

# IEC 309 Plugs, Connectors, Receptacles, and Inlets

NEMA 4X  
IP66  
Watertight

**5P**

## Non-hazardous Heavy Duty Industrial

### Applications:

- Where complete protection against dirt, dust, and water jets is required
- In damp or corrosive locations
- In areas prone to vibration, hard use, and abuse
- In environments that demand safety, ease of use, reliability, and durability
- Ideal for heavy duty industrial applications, such as: shipyards, military, marine/marina environments, pulp and paper, heavy manufacturing, wastewater treatment, portable power

### Features:

- Voltage, configured, color coded
- Watertight
- Impact- and corrosion-resistant
- Receptacles mount to Eaton's Crouse-Hinds back boxes
- Innovative finger lock keeps cord grip secured
- Positive grommet seal system at cord entry
- Funneled wire pockets
- Lockout/tagout
- High grade brass contacts
- VØ insulating material
- Multi-lam sleeve bands

### Certifications and Compliances:

- IEC 309-1 and 309-2
- NEMA 4X
- IEC IP66
- 20 Amp & 30 Amp
- Certified to CSA C22.2 No. 182.1 and UL1682
- 60 Amp & 100 Amp
- Complies with CSA C22.2 No. 182.1 and UL1682

### Making a Connection is Easy

A clock face is used to represent the grounding contact position for all female connectors and receptacles. With the keyway at the bottom, the female grounding contact will appear to one of the twelve hour positions. To identify the system voltage, identify the housing color and hour location of the connector or receptacle grounding contact.

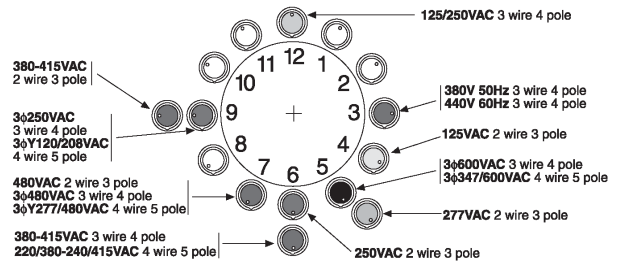
### Ordering is Easy

GH Prefix	4 1st digit	20 2nd-4th digit	R 1st letter	7 Last digit	W Last letter
GH = Eaton's Crouse-Hinds Heavy Duty Industrial	3 = 3 pole 4 = 4 pole 5 = 5 pole	16 = 16 Amp 20 = 20 Amp 30 = 30 Amp 32 = 32 Amp 60 = 60 Amp 63 = 63 Amp 100 = 100 Amp 125 = 125 Amp	P = Plug C = Connector R = Receptacle Straight B = Inlet MI = Mechanical Interlock	Clock position of female grounding contact	W = Watertight



### Standard Materials:

- Receptacle, Plug, Inlet and Connector Housings - type 12 nylon
- Contact Carrier - glass fiber-reinforced nylon 6/6
- Pins and Sleeves - brass, nickel plated
- Multi-lam Bands - copper beryllium, nickel plated
- Assembly Screws - stainless steel
- Hinge Pin - stainless steel
- Gaskets - silicon



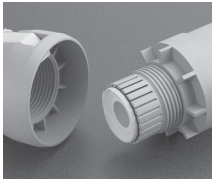
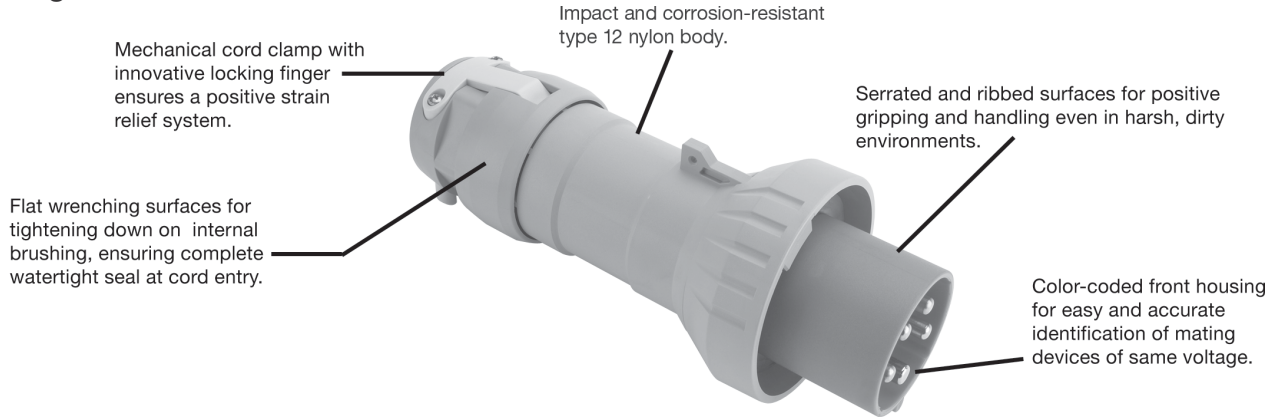
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# IEC 309 Plugs, Connectors, Receptacles, and Inlets

