



PIN AND SLEEVE DEVICES



REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

UL 1682

Plugs, receptacles and cable connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

VERSIONS



Plugs and connectors



Appliance inlets



Receptacle



Accessories Back Box and closure caps



Liquid tight adapter

QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



EUREKA-HD SERIES

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

■ WIRING AND INSTALLATION

Cross-section of connectable conductors (awg/mm²)

Rated current		Plugs, connectors and appliance inlets				Receptacle			
Series I	Series II	Min awg	mm²	Max awg	mm²	Min awg	mm²	Max awg	mm²
16A	20A	16	1	12	2.5	16	1.5	12	4
32A	30A	14	2.5	10	6	14	2.5	8	10
63A	60A	10	6	6	16	10	6	4	25
125A	100A	6	16	2	50	4	25	0	70

Cord grip range

(Plugs and connectors)

Rated current		Outside Ø mm			
Series I	Series II	Min awg	mm²	Max awg	mm²
16A	20A	.570	14	.710	18
32A	30A	.675	17	.910	23
63A	60A	.937	24	1.375	35
125A	100A	1.265	32	1.790	45

■ TECHNICAL CHARACTERISTICS FOR BACK BOX

Protection degree (IEC 60529):	IP66/IP67
Operating ambient temperature:	-25°C +40°C
Max. operating ambient temperature:	+70°C
Self-extinguishing (IEC 60695-2-I):	GW test 850°C
Self-extinguishing (UL94):	5VA (3mm)
Material:	PC siloxane
IK degree at 20°C (EN 50102):	IK10 (20J)

■ TECHNICAL CHARACTERISTICS FOR PIN & SLEEVE

Rated current:	16A - 32A - 63A - 125A (SERIES I) 20A - 30A - 60A - 100A (SERIES II)
Rated voltage:	100÷690V~
Frequency:	D.C. - 50÷500Hz
Insulating voltage:	500/690V~
Protection degree (IEC 60529):	IP44 - IP67
Operating ambient temperature according to the reference standard:	-25°C + 40°C
Max. operating ambient temperature:	+70°C
Self-extinguishing (IEC 60695-2-I):	GW test 650°C / 850°C
Self-extinguishing (UL94):	V1 (3mm)
Material:	VALOX®
IK degree at 20°C (EN 50102):	IK10 (20J)

Short Circuit Rating: In the United States and Canada, a device having a motor rating of more than 1 HP (746 W) shall be subjected to the tests in accordance with the standard UL 1682 and CSA C22.2 NO. 182.1-13 when protected by a fuse or circuit breaker.

The short circuit rating of Scame Pin & Sleeve is 10000 Amps RMS when protected by a fuse having the same rating as the device.

■ PERFORMANCE - ELECTRICAL (SERIES I)

Dielectric Voltage withstand:	3000 Volts for 1 minute per IEC 60309-1, Clause 19
Maximum Working Voltage:	690VAC/250 VDC (minimum creepage and clearances per IEC)
Current Interrupting/ Load Breaking:	Tested to 125% rated current at 110% rated voltage per IEC309-1 clause 20
Temperature Rise:	Maximum 50°C rise at rated current per IEC309-1 Clause 22, Table 8
Endurance with Load:	16 Amp: 5000 cycles; Load only
Per IEC 60309-1 Clause 21:	32 Amp: 1000 cycles - Alternating load 63 Amp: 1000 cycles - Alternating load 125 Amp: 250 cycles - Alternating load

■ PERFORMANCE - ELECTRICAL (SERIES II)

Dielectric Voltage Withstand:	3000 Volts for 1 minute (fixed devices) 2200 Volts for 1 minute (portable devices)
Maximum Working Voltage:	600VAC/250 VDC (minimum creepage and clearances per UL 840)
Current Interrupting/ Load Breaking:	Tested to 150% of full rated current for circuit interrupting
Temperature Rise:	Maximum 30°C rise at full rated current after 50 cycles overload at 150% rated load at 0.75-pf
Horsepower Ratings:	Per Nec 430-151b reference for non-interrupting ratings
Endurance with Load:	20 Amp: 5000 cycles; Load only
Per IEC 60309-1 Clause 21:	30 Amp: 1000 cycles - Alternating load 60 Amp: 1000 cycles - Alternating load 100 Amp: 250 cycles - Alternating load

■ MATERIALS FOR PIN & SLEEVE (SERIES I & II)

Housing:	Valox®
Contact Carriers:	Valox®
Cable Gland Nut:	Valox®
Cable Bushing:	Solid neoprene, onion ring type
O-Ring, Seals & Gaskets:	Solid neoprene
Pins & Sleeves:	Nickel plated brass
Sleeve Force Ring:	Zinc plated steel
Terminal Screws:	Nickel plated steel
Flap/Screw Cover Springs:	Stainless steel
SNAP-ON Spring:	Stainless steel
Mounting Flanges:	Valox®

■ PERFORMANCE - MECHANICAL (SERIES I)

Cold (-25°C) Impact Resistance:	Per IEC 60309-1 Clause 24; (-25°C) with 75cm drop
Cable O.D. Accommodation:	Round portable service cords from 14.5mm O.D. through 50mm O.D.
Terminal Identification:	In accordance with IEC 60309-1 standards; as L1-L2-L3-N-G
Cable Pull-Out Force:	In accordance with IEC 60309-1, Clause 23

■ PERFORMANCE - MECHANICAL (SERIES II)

Cold (-25°C) Impact Resistance:	Per UL 1682 Section 34 and IEC 60309-1 Clause 24
Cable O.D. Accommodation:	Round portable service cord from 0.57" O.D. through 1.79" O.D.
Terminal Identification:	In accordance with UL 1682 standards and IEC 60390-1: as L1-L2-L3-N-G
Cable Pull-Out Force:	Per UL 1682 Section 33 and IEC 60309-1 Clause 23

■ PERFORMANCE - ENVIRONMENTAL (SERIES I & II)

Corrosion Resistance:	All metallic components stainless steel or nickel plated brass Sleeve pressure rings of zinc plated steel
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■ MATERIALS FOR BACK BOX (SERIES I & II)

Housing:	PC siloxane
Gasket:	Solid neoprene
Screws:	Stainless steel
Grounding plate:	zinc-coated steel

Standard Interface / World Ready

Full International Compliances

EN 60309

UL Classification to IEC 60309-1 and IEC 60309-2.

cULus Listing: UL 1682/1686 and CSA C22.2

No. 182.1.

CE conforms to EC Low Voltage Directive.

North American and Global Voltage

Polarization "clock positions" available in all standard ratings.

Solid, Safe Voltage Selections

One-Piece contact carriers with Full-Color IEC standard voltage-phasing Coding ensures correct product application every time.

EUREKA-HD SERIES

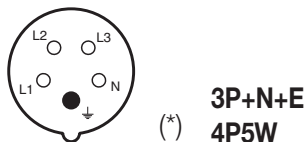
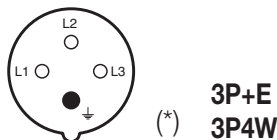
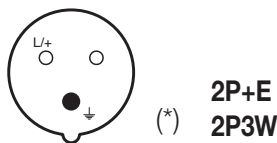
Industrial Pin & Sleeve for North American Configurations (Series II)

COLOUR CODE CLOCK POSITION

The operating voltage is identified by conventional colours as shown in the table:

RATED VOLTAGE	COLOUR
110-130V	Yellow
208-250V	Blue
380-480V	Red
500-690V	Black
277V	Grey
125/250V	Orange

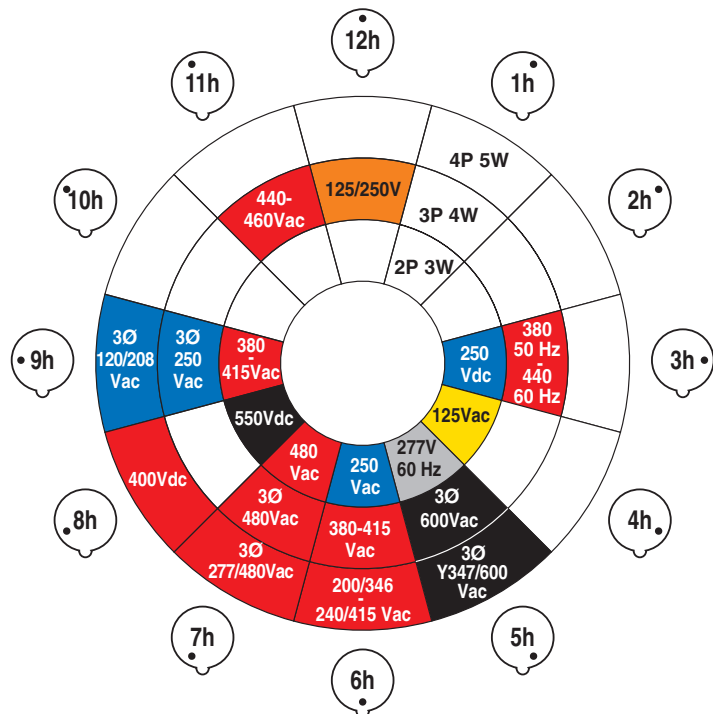
CONNECTOR AND RECEPTACLE (FRONT VIEW)



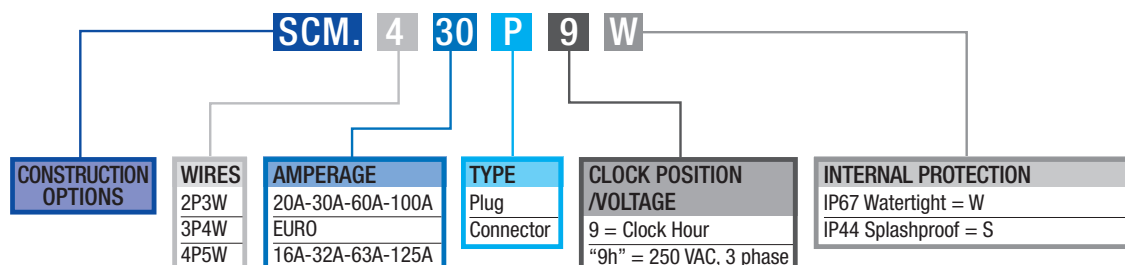
(*) Major keyway

CLOCK FACE POSITION

North American ratings viewing connector and receptacle from the front, clock hour position (h) is established by the position of the earth contact respect the major keyway which is always situated at 6h clock position.



