
Terminal identification	In accordance with UL, CSA and international conventions
Product identification	Identification and ratings are part of the external label
Environmental	
Moisture resistance	Outdoor - 4x (watertight, washdown) IP67, indoor 12 (dust-tight, falling dirt and non-corrosive liquids)
Flammability	UL94-5V and VO classification
Operating temperature	Max. continuous +60° C, Min. continuous -40° C
UV resistance	All exposed materials are UV stabilized

Horsepower Ratings

Catalog Number	Amps	Rating	Horsepower
420SMI9W	20	240V AC 3Ø	5
420SMI7W	20	480V AC 3Ø	10
420SMI5W	20	600V AC 3Ø	15
330SMI4W	30	120V AC	2
330SMI6W	30	240V AC	3
330SMI7W	30	480V AC	7.5
430SMI9W	30	240V AC 3Ø	7.5
430SMI7W	30	480V AC 3Ø	15
430SMI5W	30	600V AC 3Ø	20
530SMI9W	30	120/208V AC 3ØY	5
530SMI7W	30	277/480V AC 3ØY	15
432SMI3W	32	380V AC 3Ø 50 Hz 440V AC 3Ø 60Hz	15 (440V AC 3Ø 60 Hz)

Catalog Number	Amps	Rating	Horsepower
360SMI4W	60	120V AC	3
360SMI6W	60	240V AC	7.5
360SMI7W	60	480V AC	20
460SMI9W	60	240V AC 3Ø	15
460SMI7W	60	480V AC 3Ø	30
460SMI5W	60	600V AC 3Ø	40
560SMI9W	60	120/208V AC 3ØY	15
560SMI7W	60	277/480V AC 3ØY	30
560SMI5W	60	347/600V AC 3ØY	40
3100SMI6W	100	240V AC	15
4100SMI9W	100	240V AC 3Ø	25
4100SMI7W	100	480V AC 3Ø	40
4100SMI5W	100	600V AC 3Ø	50
5100SMI9W	100	120/208V AC 3ØY	20