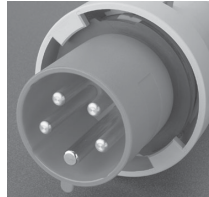
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Watertight

## Non-hazardous Heavy Duty Industrial

### Plug



Locking finger seats into web pockets when cord grip is tightened down, securing back cap in place even under heavy usage and vibration.

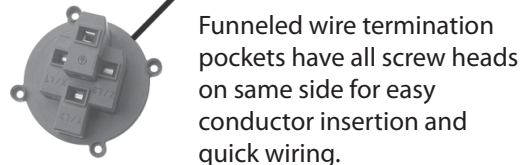
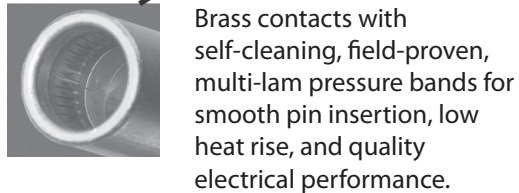
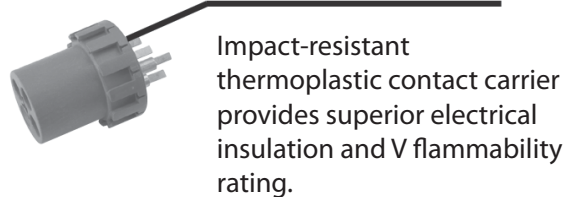
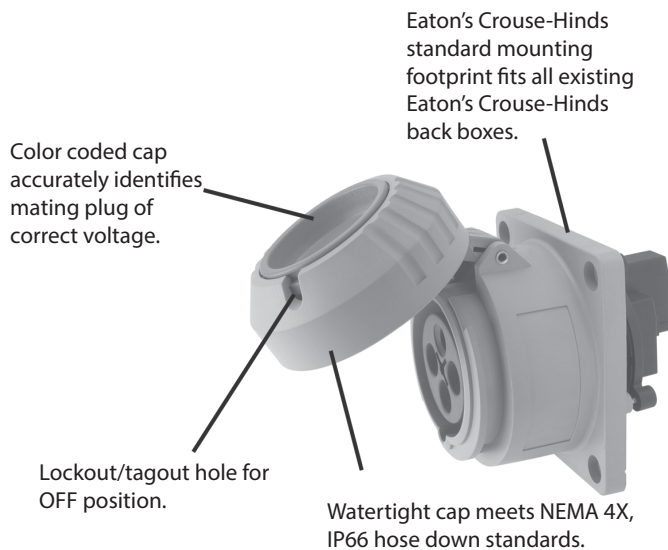


Nickel-plated brass contacts offer long-life corrosion protection. Compression lugs provide reliable mechanical wire termination.



Funneled wiring pockets for ease of inserting stranded wire. Deep pocket marked X, Y, and Z keep bare conductors safely confined and isolated from adjacent wires.