CATALOGUE NUMBERING SYSTEM



■ WATERTIGHT – IP67



IP67

Watertight design and construction meet stringent IP67 internal protection standards.

Rugged thermoplastic housings resist impact or abuse and provide excellent corrosion resistance.

Unique Scame strain relief grip and sealing system assure superior cable retention and watertight conductor termination.

Ideal for outdoor, wet marine and washdown applications.

Unique 75% faster assembly with Snap-on handle locking, and cable grip system.

■ SPLASHPROOF – IP44



IP44

Suitable for indoor use where splashing liquids and other contaminants may interfere with electrical connections.

Ideal for most heavy commercial applications and light industrial applications.

Available 16A, 20A, 30A and 32A Amp ratings.

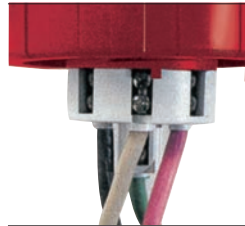


No Tools, No Screws Necessary

Snap-on locking handle saves 75% on assembly time.

Unique Snap-on assembly feature on 16A, 20A, 30A and 32A Amp plugs and connectors makes installation and inspection fast and reliable.

Captive gaskets in handles seal out water, chemicals and dust.



Easy Action Single-Wiring Point Access Saves Time Wiring

All terminal screws face in same direction allowing installer to make safe and secure conductor terminations in 30% less time than other devices. Rugged, corrosion free thermoplastic housings are colour-coded for safe reliable connections to all other mating type /polarizations, with raised earth terminal standard.



Simple Cable Clamping

Threaded cable gland on 16/32A and 20/30A devices makes assembly fast and easy.

One-piece lock screw verifies clamp locking hold, with no external metal contact possible (16/32A and 20/30A devices).



Unique and Quick

One-piece cable gland with locking screw loads to cable followed by cable grip 6-Finger cable clamp/grip piece.

Watertight onion ring bushing fits a wide variety of outside diameters.



Watertight and cable Grip Safety

Grip cable flexible 6-Finger clamp teeth holds well beyond all agency test pullout forces.

No internal clamps required.

Available in all amperages.



The Performance Connection

Watertight spring-loaded covers with high-strength flex-hinge screw covers on IP67 devices.

Flap covers on IP44 splashproof styles.

Safety, performance and durability for all EN 60309 applications worldwide.

EUREKA-HD SERIES

■ WATERTIGHT – IP67

Safe Connections Standard

- Earth contacts make first, break last for safe connections even under load



The Easy Way

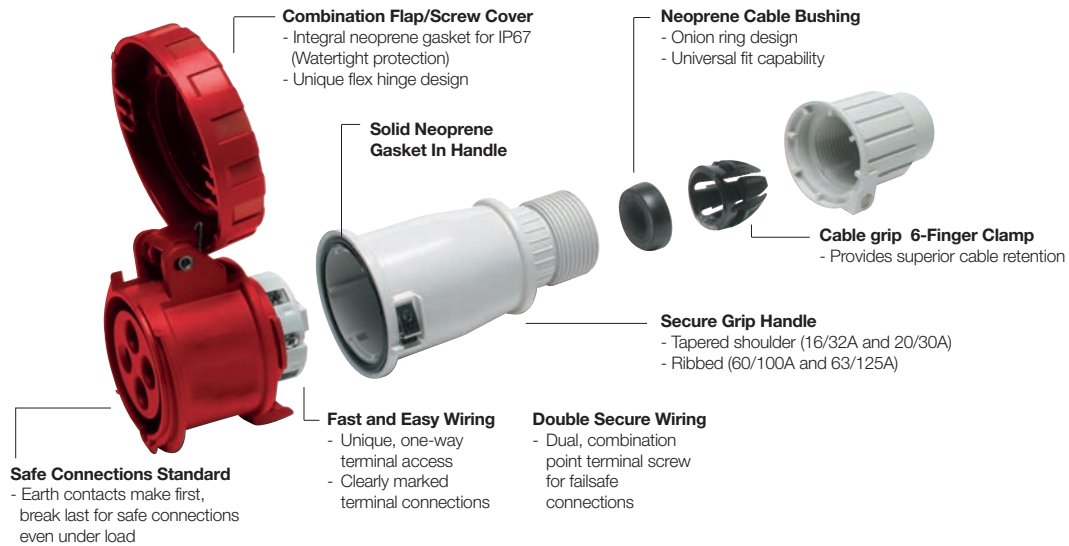
- Snap-on locking feature on all 16/32A and 20/30A plugs and connectors

Screw Collars Stay Put

- Turreted grip allows for easy handling

75% Faster Cable builds

- Nylon lock screw System
- One-piece cable gland
- Nylon locking screw prevents loosening
- Hand assembly of cable gland, cable grip
- 6 Finger clamp and onion-ring bushing



Combination Flap/Screw Cover

- Integral neoprene gasket for IP67 (Watertight protection)
- Unique flex hinge design

Solid Neoprene Gasket In Handle

Neoprene Cable Bushing

- Onion ring design
- Universal fit capability

Cable grip 6-Finger Clamp

- Provides superior cable retention

Secure Grip Handle

- Tapered shoulder (16/32A and 20/30A)
- Ribbed (60/100A and 63/125A)

Fast and Easy Wiring

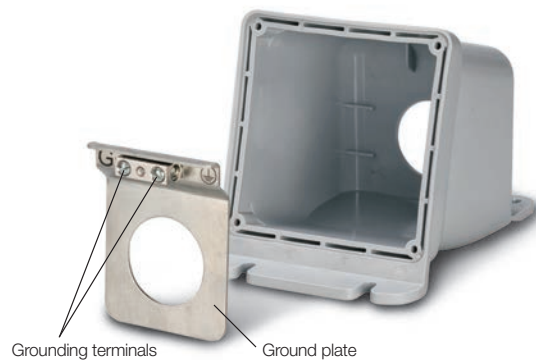
- Unique, one-way terminal access
- Clearly marked terminal connections

Double Secure Wiring

- Dual, combination point terminal screw for failsafe connections

Safe Connections Standard

- Earth contacts make first, break last for safe connections even under load



■ NORTH AMERICAN RATINGS - 20A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	125	SCM320P4W	SCM320C4W	SCM320R4W	SCM320B4W	.57-.71
2P 3W			6h	250	SCM320P6W	SCM320C6W	SCM320R6W	SCM320B6W	.57-.71
2P 3W			5h	277	SCM320P5W	SCM320C5W	SCM320R5W	SCM320B5W	.57-.71
2P 3W			7h	480	SCM320P7W	SCM320C7W	SCM320R7W	SCM320B7W	.57-.71
3P 4W			12h	125/250	SCM420P12W	SCM420C12W	SCM420R12W	SCM420B12W	.57-.71
3P 4W			9h	3ø250	SCM420P9W	SCM420C9W	SCM420R9W	SCM420B9W	.57-.71
3P 4W			6h	380-415	SCM420P6W	SCM420C6W	SCM420R6W	SCM420B6W	.57-.71
3P 4W			7h	3ø480	SCM420P7W	SCM420C7W	SCM420R7W	SCM420B7W	.57-.71
3P 4W			5h	3ø600	SCM420P5W	SCM420C5W	SCM420R5W	SCM420B5W	.57-.71
4P 5W			9h	3øY120-208	SCM520P9W	SCM520C9W	SCM520R9W	SCM520B9W	.57-.71
4P 5W			6h	220/380 240/415	SCM520P6W	SCM520C6W	SCM520R6W	SCM520B6W	.57-.71
4P 5W			7h	3øY277/480	SCM520P7W	SCM520C7W	SCM520R7W	SCM520B7W	.57-.71
4P 5W			5h	3øY347/600	SCM520P5W	SCM520C5W	SCM520R5W	SCM520B5W	.57-.71

■ REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin
and contact-tube accessories.

UL 1682

Plugs, receptacles and cable
connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

■ QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



EUREKA-HD SERIES

■ NORTH AMERICAN RATINGS - 20A

EUREKA[PIN&SLEEVE] Series



SPLASHPROOF - IP44

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)
	Receptacle/ Connector	Plug/Inlet	Clock position					
2P 3W			4h	125	SCM320P4S	SCM320C4S	SCM320R4S	SCM320B4S
2P 3W			6h	250	SCM320P6S	SCM320C6S	SCM320R6S	SCM320B6S
2P 3W			5h	277	SCM320P5S	SCM320C5S	SCM320R5S	SCM320B5S
2P 3W			7h	480	SCM320P7S	SCM320C7S	SCM320R7S	SCM320B7S
3P 4W			12h	125/250	SCM420P12S	SCM420C12S	SCM420R12S	SCM420B12S
3P 4W			9h	3ø250	SCM420P9S	SCM420C9S	SCM420R9S	SCM420B9S
3P 4W			6h	380-415	SCM420P6S	SCM420C6S	SCM420R6S	SCM420B6S
3P 4W			7h	3ø480	SCM420P7S	SCM420C7S	SCM420R7S	SCM420B7S
3P 4W			5h	3ø600	SCM420P5S	SCM420C5S	SCM520R5S	SCM420B5S
4P 5W			9h	3øY120-208	SCM520P9S	SCM520C9S	SCM520R9S	SCM520B9S
4P 5W			6h	220/380 240/415	SCM520P6S	SCM520C6S	SCM520R6S	SCM520B6S
4P 5W			7h	3øY277/480	SCM520P7S	SCM520C7S	SCM520R7S	SCM520B7S
4P 5W			5h	3øY347/600	SCM520P5S	SCM520C5S	SCM520R5S	SCM520B5S

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Standard for pin and sleeve configuration.

■ QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



■ NORTH AMERICAN - 30A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	125	SCM330P4W	SCM330C4W	SCM330R4W	SCM330B4W	.675-.91
2P 3W			6h	250	SCM330P6W	SCM330C6W	SCM330R6W	SCM330B6W	.675-.91
2P 3W			5h	277	SCM330P5W	SCM330C5W	SCM330R5W	SCM330B5W	.675-.91
2P 3W			7h	480	SCM330P7W	SCM330C7W	SCM330R7W	SCM330B7W	.675-.91
3P 4W			12h	125/250	SCM430P12W	SCM430C12W	SCM430R12W	SCM430B12W	.675-.91
3P 4W			9h	3ø250	SCM430P9W	SCM430C9W	SCM430R9W	SCM430B9W	.675-.91
3P 4W			6h	380-415	SCM430P6W	SCM430C6W	SCM430R6W	SCM430B6W	.675-.91
3P 4W			7h	3ø480	SCM430P7W	SCM430C7W	SCM430R7W	SCM430B7W	.675-.91
3P 4W			5h	3ø600	SCM430P5W	SCM430C5W	SCM430R5W	SCM430B5W	.675-.91
4P 5W			9h	3øY120-208	SCM530P9W	SCM530C9W	SCM530R9W	SCM530B9W	.675-.91
4P 5W			6h	220/380 240/415	SCM520P6W	SCM520C6W	SCM530R6W	SCM520B6W	.675-.91
4P 5W			7h	3øY277/480	SCM530P7W	SCM530C7W	SCM530R7W	SCM530B7W	.675-.91
4P 5W			5h	3øY347/600	SCM530P5W	SCM530C5W	SCM530R5W	SCM530B5W	.675-.91

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UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



EUREKA-HD SERIES

NORTH AMERICAN - 30A

EUREKA[PIN&SLEEVE] Series



SPLASHPROOF - IP44

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	125	SCM330P4S	SCM330C4S	SCM330R4S	SCM330B4S	.675-.91
2P 3W			6h	250	SCM330P6S	SCM330C6S	SCM330R6S	SCM330B6S	.675-.91
2P 3W			5h	277	SCM330P5S	SCM330C5S	SCM330R5S	SCM330B5S	.675-.91
2P 3W			7h	480	SCM330P7S	SCM330C7S	SCM330R7S	SCM330B7S	.675-.91
3P 4W			12h	125/250	SCM430P12S	SCM430C12S	SCM430R12S	SCM430B12S	.675-.91
3P 4W			9h	3ø250	SCM430P9S	SCM430C9S	SCM430R9S	SCM430B9S	.675-.91
3P 4W			6h	380-415	SCM430P6S	SCM430C6S	SCM430R6S	SCM430B6S	.675-.91
3P 4W			7h	3ø480	SCM430P7S	SCM430C7S	SCM430R7S	SCM430B7S	.675-.91
3P 4W			5h	3ø600	SCM430P5S	SCM430C5S	SCM430R5S	SCM430B5S	.675-.91
4P 5W			9h	3øY120-208	SCM530P9S	SCM530C9S	SCM530R9S	SCM530B9S	.675-.91
4P 5W			6h	220/380 240/415	SCM530P6S	SCM530C6S	SCM530R6S	SCM530B6S	.675-.91
4P 5W			7h	3øY277/480	SCM530P7S	SCM530C7S	SCM530R7S	SCM530B7S	.675-.91
4P 5W			5h	3øY347/600	SCM530P5S	SCM530C5S	SCM530R5S	SCM530B5S	.675-.91

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QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



■ NORTH AMERICAN - 60A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	125	SCM360P4W	SCM360C4W	SCM360R4W	SCM360B4W	.937-1.375
2P 3W			6h	250	SCM360P6W	SCM360C6W	SCM360R6W	SCM360B6W	.937-1.375
2P 3W			5h	277	SCM360P5W	SCM360C5W	SCM360R5W	SCM360B5W	.937-1.375
2P 3W			7h	480	SCM360P7W	SCM360C7W	SCM360R7W	SCM360B7W	.937-1.375
2P 3W			3h	250DC	SCM360P3W	SCM360C3W	SCM360R3W	SCM360B3W	.937-1.375
3P 4W			12h	125/250	SCM460P12W	SCM460C12W	SCM460R12W	SCM460B12W	.937-1.375
3P 4W			9h	3ø250	SCM460P9W	SCM460C9W	SCM460R9W	SCM460B9W	.937-1.375
3P 4W			6h	380-415	SCM460P6W	SCM460C6W	SCM460R6W	SCM460B6W	.937-1.375
3P 4W			7h	3ø480	SCM460P7W	SCM460C7W	SCM460R7W	SCM460B7W	.937-1.375
3P 4W			5h	3ø600	SCM460P5W	SCM460C5W	SCM460R5W	SCM460B5W	.937-1.375
4P 5W			9h	3øY120/208	SCM560P9W	SCM560C9W	SCM560R9W	SCM560B9W	.937-1.375
4P 5W			6h	220-380/	SCM560P6W	SCM560C6W	SCM560R6W	SCM560B6W	.937-1.375
4P 5W			7h	3øY277/480	SCM560P7W	SCM560C7W	SCM560R7W	SCM560B7W	.937-1.375
4P 5W			5h	3øY347/600	SCM560P5W	SCM560C5W	SCM560R5W	SCM560B5W	.937-1.375

■ REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin
and contact-tube accessories.

UL 1682

Plugs, receptacles and cable
connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

■ QUALITY MARKS

UL LISTED:
E238171, E238172



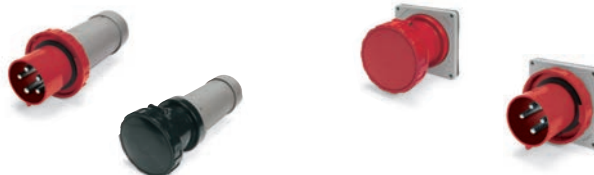
UL CLASSIFIED:
E238170



EUREKA-HD SERIES

■ NORTH AMERICAN - 100A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	125	SCM3100P4W	SCM3100C4W	SCM3100R4W	SCM3100B4W	1.265-1.790
2P 3W			6h	250	SCM3100P6W	SCM3100C6W	SCM3100R6W	SCM3100B6W	1.265-1.790
2P 3W			5h	277	SCM3100P5W	SCM3100C5W	SCM3100R5W	SCM3100B5W	1.265-1.790
2P 3W			7h	480	SCM3100P7W	SCM3100C7W	SCM3100R7W	SCM3100B7W	1.265-1.790
3P 4W			12h	125/250	SCM4100P12W	SCM4100C12W	SCM4100R12W	SCM4100B12W	1.265-1.790
3P 4W			9h	3ø250	SCM4100P9W	SCM4100C9W	SCM4100R9W	SCM4100B9W	1.265-1.790
3P 4W			6h	380-415	SCM4100P6W	SCM4100C6W	SCM4100R6W	SCM4100B6W	1.265-1.790
3P 4W			7h	3ø480	SCM4100P7W	SCM4100C7W	SCM4100R7W	SCM4100B7W	1.265-1.790
3P 4W			5h	3ø600	SCM4100P5W	SCM4100C5W	SCM4100R5W	SCM4100B5W	1.265-1.790
4P 5W			9h	3øY120/208	SCM5100P9W	SCM5100C9W	SCM5100R9W	SCM5100B9W	1.265-1.790
4P 5W			6h	220/380	SCM5100P6W	SCM5100C6W	SCM5100R6W	SCM5100B6W	1.265-1.790
4P 5W			7h	3øY277/480	SCM5100P7W	SCM5100C7W	SCM5100R7W	SCM5100B7W	1.265-1.790
4P 5W			5h	3øY347/600	SCM5100P5W	SCM5100C5W	SCM5100R5W	SCM5100B5W	1.265-1.790

■ REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.

Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.

Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

UL 1682

Plugs, receptacles and cable connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

■ QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



INTERNATIONAL RATINGS - 16A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	100-130	SCM316P4W	SCM316C4W	SCM316R4W	SCM316B4W	.57-.71
2P 3W			6h	220-240	SCM316P6W	SCM316C6W	SCM316R6W	SCM316B6W	.57-.71
3P 4W			6h	380-415	SCM416P6W	SCM416C6W	SCM416R6W	SCM416B6W	.57-.71
4P 5W			6h	220/380 240/415	SCM516P6W	SCM516C6W	SCM516R6W	SCM516B6W	.57-.71

SPLASHPROOF - IP44

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	100-130	SCM316P4S	SCM316C4S	SCM316R4S	SCM316B4S	.57-.71
2P 3W			6h	220-240	SCM316P6S	SCM316C6S	SCM316R6S	SCM316B6S	.57-.71
3P 4W			6h	380-415	SCM416P6S	SCM416C6S	SCM416R6S	SCM416B6S	.57-.71
4P 5W			6h	220/380 240/415	SCM516P6S	SCM516C6S	SCM516R6S	SCM516B6S	.57-.71

REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

UL 1682

Plugs, receptacles and cable connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



EUREKA-HD SERIES

INTERNATIONAL RATINGS - 32A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	100-130	SCM332P4W	SCM332C4W	SCM332R4W	SCM332B4W	.675-.91
2P 3W			6h	220-240	SCM332P6W	SCM332C6W	SCM332R6W	SCM332B6W	.675-.91
3P 4W			3h	380 50 Hz 440 60 Hz	SCM432P3W	SCM432C3W	SCM432R3W	SCM432B3W	.675-.91
3P 4W			6h	380-415	SCM432P6W	SCM432C6W	SCM432R6W	SCM432B6W	.675-.91
4P 5W			6h	220/380 240/415	SCM532P6W	SCM532C6W	SCM532R6W	SCM532B6W	.675-.91

SPLASHPROOF - IP44

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			4h	100-130	SCM332P4S	SCM332C4S	SCM332R4S	SCM332B4S	.675-.91
2P 3W			6h	220-240	SCM332P6S	SCM332C6S	SCM332R6S	SCM332B6S	.675-.91
3P 4W			3h	380 50 Hz 440 60 Hz	SCM432P3S	SCM432C3S	SCM432R3S	SCM432B3S	.675-.91
3P 4W			6h	380-415	SCM432P6S	SCM432C6S	SCM432R6S	SCM432B6S	.675-.91
4P 5W			6h	220/380 240/415	SCM532P6S	SCM532C6S	SCM532R6S	SCM532B6S	.675-.91

REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

UL 1682

Plugs, receptacles and cable connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



INTERNATIONAL RATINGS - 63A

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
2P 3W			6h	220-240	SCM363P6W	SCM363C6W	SCM363R6W	SCM363B6W	.937-1.375
3P 4W			6h	380-415	SCM463P6W	SCM463C6W	SCM463R6W	SCM463B6W	.937-1.375
4P 5W			6h	220/380 240/415	SCM563P6W	SCM563C6W	SCM563R6W	SCM563B6W	.937-1.375

REFERENCE STANDARDS

IEC 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

IEC 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin
and contact-tube accessories.

