



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 1790030000  |
| Part designation | HDC S6 6 SAS  |
| Version          | HDC insert, Pin, 690 V, 100 A, Poles: 6 + 6 + PE, Axial screw connection, Size: 8 |
| EAN              | 4032248212095   |
| Qty.             | 10 pc(s).   |

#### Product notes

|                      |  |
|----------------------|--|
| Note, ordering data  | Please note: the signal contacts are designed for a rated voltage of 400V and a rated current of 16A.              |
| Note, technical data | PE connection via middle axial screw for both conductor and power contact.   |
| Note, accessories    | Use spanner size 3 AF for axial screw connection<br><BR/>For additional accessories, refer to Accessories chapter. |

**Dimensions**

High plug B 45.1 mm

**General data**

|                           |   |
|---------------------------|---|
| Colour                    | beige   |
| Insulating material group | IIIa  |
| Insulation material       | PC glass-fibre reinforced (UL-listed and railway-certified) |
| Insulation resistance     | $10^{10} \Omega$  |
| No. of poles, total       | 6 + 6 + PE  |
| Plugging cycles, silver   | $\geq 500$  |
| Pollution severity        | 3   |
| Temperature, max.         | 125 °C  |
| Temperature, min.         | -40 °C  |
| UL 94 flammability class  | V-0   |
| Size                      | 8   |
| Series                    | MixMate   |
| Type                      | Pin   |
| Type designation          | S6/6  |

**Connection data PE**

|   |                     |
|---|---------------------|
| Rated cross-section                                     | 4 mm <sup>2</sup>   |
| Fixing screw  | M 4                 |
| Min. tightening torque                                  | 1.2 Nm              |
| Blade size, crosshead                                   | size PZ1            |
| Max. tightening torque                                  | 1.5 Nm              |
| Blade size, slotted                                     | SD 0.8 x 4.0        |
| Stripping length  | 8 mm                |
| Max. connection cross-section, solid                    | 0.5 mm <sup>2</sup> |
| Min. connection cross-section, solid                    | 4 mm <sup>2</sup>   |
| Min. connection cross-section, stranded                 | 0.5 mm <sup>2</sup> |
| Connection type PE                                      | Screw connection    |
| Max. connection cross-section, stranded                 | 4 mm <sup>2</sup>   |
| Min. connection cross-section "f" with wire end ferrule | 0.5 mm <sup>2</sup> |
| Max. connection cross-section "f" with wire end ferrule | 4 mm <sup>2</sup>   |
| AWG, min.   | AWG 20              |
| AWG, max.   | AWG 12              |

**Rating data**

|                                      |             |
|--------------------------------------|-------------|
| Rated voltage (DIN EN 61984)         | 690 V       |
| Rated current (DIN EN 61984)         | 100 A       |
| Rated voltage according to UL/CSA    | 600 V AC/DC |
| Rated impulse voltage (DIN EN 61984) | 8 kV        |

**Version**

|                        |                        |
|------------------------|------------------------|
| Type of connection     | Axial screw connection |
| Min. tightening torque | 6 Nm                   |
| Max. tightening torque | 8 Nm                   |
| Stripping length       | 13 mm                  |
| Material               | copper alloy           |

### Version

|                                |                    |
|--------------------------------|--------------------|
| Connection cross-section, min. | 10 mm <sup>2</sup> |
| Connection cross-section, max. | 35 mm <sup>2</sup> |
| AWG, min.                      | AWG 8              |
| AWG, max.                      | AWG 2              |
| Size                           | 8                  |
| Surface finish                 | Silver passivated  |
| Volume resistance              | ≤ 4mΩ              |
| Clamping screw                 | M 7 x 0,75 mm      |

### Approvals

Approvals institutes



### Classifications

|            |             |
|------------|-------------|
| ETIM 2.0   | EC001121    |
| ETIM 3.0   | EC001121    |
| eClass 4.1 | 27-14-08-05 |
| eClass 5.0 | 27-14-34-19 |
| eClass 5.1 | 27-14-34-19 |

### Similar products

| Order No.  | Part designation | Version  |
|------------|------------------|--|
| 1789970000 | HDC S4 0 BAS     | HDC insert, Socket, 830 V, 80 A, Poles: 4 + 0 + PE, Axial screw connection, Size: 6  |
| 1789960000 | HDC S4 0 SAS     | HDC insert, Pin, 830 V, 80 A, Poles: 4 + 0 + PE, Axial screw connection, Size: 6     |
| 1789980000 | HDC S4 BAS       | HDC insert, Socket, 1000 V, 65 A, Poles: 4 + PE, Axial screw connection, Size: 3     |
| 1789990000 | HDC S4 SAS       | HDC insert, Pin, 1000 V, 65 A, Poles: 4 + PE, Axial screw connection, Size: 3        |
| 1790010000 | HDC S6 12 BAS    | HDC insert, Socket, 630 V, 48 A, Poles: 6 + 12 + PE, Axial screw connection, Size: 6 |
| 1790000000 | HDC S6 12 SAS    | HDC insert, Pin, 690 V, 48 A, Poles: 6 + 12 + PE, Axial screw connection, Size: 6    |
| 1790020000 | HDC S6 6 BAS     | HDC insert, Socket, 690 V, 100 A, Poles: 6 + 6 + PE, Axial screw connection, Size: 8 |