### Receptacle



**Crouse-Hinds**  
by **E.T.N**

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# IEC 309 Pin and Sleeve Mechanical Interlocks

NEMA 4X  
IP66  
Watertight

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**Non-hazardous Heavy Duty Industrial  
20 & 30A - North American Ratings Series 2  
16 & 32A - International Ratings Series 1**

### Applications:

- To supply power to portable or fixed electrical equipment, such as welders, motor generator sets, compressors, conveyors, portable tools, lighting systems, and similar equipment
- In damp or corrosive locations
- In wet locations
- In hose down areas

### Features:

- Mechanically interlocked, dead-front receptacle - plug cannot be engaged or disengaged under load
- Enclosure has continuous form-in-place gasket
- Meets OSHA's lockout/tagout requirements - can be padlocked in "OFF" position
- Industrial switch is horsepower rated for motor load applications

### Certifications and Compliances:

- UL Standards: 508, 1682
- CSA Standard: C22.2 Nos. 14, 182.1
- Enclosure type: 3, 4X, 12
- IP66

### Standard Materials:

- Enclosure - glass reinforced polyamide (GRP)
- External Hardware - stainless steel
- Contacts - brass, nickel plated
- Contact Carrier - glass fiber reinforced nylon 6/6

### Options:

Description	Suffix
Auxiliary contacts for PLC or pilot light applications.....	<b>S483</b>



5P

# IEC 309 Pin and Sleeve Mechanical Interlocks

Non-hazardous Heavy Duty Industrial  
20 & 30A - North American Ratings Series 2  
16 & 32A - International Ratings Series 1

NEMA 4X  
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OSHA lockout/tagout handle

GRP housing provides superior corrosion and impact resistance.

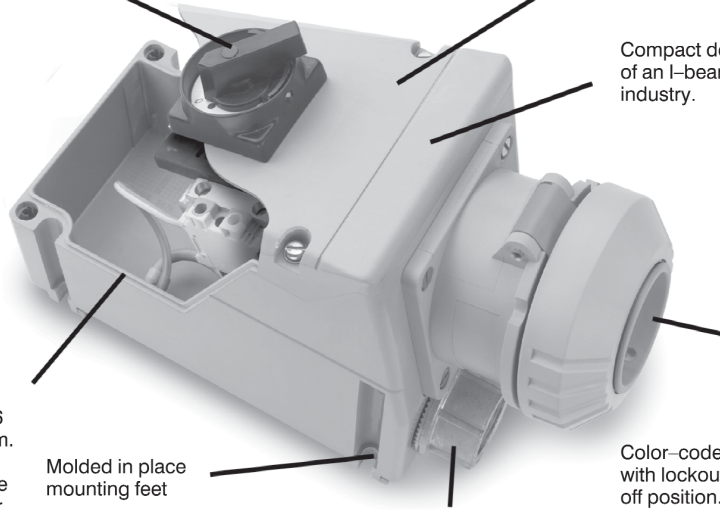
Compact design fits in the web of an I-beam – smallest in the industry.

Tongue and groove IP66 watertight sealing system. Continuous raised rib around perimeter of base seats in channel in cover. Channel has a seamless, one-piece gasket that stays in place when cover is removed.

Molded in place mounting feet

Myers® NPT or metric threaded hubs for IEC connectors.

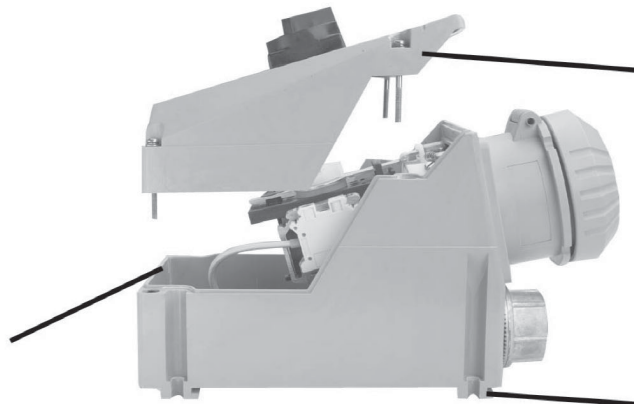
Color-coded receptacle cover with lockout/tagout hole for off position.



Thick, sturdy walls won't warp from hot and cold water washdown. Maintains gasket seal between cover and box.

Easy to wire. Cover removes along an innovative break line that permits full access to internal switch terminations.

Raised mounting pads allow firm mounting to uneven surfaces. Provides water channel between wall and enclosure.