UL 1682

Plugs, receptacles and cable
connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

QUALITY MARKS

UL LISTED:
E238171, E238172



UL CLASSIFIED:
E238170



EUREKA-HD SERIES

Products for Special Applications

■ DATA CENTER APPLICATION

DUAL RATED AND CERTIFIED - INTERNATIONAL AND NORTH AMERICAN RATINGS

The Eureka series offers a special range of Pin & Sleeve dual rated connectors for both North American cUL and international markets with dual certifications, UL listing mark  by UL laboratory and ENEC (European Norms Electrical Certification) mark  along with CE mark by the Italian- European -certification authority IMQ. The series includes a complete range of pin & Sleeve products including 20/16, 30/32A and 60/63A in all configurations, 2 poles 3 wires, 3 poles 4 wires and 4 poles 5 wires, all with 6h clock position.

All Eureka HD series connectors are RoHS compliant with performance and safety benefits of its rugged Valox material. Both splashproof IP44 and watertight IP67 protections are available to meet all environmental and duty needs.

A complete line of accessories are also available, such as UL listed liquid tight adapters for flexible conduit fittings, back boxes and caps for IP67 watertight plugs.

DC RATED PIN & SLEEVE – NORTH AMERICAN RATINGS -

The use of DC power is becoming more prevalent in the data center sector due to its ability to improve efficiency by reducing power consumption of specific types of equipment.

The Eureka Pin & Sleeve series includes a special range of DC rated configurations suitable to connect DC Electrical devices that meet UL 1682 and UL1686 standards.

All SCAME IEC60309 Pin & Sleeve devices are interchangeable with all other manufacturer products of the same type and have additional advantages and features that include: easy and fast wiring by a screwless handle assembly(snap-on) and cord clamp/cable gland screwless system, outstanding reliability and durability of the housing due to the Valox material and nickel plated pins.

SCAME manufacturers both IP44 splashproof and IP67 watertight products covering every application and purpose for indoor and outdoor use.

■ APPLICATION EXAMPLES



Products for Special Applications

■ DUAL RATED AND CERTIFIED

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

A	Poles & Wires	Configuration			Voltage/ Colour Coding	Plug	Connector
		Receptacle/ Connector	Plug/ Inlet	Clock position			
16/20	2P 3W			6h	200-250	SCM320P6W	SCM320C6W
	3P 4W			6h	380-415	SCM420P6W	SCM420C6W
	4P 5W			6h	200/346 240/415	SCM520P6W	SCM520C6W
30/32	2P 3W			6h	200-250	SCM330P6W	SCM330C6W
	3P 4W			6h	380/415	SCM430P6W	SCM430C6W
	4P 5W			6h	200/346 240/415	SCM530P6W	SCM530C6W
60/63	2P 3W			6h	200-250	SCM360P6W	SCM360C6W
	3P 4W			6h	380/415	SCM460P6W	SCM460C6W
	4P 5W			6h	200/346 240/415	SCM560P6W	SCM560C6W

SPLASHPROOF - IP44

A	Poles & Wires	Configuration			Voltage/ Colour Coding	Plug	Connector
		Receptacle/ Connector	Plug/ Inlet	Clock position			
16/20	2P 3W			6h	200-250	SCM320P6S	SCM320C6S
	3P 4W			6h	380-415	SCM420P6S	SCM420C6S
	4P 5W			6h	200/346 240/415	SCM520P6S	SCM520C6S
30/32	2P 3W			6h	200-250	SCM330P6S	SCM330C6S
	3P 4W			6h	380/415	SCM430P6S	SCM430C6S
	4P 5W			6h	200/346 240/415	SCM530P6S	SCM530C6S

EUREKA-HD SERIES

Products for Special Applications

■ DC RATED

EUREKA[PIN&SLEEVE] Series



WATERTIGHT - IP67

A	Poles & Wires	Configuration			Voltage/ Colour Coding	Plug	Connector	Receptacle	Inlet
		Receptacle/ Connector	Plug/ Inlet	Clock position					
30	2P 3W			8h	500	SCM330P8W	SCM330C8W	SCM330R8W	SCM330B8W
60	2P 3W			8h	500	SCM360P8W	SCM360C8W	SCM360R8W	SCM360B8W
100	2P 3W			8h	500	SCM3100P8W	SCM3100C8W	SCM3100R8W	SCM3100B8W
100	4P 5W			8h	400	SCM5100P8W	SCM5100C8W	SCM5100R8W	SCM5100B8W

SPLASHPROOF - IP44

A	Poles & Wires	Configuration			Voltage/ Colour Coding	Plug	Connector	Receptacle	Inlet
		Receptacle/ Connector	Plug/ Inlet	Clock position					
30	2P 3W			8h	500	SCM330P8S	SCM330C8S	SCM330R8S	SCM330B8S

■ BACK BOX



Description	HUB size (Inch)	Receptacle	Inlets	Cubic Inch capacity	☐	
Size 1 (small)	1	16/20A - 32/30A	-	30	1/10	SCMBB01
Size 2 (medium)	1 ¼	63/60A	16/20A - 32/30A - 63/60A	75	1/10	SCMBB02
Size 3 (large)	1 ½	125/100A	125/100A	120	1/5	SCMBB03

☐ Pack Quantity.
 - Internal grounding plate provided
 - HUB is not included

■ CLOSURE CAPS



Description	☐	
16/20A - 2P+E	10/100	570.90163
16/20A - 3P+E	10/100	570.90164
16/20A - 3P+N+E	10/100	570.90165
32/30A - 2P+E & 3P+E	10/100	570.90324
32/30A - 3P+N+E	10/100	570.90325
63/60A - all polarity	1/10	570.9063
125/100A - all polarity	1/10	570.9125

☐ Pack Quantity.

EUREKA-HD SERIES

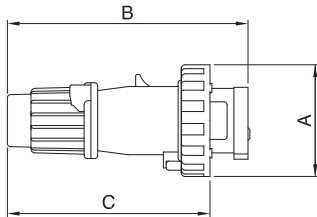
■ LIQUID TIGHT ADAPTER



Versions	⊞	
20A 3-4 WIRE 1/2" NPT	5	SCMSAA12
20A 5 WIRE 1/2" NPT	5	SCMSAB12
30A 3-4 WIRE 3/4" NPT	5	SCMSAB34
30A 5 WIRE 1" NPT	5	SCMSAC100
60A 3-4-5 WIRE 1 1/4" NPT	5	SCMSAC125
30A 5 WIRE 3/4" NPT	5	SCMSAC34
100A 3-4-5 WIRE 1 1/4" NPT	5	SCMSAD125

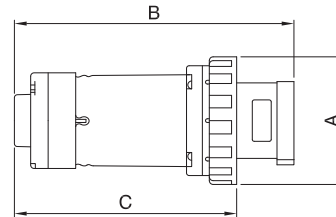
⊞ Pack Quantity.

■ DIMENSIONS



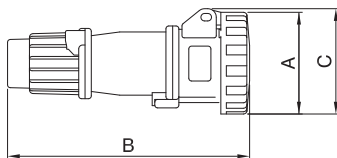
PLUG IP67 16/20A AND 30/32A

	A		B		C		Corp grip range	
	inches	mm	inches	mm	inches	mm		
16/20A 2P3W	2.87	73	6.20	157	5.23	133	.570-.710	14-18
16/20A 3P4W	3.17	81	6.47	164	5.51	140	.570-.710	14-18
16/20A 4P5W	3.48	88	7.02	178	6.06	154	.570-.710	14-18
30/32A 2P3W	3.66	93	7.37	187	6.13	156	.675-.910	17-23
30/32A 3P4W	3.66	93	7.37	187	6.13	156	.675-.910	17-23
30/32A 4P5W	3.96	101	8.15	207	6.91	176	.675-.910	17-23



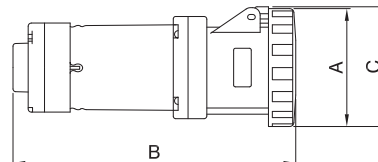
PLUG IP67 60/63A AND 100/125A

	A		B		C		Corp grip range	
	inches	mm	inches	mm	inches	mm		
60/63A 2P3W	4.41	112	9.68	246	7.67	195	.937-1.375	24-35
60/63A 3P4W	4.41	112	9.68	246	7.67	195	.937-1.375	24-35
60/63A 4P5W	4.41	112	9.68	246	7.67	195	.937-1.375	24-35
100/125A 3P4W	5.06	129	12.16	309	9.83	250	1.265-1.790	32-45
100/125A 4P5W	5.06	129	12.16	309	9.83	250	1.265-1.790	32-45



