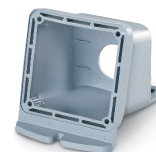


## ■ BACK BOX



| 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.

## ■ 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, E238172UL CLASSIFIED:  
E238170

## ■ 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

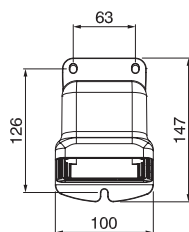
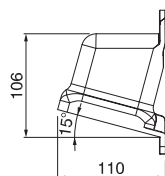
IK degree at 20°C (EN 50102):

IK10 (20J)

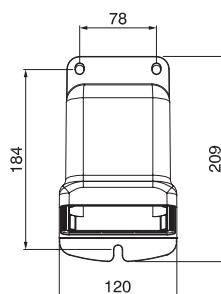
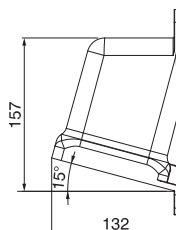
# EUREKA-HD SERIES

## DIMENSIONS

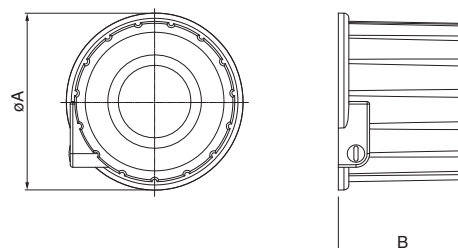
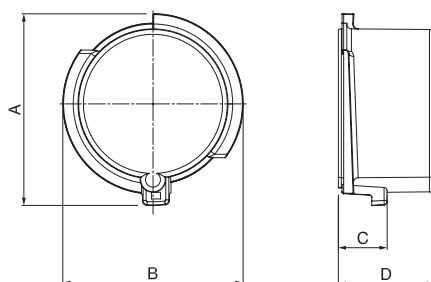
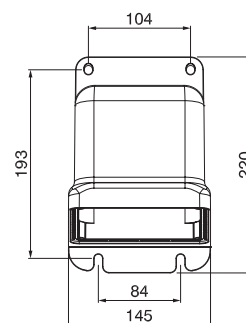
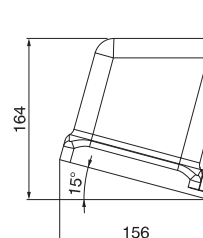
SCMBB01



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)



# EUREKA-HD SERIES



## ■ PERFORMANCE - ELECTRICAL (SERIES I)

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

## ■ PERFORMANCE - ELECTRICAL (SERIES II)

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

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

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

## ■ PERFORMANCE - MECHANICAL (SERIES I)

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

## ■ PERFORMANCE - MECHANICAL (SERIES II)

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

## ■ PERFORMANCE - ENVIRONMENTAL (SERIES I & II)

|                       |                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Corrosion Resistance: | <b>All metallic components stainless steel or nickel plated brass<br/>Sleeve pressure rings of zinc plated steel</b> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|

## ■ MATERIALS FOR BACK BOX (SERIES I & II)

|                  |                          |
|------------------|--------------------------|
| Housing:         | <b>PC siloxane</b>       |
| Gasket:          | <b>Solid neoprene</b>    |
| Screws:          | <b>Stainless steel</b>   |
| Grounding plate: | <b>zinc-coated steel</b> |

### 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

## ■ WATERTIGHT – IP67

### Safe Connections Standard

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