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**Non-hazardous Heavy Duty Industrial**  
**20 and 30A - North America Ratings Series 2**  
**16 and 32A - International Ratings Series 1**

## Ordering Information:

Amps	Wires & Poles	Configuration		Voltage	Watertight Devices				
		Recept./Conn.	Plug/Inlet		Receptacle	Plug	Connector	Inlet	Interlock Unfused
16A	2W3P			110-120	GH316R4W	GH316P4W	GH316C4W	GH316B4W	GH316MI4W*
	2W3P			220-240	GH316R6W	GH316P6W	GH316C6W	GH316B6W	GH316MI6W*
	3W4P			380-415	GH416R6W	GH416P6W	GH416C6W	GH416B6W	GH416MI6W
	4W5P			220/380 240/415	GH516R6W	GH516P6W	GH516C6W	N/A	GH516MI6W*
20A	2W3P			125	GH320R4W	GH320P4W	GH320C4W	GH320B4W	GH320MI4W*
	2W3P			250	GH320R6W	GH320P6W	GH320C6W	GH320B6W	GH320MI6W*
	2W3P			480	GH320R7W	GH320P7W	GH320C7W	GH320B7W	GH320MI7W*
	3W4P			125/250	GH420R12W	GH420P12W	GH420C12W	GH420B12W	GH420MI12W
	3W4P			3Ø250	GH420R9W	GH420P9W	GH420C9W	GH420B9W	GH420MI9W
	3W4P			3Ø480	GH420R7W	GH420P7W	GH420C7W	GH420B7W	GH420MI7W
	3W4P			3Ø600	GH420R5W	GH420P5W	GH420C5W	GH420B5W	GH420MI5W
	4W5P			3ØY120/208	GH520R9W	GH520P9W	GH520C9W	N/A	GH520MI9W*
	4W5P			3ØY277/480	GH520R7W	GH520P7W	GH520C7W	N/A	GH520MI7W*
	4W5P			3ØY347/600	GH520R5W	GH520P5W	GH520C5W	N/A	GH520MI5W*
30A	2W3P			125	GH330R4W	GH330P4W	GH330C4W	GH330B4W	GH330MI4W
	2W3P			250	GH330R6W	GH330P6W	GH330C6W	GH330B6W	GH330MI6W
	2W3P			480	GH330R7W	GH330P7W	GH330C7W	GH330B7W	GH330MI7W
	3W4P			125/250	GH430R12W	GH430P12W	GH430C12W	GH430B12W	GH430MI12W
	3W4P			3Ø250	GH430R9W	GH430P9W	GH430C9W	GH430B9W	GH430MI9W
	3W4P			3Ø480	GH430R7W	GH430P7W	GH430C7W	GH430B7W	GH430MI7W
	3W4P			3Ø600	GH430R5W	GH430P5W	GH430C5W	GH430B5W	GH430MI5W
	4W5P			3ØY120/208	GH530R9W	GH530P9W	GH530C9W	N/A	GH530MI9W
	4W5P			3ØY277/480	GH530R7W	GH530P7W	GH530C7W	N/A	GH530MI7W
	4W5P			3ØY347/600	GH530R5W	GH530P5W	GH530C5W	N/A	GH530MI5W
32A	2W3P			110-120	GH332R4W	GH332P4W	GH332C4W	GH332B4W	GH332MI4W
	2W3P			220-240	GH332R6W	GH332P6W	GH332C6W	GH332B6W	GH332MI6W
	3W4P			380-415	GH432R6W	GH432P6W	GH432C6W	GH432B6W	GH432MI6W
	4W5P			220/380	GH532R6W	GH532P6W	GH532C6W	N/A	GH532MI6W

\*Alternate Switch Design. Does not have a switch handle. Switch is activated by inserting plug; rotating plug to turn switch 'ON'.























































# 5P

# IEC 309 Pin and Sleeve Mechanical Interlocks

NEMA 4X  
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Watertight

**Non-hazardous Heavy Duty Industrial**  
**60 and 100A - North America Ratings Series 2**  
**63 and 125A - International Ratings Series 1**