CONNECTOR IP67 16/20A AND 30/32A

	A		B		C		Corp grip range	
	inches	mm	inches	mm	inches	mm		
16/20A 2P3W	2.87	73	6.75	171	2.97	75	.570-.710	14-18
16/20A 3P4W	3.17	81	7.04	179	3.28	83	.570-.710	14-18
16/20A 4P5W	3.48	88	7.62	194	3.75	95	.570-.710	14-18
30/32A 2P3W	3.66	93	8.04	204	4.04	103	.675-.910	17-23
30/32A 3P4W	3.66	93	8.04	204	4.04	103	.675-.910	17-23
30/32A 4P5W	3.96	101	8.83	224	4.03	102	.675-.910	17-23



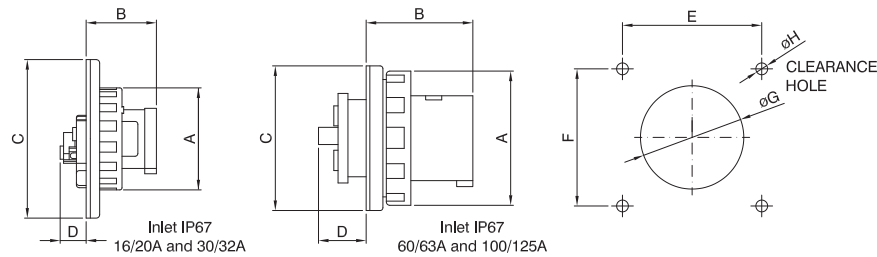
CONNECTOR IP67 60/63A AND 100/125A

	A		B		C		Corp grip range	
	inches	mm	inches	mm	inches	mm		
60/63A 2P3W	4.41	112	10.52	267	4.47	114	.937-1.375	24-35
60/63A 3P4W	4.41	112	10.52	267	4.47	114	.937-1.375	24-35
60/63A 4P5W	4.41	112	10.52	267	4.47	114	.937-1.375	24-35
100/125A 3P4W	5.06	129	12.80	325	5.06	129	1.265-1.790	32-45
100/125A 4P5W	5.06	129	12.80	325	5.06	129	1.265-1.790	32-45

(Dimensions in mm)

EUREKA-HD SERIES

DIMENSIONS

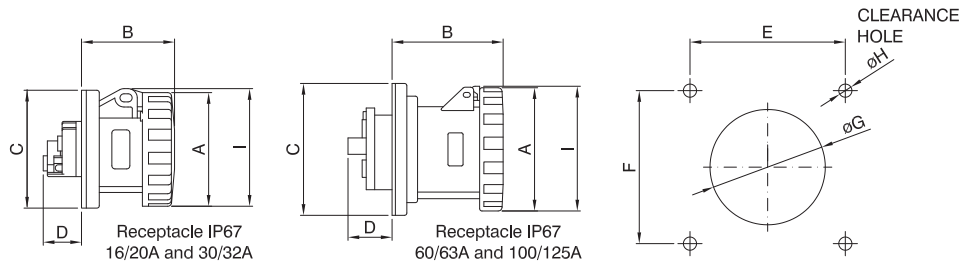


INLET IP67 16/20A AND 30/32A

	A		B		C		D		E		F		G		H	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
16/20A 2P3W	2.87	73	1.96	50	4.50	114	.75	19	3.87	98	3.87	98	2.38	60	.282	7.2
16/20A 3P4W	3.17	81	1.96	50	4.50	114	.75	19	3.87	98	3.87	98	2.38	60	.282	7.2
16/20A 4P5W	3.48	88	1.96	50	4.50	114	.75	19	3.87	98	3.87	98	2.38	60	.282	7.2
30/32A 2P3W	3.66	93	2.32	59	4.50	114	1.32	34	3.87	98	3.87	98	2.38	60	.282	7.2
30/32A 3P4W	3.66	93	2.32	59	4.50	114	1.32	34	3.87	98	3.87	98	2.38	60	.282	7.2
30/32A 4P5W	3.96	101	2.32	59	4.50	114	1.32	34	3.87	98	3.87	98	2.38	60	.282	7.2

INLET IP67 60/63A AND 100/125A

	A		B		C		D		E		F		G		H	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
60/63A 2P3W	4.41	112	3.44	87	4.50	114	1.68	43	3.87	98	3.87	98	3.25	83	.282	7.2
60/63A 3P4W	4.41	112	3.44	87	4.50	114	1.68	43	3.87	98	3.87	98	3.25	83	.282	7.2
60/63A 4P5W	4.41	112	3.44	87	4.50	114	1.68	43	3.87	98	3.87	98	3.25	83	.282	7.2
100/125A 3P4W	5.06	129	3.88	99	5.50	140	1.94	49	4.87	124	4.87	124	3.75	95	.282	7.2
100/125A 4P5W	5.06	129	3.88	99	5.50	140	1.94	49	4.87	124	4.87	124	3.75	95	.282	7.2



RECEPTACLE IP67 16/20A AND 30/32A

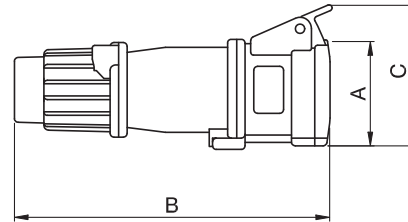
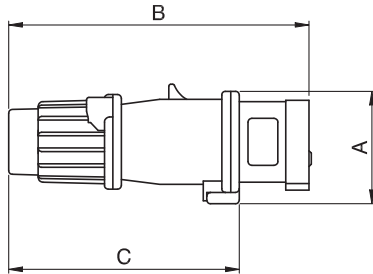
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	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
16/20A 2P3W	2.87	73	2.32	59	2.97	.76	.94	24	2.36	60	2.36	60	2.38	60	.219	5.5	2.97	75
16/20A 3P4W	3.17	81	2.34	60	2.97	.76	.94	24	2.36	60	2.36	60	2.38	60	.219	5.5	3.28	83
16/20A 4P5W	3.48	88	2.37	60	2.97	.76	.94	24	2.36	60	2.36	60	2.38	60	.219	5.5	3.75	95
30/32A 2P3W	3.66	93	2.79	71	2.97	.76	1.52	39	2.36	60	2.36	60	2.38	60	.219	5.5	4.04	103
30/32A 3P4W	3.66	93	2.79	71	2.97	.76	1.52	39	2.36	60	2.36	60	2.38	60	.219	5.5	4.04	103
30/32A 4P5W	3.96	101	2.81	71	2.97	.76	1.52	39	2.36	60	2.36	60	2.38	60	.219	5.5	4.03	102

RECEPTACLE IP67 60/63A AND 100/125A

	A		B		C		D		E		F		G		H		I	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
60/63A 2P3W	4.41	112	4.16	106	4.50	114	1.68	43	3.87	98	3.87	98	3.25	83	.282	7.2	4.47	114
60/63A 3P4W	4.41	112	4.16	106	4.50	114	1.68	43	3.87	98	3.87	98	3.25	83	.282	7.2	4.47	114
60/63A 4P5W	4.41	112	4.16	106	4.50	114	1.68	43	3.87	98	3.87	98	3.25	83	.282	7.2	4.47	114
100/125A 3P4W	5.06	129	4.52	115	5.50	140	1.94	49	4.87	124	4.87	124	3.75	95	.282	7.2	5.06	129
100/125A 4P5W	5.06	129	4.52	115	5.50	140	1.94	49	4.87	124	4.87	124	3.75	95	.282	7.2	5.06	129

(Dimensions in mm)

DIMENSIONS

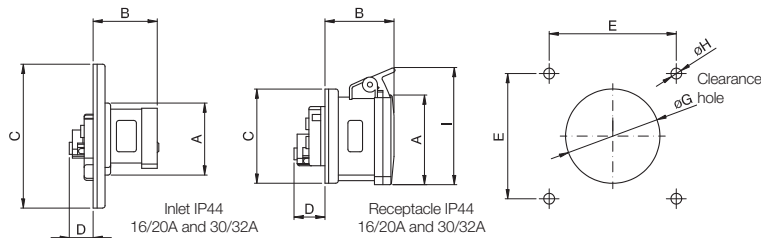


PLUG IP44

	A		B		C		Corp Grip Range	
	inches	mm	inches	mm	inches	mm	inches	mm
16/20A 2P3W	2.26	58	6.20	157	4.76	121	.570-.710	14-18
16/20A 3P4W	2.52	64	6.47	164	5.04	128	.570-.710	14-18
16/20A 4P5W	2.85	73	7.02	178	5.58	142	.570-.710	14-18
30/32A 2P3W	2.85	73	7.37	187	5.58	142	.675-.910	17-23
30/32A 3P4W	2.85	73	7.37	187	5.58	142	.675-.910	17-23
30/32A 4P5W	3.13	80	8.15	207	6.36	162	.675-.910	17-23

CONNECTOR IP44

	A		B		C		Corp Grip Range	
	inches	mm	inches	mm	inches	mm	inches	mm
16/20A 2P3W	2.18	55	6.53	166	3.07	73	.570-.710	14-18
16/20A 3P4W	2.43	62	6.83	173	3.33	80	.570-.710	14-18
16/20A 4P5W	2.81	71	7.41	188	3.79	91	.570-.710	14-18
30/32A 2P3W	2.81	71	7.81	198	3.79	91	.675-.910	17-23
30/32A 3P4W	2.81	71	7.81	188	3.79	91	.675-.910	17-23
30/32A 4P5W	3.09	79	8.62	219	4.17	101	.675-.910	17-23



