

SCHIEBEL modular plug SMod

1 General

Smod, the modular SCHIEBEL plug, is a crimp plug in modular design. It contains a power module for motor- and supply-connections and a control module to connect command- and indication-signals. The different kind of crimp contacts for power- and control-lines prevent that wrong connections occur during wiring and start-up operation.

2 Dimensions

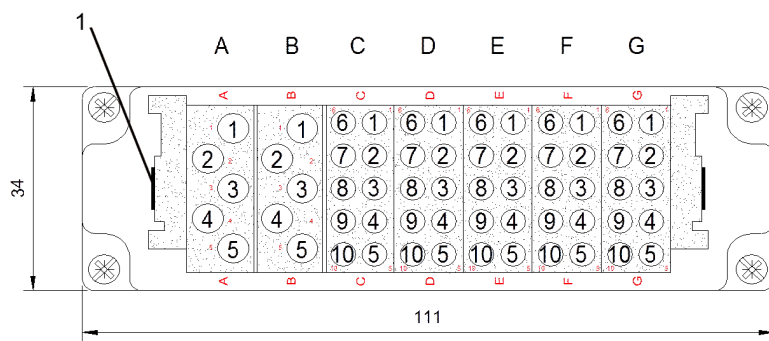


Figure 1: 1... ground contact (preleading),
 A-B... powermodule, C-G... controlmodule

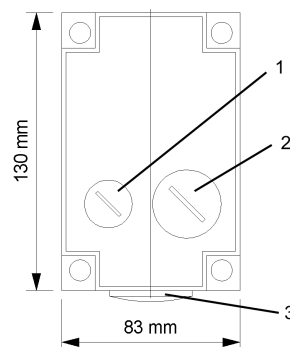


Figure 2: connectorhousing:
 1... M20x1,5,
 2 and 3... M32x1,5

3 Technical Data

3.1 General

| | |
|---|--|
| Ambient temperature..... | -40...+100°C (acc. to IEC 60512-6; Test 11i) |
| Pollution degree..... | 3 (acc. to DIN VDE 0110 T2 /1.89) |
| Installation overvoltage category | III (acc. to DIN VDE 0110 T2 /1.89) |
| Insulation resistance | >10 ¹⁰ Ω |
| Number of insertion cycles | ≥500 |
| Material..... | thermoplastic |
| Flammability..... | V-0 (acc. to UL 94) |

3.2 Power module

| | |
|--|---|
| Rated voltage..... | 400V |
| Rated impulse withstand voltage | 6kV |
| Rated current | 20A ¹⁾ (acc. to IEC 512) |
| Possible cross sections for connection | 0,5; 0,75; 1; 1,5 (standard); 2,5; 4 mm ² |
| Kind of contact | turned 2,5mm crimp contacts, silver-plated |
| Contact resistance | ≤2mΩ |

¹⁾Reference value with full crimp contact capacity and 20°C / Possibility of higher currents without full crimp contact capacity.

3.3 Control module

| | |
|--|--|
| Rated voltage | 250V |
| Rated impulse withstand voltage | 4kV |
| Rated current | 10A ¹⁾ (acc. IEC 512) |
| Possible cross sections for connection | 0,37; 0,5; 0,75; 1; 1,5 (standard); 2,5 mm ² |
| Kind of contact | turned 1,6mm crimp contacts, silver-plated |
| Contact resistance | ≤5mΩ |

3.4 Cable gland into connector housing

| | |
|------------------|--------------------------|
| Screw plug | 1 x M20x1,5, 2 x M32x1,5 |
|------------------|--------------------------|

3.5 crimping tool

| | |
|---------------------|--|
| crimp tool: | CTX CM 1,6/2,5 from company Weidmüller order no.: 9018490000 |
| removal tool: | Removal Tool CM 5 from company Weidmüller order no.1866720000 |
| removal tool: | Removal Tool 1,6 from company Connex Electronics order no. 1102855-2 |

¹⁾Reference value with full crimp contact capacity and 20 °C / Possibility of higher currents without full crimp contact capacity.