## Ordering Information:

Amps	Wires & Poles	Configuration		Voltage	Watertight Devices				
		Recept./Conn.	Plug/Inlet		Receptacle	Plug	Connector	Inlet	Interlock Unfused
60A	2W3P			125	GH360R4W	GH360P4W	GH360C4W	GH360B4W	GH360MI4W
	2W3P			250	GH360R6W	GH360P6W	GH360C6W	GH360B6W	GH360MI6W
	2W3P			480	GH360R7W	GH360P7W	GH360C7W	GH360B7W	GH360MI7W
	3W4P			125/250	GH460R12W	GH460P12W	GH460C12W	GH460B12W	GH460MI12W
	3W4P			3Ø250	GH460R9W	GH460P9W	GH460C9W	GH460B9W	GH460MI9W
	3W4P			3Ø480	GH460R7W	GH460P7W	GH460C7W	GH460B7W	GH460MI7W
	3W4P			3Ø600	GH460R5W	GH460P5W	GH460C5W	GH460B5W	GH460MI5W
	4W5P			3ØY120/208	GH560R9W	GH560P9W	GH560C9W	GH560B9W	GH560MI9W
	4W5P			3ØY277/480	GH560R7W	GH560P7W	GH560C7W	GH560B7W	GH560MI7W
	4W5P			3ØY347/600	GH560R5W	GH560P5W	GH560C5W	GH560B5W	GH560MI5W
63A	2W3P			220-240	GH363R6W	GH363P6W	GH363C6W	GH363B6W	GH363MI6W
	3W4P			380-415	GH463R6W	GH463P6W	GH463C6W	GH463B6W	GH463MI6W
	4W5P			220/380 240/415	GH563R6W	GH563P6W	GH563C6W	GH563B6W	GH563MI6W
100A	2W3P			125	N/A	GH3100P4W	GH3100C4W	GH3100B4W	GH3100MI4W
	2W3P			250	N/A	GH3100P6W	GH3100C6W	GH3100B6W	GH3100MI6W
	2W3P			480	N/A	GH3100P7W	GH3100C7W	GH3100B7W	GH3100MI7W
	3W4P			125/250	N/A	GH4100P12W	GH4100C12W	GH4100B12W	GH4100MI12W
	3W4P			3Ø250	N/A	GH4100P9W	GH4100C9W	GH4100B9W	GH4100MI9W
	3W4P			3Ø480	N/A	GH4100P7W	GH4100C7W	GH4100B7W	GH4100MI7W
	3W4P			3Ø600	N/A	GH4100P5W	GH4100C5W	GH4100B5W	GH4100MI5W
	4W5P			3ØY120/208	N/A	GH5100P9W	GH5100C9W	GH5100B9W	GH5100MI9W
	4W5P			3ØY277/480	N/A	GH5100P7W	GH5100C7W	GH5100B7W	GH5100MI7W
125A	4W5P			3ØY347/600	N/A	GH5100P5W	GH5100C5W	GH5100B5W	GH5100MI5W
	2W3P			220-240	GH3125R6W	GH3125P6W	GH3125C6W	GH3125B6W	GH3125MI6W
	3W4P			380-415	GH4125R6W	GH4125P6W	GH4125C6W	GH4125B6W	GH4125MI6W
	4W5P			220/380 240/415	GH5125R6W	GH5125P6W	GH5125C6W	GH5125B6W	GH5125MI6W

# Angled Back Box Adapters

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## Non-hazardous Heavy Duty Industrial For 20, 30, 60 & 100 Amp IEC 309 Receptacles and Inlets

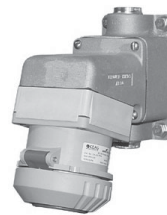
Eaton's Crouse-Hinds Angled Back Box Adapters install IEC 309 receptacles or inlets to existing back boxes at a 15° angle, eliminating plug cord stress and maximizing wiring capacity.

Designed with a square footprint, the angled back box adapter allows the conduit openings to be positioned vertically or horizontally.

### Features:

- Square footprint on adapter allows back box conduit openings to be positioned vertically or horizontally
- 15° angle eliminates cord stress on attached plug
- Heavy duty cast aluminum back boxes are ideal for abusive environments
- Epoxy powder coat finish available for additional corrosion resistance
- Stainless steel hardware
- Quick and easy to install
- Neoprene gasket provided between adapter and back box for additional weather resistance

Angled adapters install directly onto existing Eaton's Crouse-Hinds Back Boxes!