INLET IP44

	A		B		C		D		E		F		G		H	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
16/20A 2P3W	2.26	58	1.96	50	4.50	114	.75	19	3.87	98	3.87	98	2.38	60	.282	7.2
16/20A 3P4W	2.52	64	1.96	50	4.50	114	.75	19	3.87	98	3.87	98	2.38	60	.282	7.2
16/20A 4P5W	2.85	73	1.96	50	4.50	114	.75	19	3.87	98	3.87	98	2.38	60	.282	7.2
30/32A 2P3W	2.85	73	2.32	59	4.50	114	1.32	34	3.87	98	3.87	98	2.38	60	.282	7.2
30/32A 3P4W	2.85	73	2.32	59	4.50	114	1.32	34	3.87	98	3.87	98	2.38	60	.282	7.2
30/32A 4P5W	3.13	80	2.32	59	4.50	114	1.32	34	3.87	98	3.87	98	2.38	60	.282	7.2

RECEPTACLE IP44

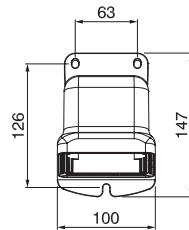
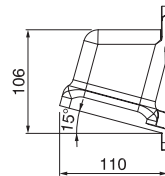
	A		B		C		D		E		F		G		H		I	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
16/20A 2P3W	2.18	55	2.11	54	2.97	76	0.94	24	2.36	60	2.36	60	2.38	60	.219	5.5	3.07	73
16/20A 3P4W	2.43	62	2.13	54	2.97	76	0.94	24	2.36	60	2.36	60	2.38	60	.219	5.5	3.33	80
16/20A 4P5W	2.81	71	2.17	55	2.97	76	0.94	24	2.36	60	2.36	60	2.38	60	.219	5.5	3.79	91
30/32A 2P3W	2.81	71	2.56	65	2.97	76	1.52	39	2.36	60	2.36	60	2.38	60	.219	5.5	3.79	91
30/32A 3P4W	2.81	71	2.56	65	2.97	76	1.52	39	2.36	60	2.36	60	2.38	60	.219	5.5	3.79	91
30/32A 4P5W	3.09	79	2.60	66	2.97	76	1.52	39	2.36	60	2.36	60	2.38	60	.219	5.5	4.17	101

(Dimensions in mm)

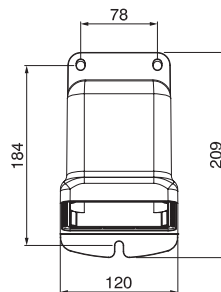
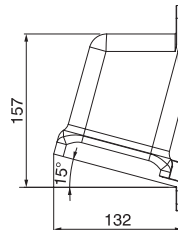
EUREKA-HD SERIES

DIMENSIONS

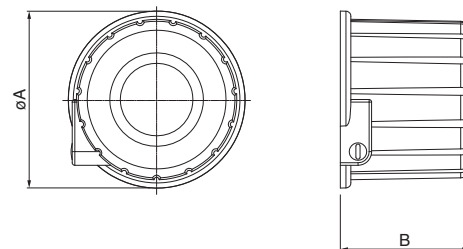
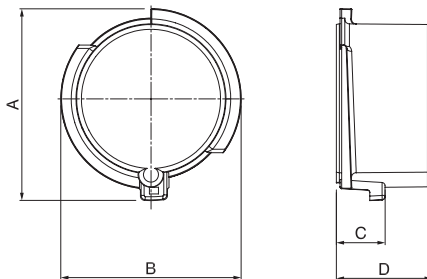
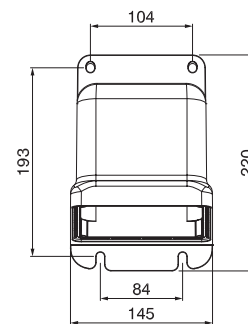
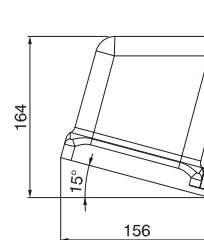
SCMBB01



SCMBB02



SCMBB03



	A	B	C	D
570.90163	64	60	20	40
570.90164	72	68	20	40
570.90165	81	76	20	40
570.90324	85	82	22	50
570.90325	93	89	22	50
570.9063	99	96	25	71
570.9125	113	109	25	79

	ØA (mm)	B (mm)	fil./thread
SCMSAA12	48.5	60	1/2 NPT
SCMSAB12	61.9	68	1/2 NPT
SCMSAB34	61.9	76	3/4 NPT
SCMSAC100	70	82	1 NPT
SCMSAC125	84	89	1 1/4 NPT
SCMSAC34	70	96	3/4 NPT
SCMSAD125	96	109	1 1/4 NPT

(Dimensions in mm)

ADVANCE-GRP System

■ UNFUSED MECHANICAL INTERLOCKS



■ QUALITY MARKS

UL LISTED:

E238171, E238172



UL CLASSIFIED:

E238170



In accordance with the National Electrical Code (NEC) a disconnecting means must be located in sight from the motor and the driven machinery location. The disconnection means must be marked "Suitable as Motor Disconnect" in compliance with UL508 (old version) or UL 60947-4-1 (new version) standard.

Advance GRP series includes the disconnect switch listed as "Suitable as Motor Disconnect" and receptacle in a single compact device made in the outstanding impact, heat and fire and chemical resistance GRP material.

The Pre-wired switched and Interlocked Receptacles provides safety and reliability thanks to its double mechanical interlock which prevents making and braking of power under load.

The switch can be turned "ON" only when an IEC compatible plug is completely engaged and the plug cannot be removed until the switch is in the OFF position. Furthermore it prevents dangerous incomplete plug insertion cause of lazy connections.

The non-metallic heavy duty enclosure in GRP material guarantees and extreme impact and mechanical resistance even against misuses and accidental impacts, very frequent in case of surface mounting devices and extraordinary resistance against chemical substances and atmospheric agents.

Its dielectric features increases electric safety and can be connected to the metallic conduit and by the internal pre-wired grounding plate doesn't obstruct the ground continuity.

The robust and ample handle can be padlockable in ON and OFF positions and can be used as a method of compliance with the OSHA Lockout/Tagout regulation. Its ergonomics and dimension allows to be operated even if workers is wearing gloves.

It gives a clear indication of the position of the contacts switch is provided by the high visibility handle along with a led light located on the front of the devices which shows if the receptacle is powered.

Door interlock allows the cover can only be removed only when the switch is in the OFF position. For troubleshooting it is to turn on the switch by means of special tool from authorized personnel.

■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-4

Plugs, socket-outlets and couplers for industrial purposes.
Part 4: Switched socket-outlets and connectors with or without interlock.

UL 1682

Plugs, receptacles and cable connectors of the pin and sleeve type.

UL 1686

Standard for pin and sleeve configuration.

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

UL 508 (NON-FUSED)

Industrial control equipment.

UL 60947-4-1

Low voltage switchgear and controlgear.
Part 4-1: contactors and motor-starters: Electromechanical contactors and motor-starters.

■ TECHNICAL CHARACTERISTICS

Rated current:	20A-30A-60A
Rated voltage:	100÷600V~
Frequency:	50÷60Hz
Insulating voltage:	500/690V~
Protection degree:	IP66/IP67/IP69 (UL 94 type 3R, 4/4X, 12)
Operating ambient temperature according to the reference standard:	-25°C +40°C
Minimum operating ambient temperature:	-40°C
Max. operating ambient temperature:	+70°C
Self-extinguishing GW test:	960°C
Self-extinguishing UL94:	V0
Material:	Thermosetting
IK degree at 20°C:	IK10 (20J)
Colour:	Grey RAL7037

EUREKA-HD SERIES

ADVANCE-GRP System

■ TERMINAL CAPACITY

Wire size range	20/30A	60A
Switch / ground / neutral	16-6 AWG (1.5÷10mm ²)	6-1 AWG (10÷35mm ²)
Auxiliary contact	10-18 AWG (1.5÷10mm ²)	

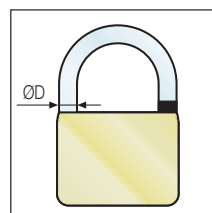
■ TERMINAL TORQUE

	20/30A	60A
Switch	0.8 Nm (7 lb•in)	3.6 Nm (32 lb•in)
Ground / neutral	0.8 Nm (7 lb•in)	1.5 Nm (13 lb•in)
Auxiliary contact	0.8 Nm (7 lb•in)	0.8 Nm (7 lb•in)
Pilot	—	0.8 Nm (7 lb•in)

■ PADLOCK TO BE USED

Choice of padlock for socket knob, fuse door and switchboard door

Rated current (A)	Ø D (mm)
20/30	5
60	6,3



■ SWITCH DISCONNECTORS ELECTRICAL DATA ACCORDING TO UL 508

General purpose amp rating			20A	30A	60A	
Max operating voltage		V	600	600	600	
Max. horsepower ratings	Three phase	120V	Hp	3	3	5
		240V	Hp	5	7.5	15
		415V	Hp	7.5	10	25
		480V	Hp	10	20	30
		600V	Hp	15	25	40
	Single phase	120	V	2	3	5
		240	V	3	5	10
		480	V	10	15	20
Short circuit ratings with fuse	Fuse RK5 (time delay)		(A) rms	5000	5000	5000
	Fuse class J (fast-acting)		(A) rms	10000	10000	10000
Maximum fuse size		A	40	40	80	
Min electrical endurance (with rated current)		ON/OFF cycles	6000	6000	6000	

ADVANCE-GRP System

■ INTERLOCKED SOCKET OUTLETS - IP66/IP67/IP69 (UL 94 TYPE 3R, 4/4X, 12)

