

SACB-6/12-10,0PUR SCO P - Distributor box



1452495

<https://www.phoenixcontact.com/us/products/1452495>

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Distributor box, application: Standard, connection method: M12-SPEEDCON-socket Plastic, number of slots: 6, number of positions: 5, coding: A, slot assignment: Double, status display: No, Universal; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 10 m, shielding: no

Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Save space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1452495 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF41 |
| Product key | BF3CBA |
| Catalog page | Page 262 (C-2-2019) |
| GTIN | 4046356553858 |
| Weight per piece (including packing) | 1,810.9 g |
| Weight per piece (excluding packing) | 1,699 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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Technical data

Notes

| | |
|---------|--|
| General | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
| General | Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories". |

Product properties

| | |
|---------------------|-----------------|
| Product type | Distributor box |
| Number of positions | 5 |
| Application | Standard |
| Number of slots | 6 |
| Coding | A |
| LED | No |

Electrical properties

| | |
|---|----------|
| Nominal voltage U_N | 120 V AC |
| | 120 V DC |
| Rated current, total | 12 A |
| Max. current carrying capacity per path | 2 A |
| Current carrying capacity per slot | 4 A |

Connection data

Conductor connection

| | |
|--|---------------------|
| Sensor/actuator connection system | M12-SPEEDCON-socket |
| Tightening torque slot sensor/actuator cable | 0.4 Nm |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |

Pin assignment

| | |
|--|------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH |
| | 1 / 2 (B) = GYPK |
| | 2 / 4 (A) = GN |
| | 2 / 2 (B) = RDBU |
| | 3 / 4 (A) = YE |
| | 3 / 2 (B) = WHGN |
| | 4 / 4 (A) = GY |
| | 4 / 2 (B) = BNGN |
| | 5 / 4 (A) = PK |
| | 5 / 2 (B) = WHYE |
| | 6 / 4 (A) = RD |
| | 6 / 2 (B) = YEBN |

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| | |
|--|------------------------|
| | 1-6 / 1 (+ 120 V) = BN |
| | 1-6 / 3 (0 V) = BU |
| | 1-6 / 5 (PE) = GNYE |

Signaling

| | |
|------------------------|----|
| Status display present | No |
|------------------------|----|

Dimensions

| | |
|---------------------|--------|
| Dimensional drawing | |
| Width | 54 mm |
| Height | 23 mm |
| Length | 123 mm |

Material specifications

| | |
|---------------------------|-------------|
| Material Threaded sleeve | PBT |
| Material Housing | PBT |
| Material Molding compound | PUR |
| Seal material O-ring | NBR |
| Contact material | Cu alloy |
| Contact surface material | gold-plated |
| Contact carrier material | PA |

Cable/line

| | |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

PUR/PVC black [PUR]

| | |
|---------------------|-------------|
| Dimensional drawing | |
| Cable weight | 150.9 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 15 |
| Shielded | no |

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| | |
|---|---|
| Cable type | PUR/PVC black [PUR] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor cross section | 12x 0.5 mm ² (Signal line) 3x 1 mm ² (power line) |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm (Signal line) 2.1 mm ±0.1 mm (power line) |
| External cable diameter | 9.40 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black RAL 9005 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown, blue, green/yellow, white, green, yellow, gray, pink, red, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown |
| Thickness, insulation | ≥ 0.15 mm (Inner sheath) ≥ 0.76 mm (Outer cable sheath) |
| Overall twist | Wires twisted in layers |
| Nominal voltage, cable | 300 V |
| Test voltage | 2000 V |
| Minimum bending radius, fixed installation | 7.5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 71 mm |
| Smallest bending radius, movable installation | 94 mm |
| Max. bending cycles | 1500000 |
| Flame resistance | DIN EN 50265 |
| Resistance to oil | according to VDE 0472 Part 803 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
| Special properties | Silicone-free |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation) 80 °C (in acc. with UL) |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP65 IP67 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

Standards and regulations

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440108 |
| ECLASS-12.0 | 27440108 |
| ECLASS-13.0 | 27440108 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002585 |
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UNSPSC

| | |
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| UNSPSC 21.0 | 31251500 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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