20/30 Amp



60 Amp

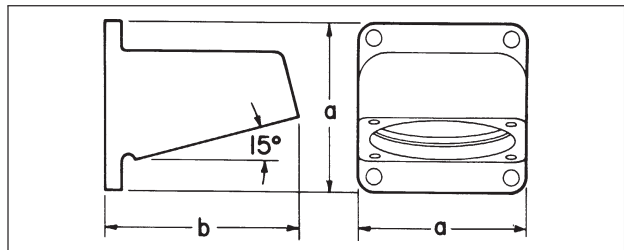


100 Amp

### Ordering Information:

Rating of Receptacle or Inlet	Angled Adapter Cat. #	Mating Square Back Box Cat. #
20A	AR30	ARRH/ARRC 13, 23, 33
30A	AR30	ARRH/ARRC 13, 23, 33
60A	AR601	ARRH/ARRC 36, 46, 56
100A	AR100	AJ/AJC 46, 56

### Dimensions In Inches:



Cat. #	A	B	Receptacle/Inlet Footprint
AR30	3.4	3.9	2.74 × 2.74
AR601	4.3	4.9	3.03 × 3.34
AR100	5.9	6.2	4.09 × 4.09

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# 5P Adapter Plates

## Non-hazardous Heavy Duty Industrial For 20, 30, 60 & 100 Amp IEC 309 Receptacles and Inlets

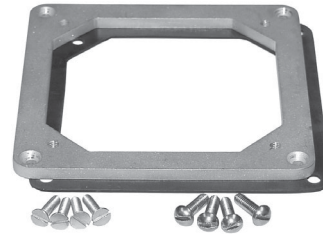
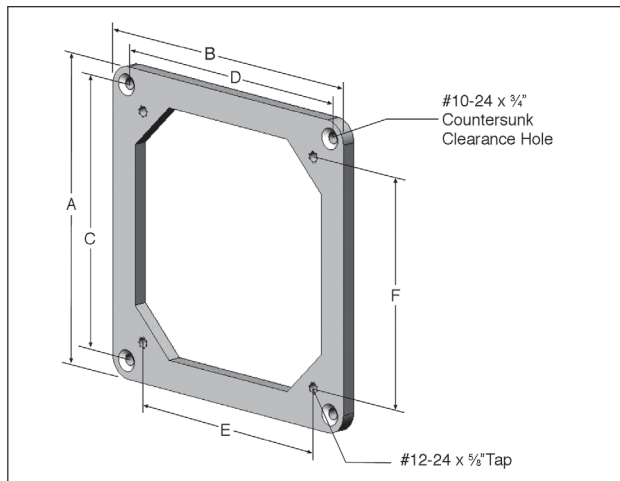
Eaton's Crouse-Hinds H-Series Adapter Plates permit an Eaton's Crouse-Hinds IEC 309 receptacle or inlet to be mounted to back boxes of other manufacturers. Please ask your sales representative for further assistance.

### Features:

- Heavy duty aluminum plate fits directly to the Hubbell footprint
- Adapter plate is engineered to be used with the gasket that is provided with the Eaton's Crouse-Hinds receptacle or inlet
- Provided gasket maintains watertight integrity between adapter plate and back box
- Stainless steel hardware provided for attaching adapter plate to back box and receptacle or inlet to adapter plate
- Corrosion-resistant
- Quick and easy to install

### Dimensions

In Inches:



### Ordering Information:

Rating of Eaton's Crouse-Hinds Receptacle or Inlet	Cat. # of Hubbell Back Box	Adapter Plate Cat. #
20A/30A	BB201W/BB301W	CHAP30H
60A	BB601W/BB602W	CHAP60H
100A	BB1001W/BB1002W	CHAP100H

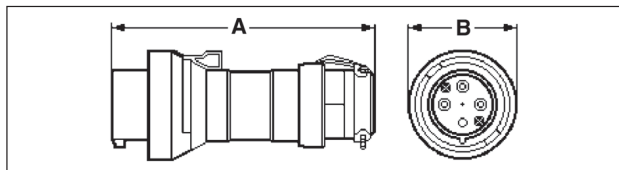
Cat. #	Overall Size		Hubbell Footprint		Eaton's Crouse-Hinds Footprint	
	A	B	C	D	E	F
CHAP30H	4.03	3.78	3.13	3.13	2.74	2.74
CHAP60H	4.53	4.53	3.88	3.88	3.03	3.35
CHAP100H	5.53	5.53	4.88	4.88	4.09	4.09