ADVANCE-GRP System



A	Poles & Wires	Configuration			Voltage/ Colour Coding	With base
		Receptacle/ Connector	Plug/ Inlet	Clock position		
20	2P 3W			4h	125	SCM320MI4W
	2P 3W			6h	250	SCM320MI6W
	2P 3W			7h	480	SCM320MI7W
	3P 4W			12h	125/250	SCM420MI12W
	3P 4W			7h	3ø480	SCM420MI7W
	3P 4W			9h	3ø250	SCM420MI9W
	3P 4W			5h	3ø600	SCM420MI5W
	4P 5W			7h	3øY277/480	SCM520MI7W
	4P 5W			9h	3øY120/208	SCM520MI9W
	4P 5W			5h	3øY347/600	SCM520MI5W
30	2P 3W			4h	125	SCM330MI4W
	2P 3W			6h	250	SCM330MI6W
	2P 3W			7h	480	SCM330MI7W
	3P 4W			12h	125/250	SCM430MI12W
	3P 4W			7h	3ø480	SCM430MI7W
	3P 4W			9h	3ø250	SCM430MI9W
	3P 4W			5h	3ø600	SCM430MI5W
	4P 5W			7h	3øY277/480	SCM530MI7W
	4P 5W			9h	3øY120/208	SCM530MI9W
	4P 5W			5h	3øY347/600	SCM530MI4W
32	3P 4W			3h	380 50Hz 440 60Hz	SCM432MI3W

EUREKA-HD SERIES

ADVANCE-GRP System

ADVANCE-GRP System



A	Poles & Wires	Configuration			Voltage/ Colour Coding	With base
		Receptacle/ Connector	Plug/ Inlet	Clock position		
60	2P 3W			6h	250	SCM360MI6W
	2P 3W			7h	480	SCM360MI7W
	3P 4W			7h	3ø480	SCM460MI7W
	3P 4W			9h	3ø250	SCM460MI9W
	3P 4W			5h	3ø600	SCM460MI5W
	4P 5W			7h	3øY277/408	SCM560MI7W
	4P 5W			9h	3øY120/208	SCM560MI9W
	4P 5W			5h	3øY347/600	SCM560MI5W

EUREKA-HD Series and ADVANCE-GRP System

■ REFRIGERATED CONTAINER & RAIL YARD APPLICATIONS

Container Port Terminals and Rail Yards are some of the most rugged and harsh environments due to atmospheric agents and chemical substances present such as oils and solvents.

The frequent insertion, withdrawal and impacts put the connectors to the test everyday. Scame Pin & Sleeve connectors and switched mechanical interlocks are the perfect solution to guarantee reliability and safety over in any environment.

The outstanding temperature and impact characteristics of the GRP (glass reinforced polyester) material makes the UL listed Advance-GRP series the perfect solution for such harsh environments. Its non metallic composition makes it the ideal material for use in applications with high electrical current and harsh environments.

The dual interlock mechanism doesn't allow the switch to be turned "ON" unless the plug is fully inserted.

Additionally, the plug cannot be removed unless the switch is turned "OFF".

These safety features prevent making or breaking contact under load. An on/off LED lets the user know if the Advance-GRP is energized.

A complete complementary range of IP67 Pin & Sleeve Plugs, Receptacles, Connectors and Inlets are available including international configurations that can be mated with all IEC 60309 connectors worldwide!. All connectors are safety agency approved for use around the world.

■ INTERNATIONAL RATINGS - 32A

EUREKA Series



WATERTIGHT - IP67

Poles & Wires	Configuration			Voltage/ Colour Coding	Plug (Male)	Connector (Female)	Receptacle (Female)	Inlet (Male)	Cable O.D. Range Inches
	Receptacle/ Connector	Plug/Inlet	Clock position						
3P 4W			3h	380 50Hz 440 60Hz	SCM432P3W	SCM432C3W	SCM432R3W	SCM432B3W	.675-.91

■ INTERLOCKED SOCKET OUTLETS - IP66/IP67/IP69 (UL 94 TYPE 3R, 4/4X, 12)

ADVANCE-GRP System



A	Poles & Wires	Configuration			Voltage/ Colour Coding	With base
		Receptacle/ Connector	Plug/ Inlet	Clock position		
32	3P 4W			3h	380 50Hz 440 60Hz	SCM432MI3W

EUREKA-HD SERIES

ADVANCE-GRP System

■ TECHNICAL CHARACTERISTICS 20A-30A-60A VERSIONS

Single-piece waterproof gasket



Dual mechanical interlock to increase safety

Pre-wired grounding plate connects to metal conduit grounding system

Fixing hole

Wide space for easy and comfortable wiring

Neutral terminal

Motor disconnect switch

Threaded metal insert

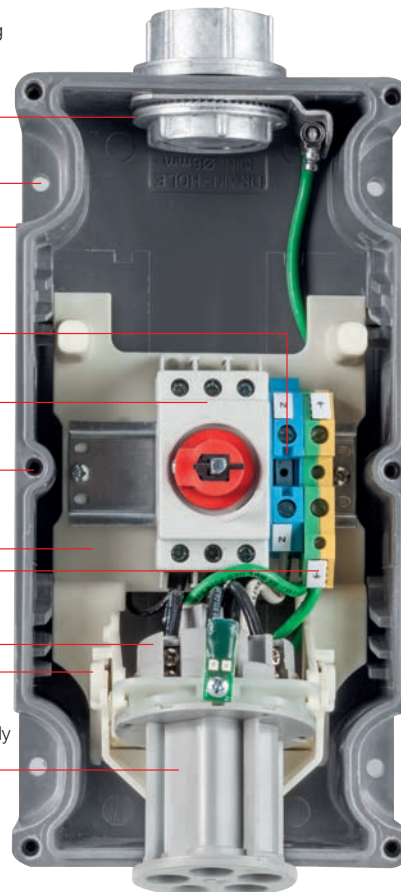
Easily extractable support

Earth terminal

Power indicator led

Possibility for plug-inserted control microswitch assembly

Prewired receptacle accepts all manufacturer's IEC 60309-2 pin and sleeve plugs



EUREKA-HD SERIES

ADVANCE-GRP System

■ TECHNICAL CHARACTERISTICS 20A-30A-60A VERSIONS



BOTTOM VIEW

Module in high-temperature resistant engineering polymer

(A)	Conduit tub
20/30	1"
60	1 1/4"



Possible entry from bottom side

TOP VIEW



Self-centering punch marks to facilitate drilling

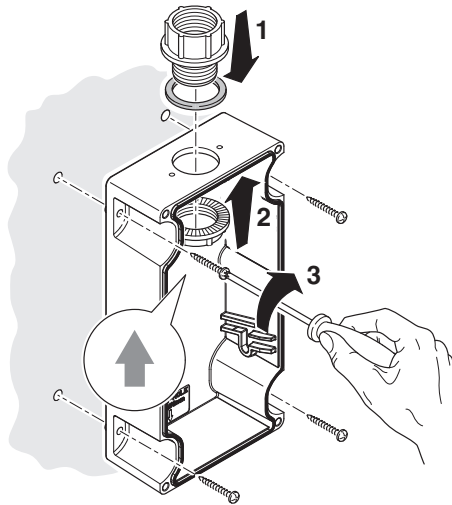
Pre-called cable entries available on request.

EUREKA-HD SERIES

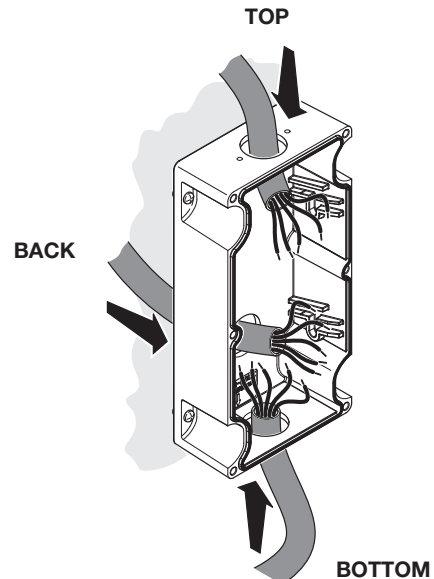
ADVANCE-GRP System

■ MOUNTING INSTRUCTION

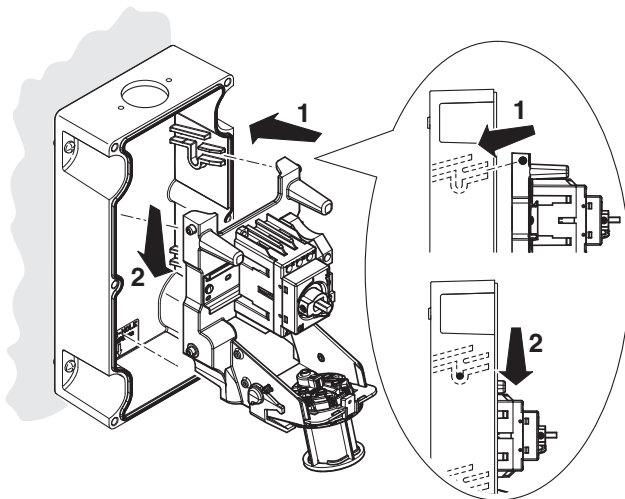
Base wall fixing



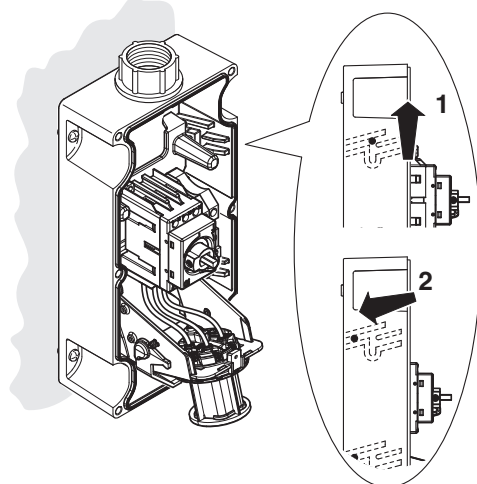
Cable entries



Insert fixing



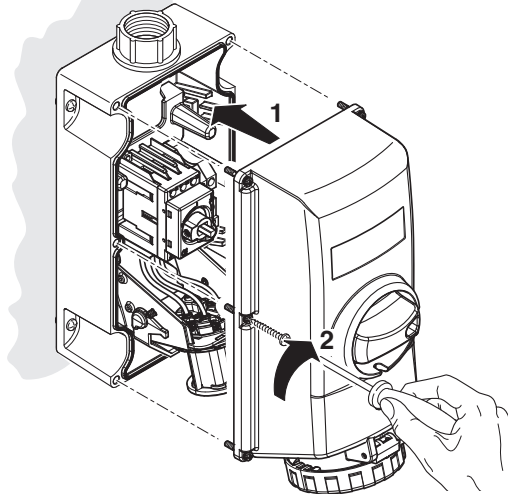
Enclosure closing



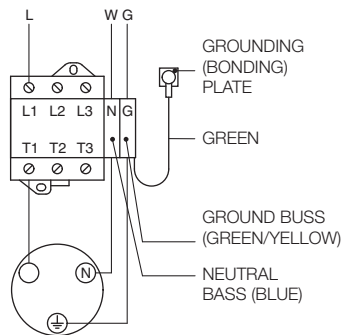
EUREKA-HD SERIES

ADVANCE-GRP System

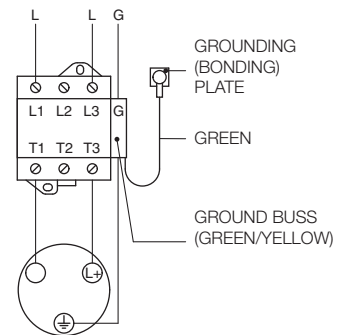
Reinstall
the cover



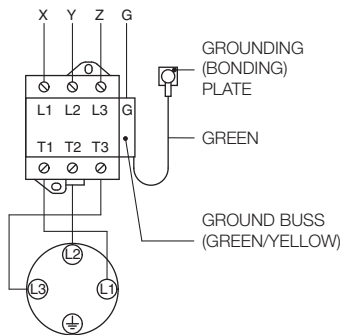
Wiring diagram



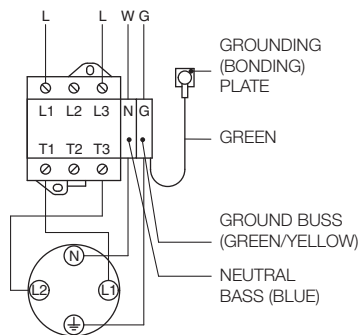
2 POLES 3 WIRES
Single fase



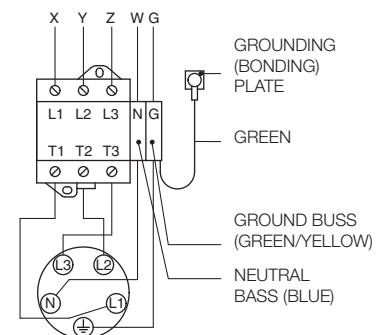
2 POLES 3 WIRES
Single fase (no neutral)



3 POLES 4 WIRES
3 Ø



3 POLES 4 WIRES
Edison system

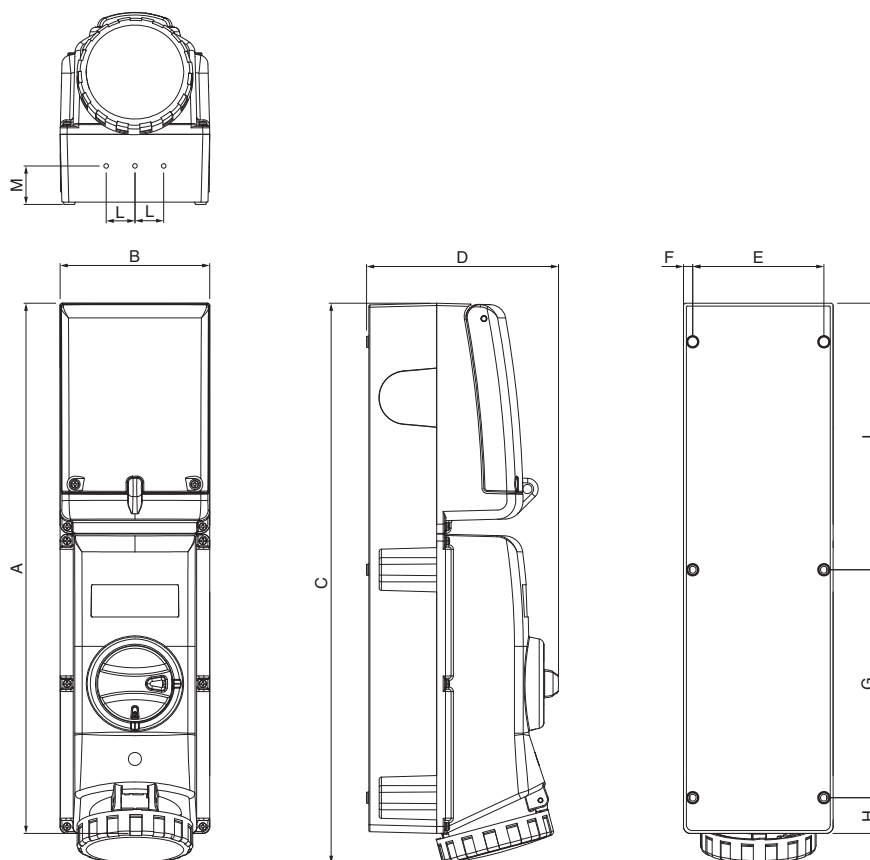


4 POLES 5 WIRES
3 Ø

EUREKA-HD SERIES

ADVANCE-GRP System

■ DIMENSIONS - BASES ADVANCE-GRP 20A-30A-60A



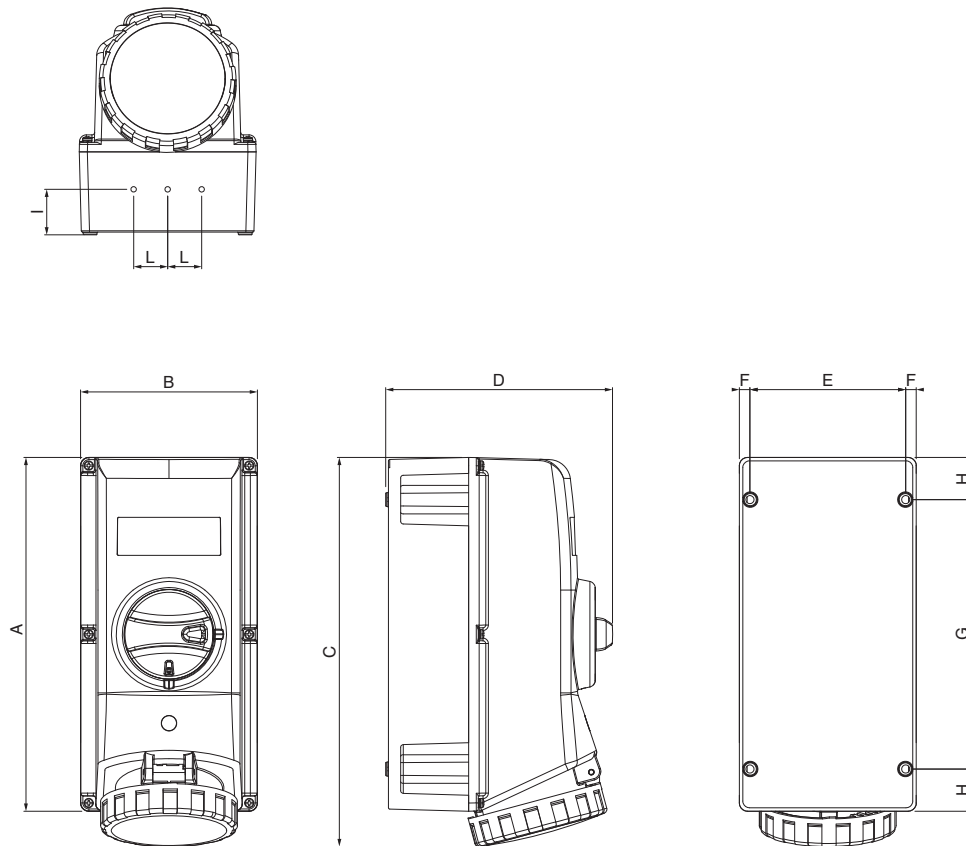
VERSION	Amp.	A	B	C	D	E	F	G	H	I	L	M
2P+E	20A	460.5	130	480.5	167	114	8	198	31	231.5	25	33.5
3P+E	20A	460.5	130	482.5	167	114	8	198	31	231.5	25	33.5
3P+N+E	20A	460.5	130	482.5	167	114	8	198	31	231.5	25	33.5
2/3P+E	30A	460.5	130	485.5	167	114	8	198	31	231.5	25	33.5
3P+N+E	30A	460.5	130	486.5	167	114	8	198	31	231.5	25	33.5
2P+E	60A	580.5	170	621.5	206	150	10	310	35	235.5	32.5	40
3P+E	60A	580.5	170	621.5	206	150	10	310	35	235.5	32.5	40
3P+N+E	60A	580.5	170	621.5	206	150	10	310	35	235.5	32.5	40

(Dimensions in mm)

EUREKA-HD SERIES

ADVANCE-GRP System

■ DIMENSIONS - SOCKET OUTLETS ADVANCE-GRP 20A-30/32A-60A



VERSION	Amp.	A	B	C	D	E	F	G	H	I	L
2P+E	20A	260	130	280	167	114	8	198	31	33.5	25
3P+E	20A	260	130	282	167	114	8	198	31	33.5	25
3P+N+E	20A	260	130	282	167	114	8	198	31	33.5	25
2/3P+E	30/32A	260	130	285	167	114	8	198	31	33.5	25
3P+N+E	30/32A	260	130	286	167	114	8	198	31	33.5	25
2P+E	60A	380	170	420	206	150	10	310	35	40	32.5
3P+E	60A	380	170	420	206	150	10	310	35	40	32.5
3P+N+E	60A	380	170	420	206	150	10	310	35	40	32.5

(Dimensions in mm)