## Non-hazardous Heavy Duty Industrial Dimensions

### Plug Dimensions

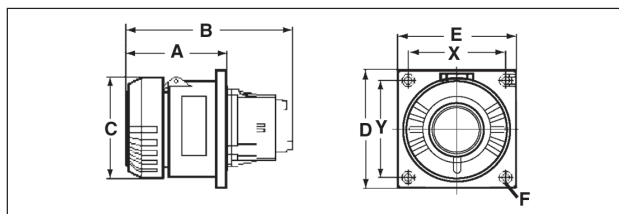
In Inches:



Amps	A	B	Cord Range		
			3-Pole	4-Pole	5-Pole
20/16A	7.37	3.00	0.315-0.748	0.315-0.748	0.472-0.827
30/32A	7.37	3.00	0.314-0.748	0.315-0.748	0.472-0.827
60/63A	10.71	4.33	0.630-1.378	0.630-1.378	0.827-1.378
100/125A	12.32	5.16	0.827-1.89	0.827-2.28	1.22-2.28

### Receptacle Dimensions

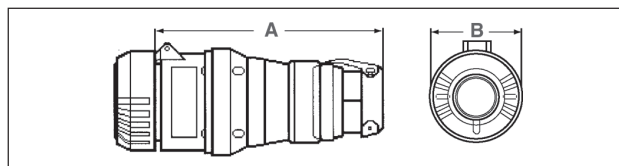
In Inches:



Amps	A	B	C	D	E	F Dia.	MTC. X	Dims. Y
30/32A	3.35	4.92	3.74	3.38	3.38	0.236	2.74	2.74
60/63A	4.57	6.18	4.61	4.13	4.13	0.236	3.50	3.50
100/125A	4.81	6.56	4.80	5.12	5.32	0.250	4.09	4.09

### Connector Dimensions

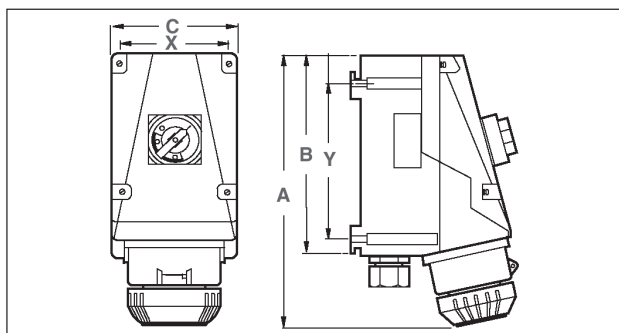
In Inches:



Amps	A	B	Cord Range		
			3-Pole	4-Pole	5-Pole
20/16A	8.58	3.38	0.315-0.748	0.315-0.827	0.472-0.827
30/32A	10.40	3.82	0.315-0.748	0.315-0.827	0.472-0.827
60/63A	12.52	4.61	0.630-1.378	0.630-1.378	0.827-1.378
100/125A	13.40	5.32	0.827-1.89	0.827-2.28	1.22-2.28

### Interlock Dimensions

In Inches:

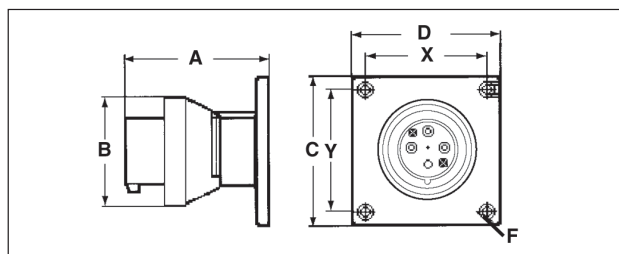


Amps	A	B	C	X	Y	20, 30, 60, 100A Hub	16, 32, 63, 125A Cable Gland
20/16A	9.3	6.9	4.3	3.9	5.3	3/4	M25
30/32A	11.2	8.07	4.7	4.3	6.7	1	M32
60/63A	18.7	12.3	7.9	7.1	10.9	1 1/4	M40
100/125A	21.1	13.3	8.9	8.1	11.9	1 1/2	M63

\*3 Pole only.

### Inlet Dimensions

In Inches:

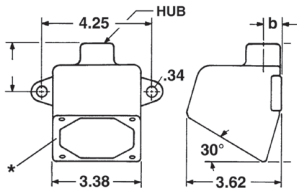


Amps	A	B	C	D	F Dia.	MTC. X	Dims. Y
30/32A	4.26	3.75	3.38	3.38	0.236	2.74	2.74
60/63A	5.44	4.34	4.13	4.13	0.236	3.50	3.50
100/125A	5.48	5.20	5.12	5.32	0.250	4.09	4.09

# 5P IEC 309 Pin and Sleeve Devices

## Non-hazardous Heavy Duty Industrial Accessories

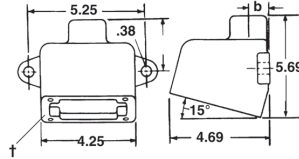
### Back Box Dimensions In Inches:



Cat. #	Hub	A	B
ARE13	1/2	1.84	0.69
ARE23	3/4	1.84	0.81
ARE33	1	1.97	0.94

\*Footprint: 2.74 x 2.74

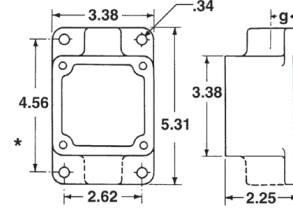
### 60A & 63A Cast Aluminum



Cat. #	Hub	A	B
ARE36	1	2.56	0.69
ARE46	1 1/4	2.62	1.19
ARE56	1 1/2	2.69	1.31

†Footprint: 5.4 x 2.74

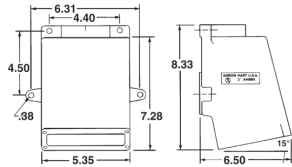
### 16, 20, 30, & 32A Cast Aluminum



Cat. #	Hub	Hub Config.	G
ARRH13	1/2	Dead End	0.69
ARRH23	3/4	Dead End	0.81
ARRH33	1	Dead End	0.94
ARRC13	1/2	Feed Thru	0.69
ARRC23	3/4	Feed Thru	0.81
ARRD33	1	Feed Thru	0.94

\*Footprint: 2.74 x 2.74

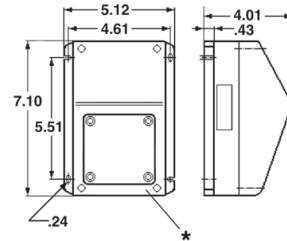
### 100A & 125A Cast Aluminum



Cat. #	Type
CHBB1	100A & 125A Cast Aluminum

‡Footprint: 4.09 x 4.09

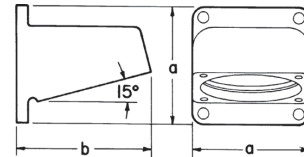
### 30A Non-metallic



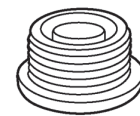
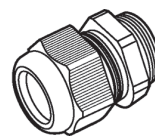
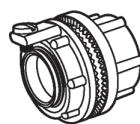
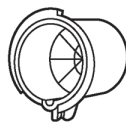
Cat. #	Type
CHBB2	30A Non-metallic

\*Footprint: 2.74 x 2.74 (Not UL Listed)

### Aluminum Fits ARRH and ARRC 30A Angle Adapter Cast



Cat. #	A	B
AR30	3.38	4.12



Type	Plug Closure Cap	Enclosure Myers Hub	Enclosure Cable Gland	Enclosure Closure Plug
20/16A	3-pole	CHCC320	STM 1	CHCG20
	4-pole	CHCC420	STM 2	CHCG25
	5-pole	CHCC520		
30/32A	3-pole	CHCC3430	STM 3	CHCG40
	4-pole	CHCC530		
	5-pole			
60/63A	3-pole	CHCC60	STM 4	CHCG50
	4-pole			
	5-pole			
100/125A	3-pole	CHCC100	STM 5	CHCG63
	4-pole			
	5-pole			