

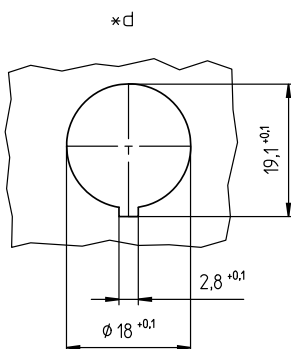
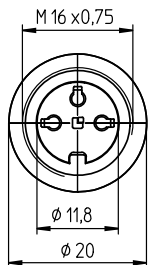
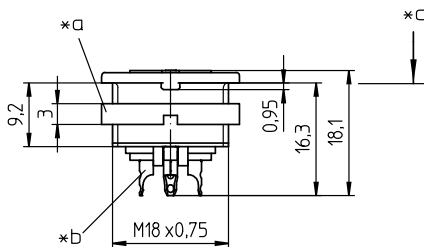
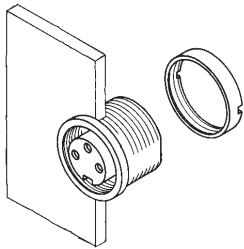
03 KfV

Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP68



Chassis socket acc. to IEC 61076-2-106, IP40, with threaded joint and solder terminals, for front mounting

03 KfV



Environmental conditions

Temperature range -40 °C/+85 °C

Materials

Insulating body PA GF, V-0 according to UL94
Contact bush CuZn, pre-nickel and silver-plated, passivated (3-8 poles)
CuZn, pre-nickel and gold-plated (12 poles)
Housing Zn diecast, pre-copper and nickel-plated
Ring screw CuZn, nickel-plated

Mechanical data

Insertion force/contact ≤ 5.0 N¹
Withdrawal force/contact ≥ 1.2 N (3-8 poles)
≥ 0.9 N (12 poles)¹
Tightening torque connector 1-3 Nm
Tightening torque nut 1-3 Nm
Thickness of mounting plate 1-5 mm
Protection class IP40²

¹ measured with a polished steel pin, nominal thickness 1.5 mm (1.0 mm with 12 poles)

² according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

Connectable conductors for solder area

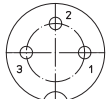
Section ≤ 0.75 mm² (AWG 20) (3-8 poles)
≤ 0.25 mm² (AWG 24) (12 poles)

Electrical data (at T_{amb} 20 °C)

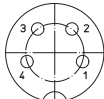
Contact resistance ≤ 5 mΩ
Rated current 5 A (T_{amb} 40 °C, 3-8 poles)
3 A (T_{amb} 40 °C, 12 poles)
Rated voltage with pollution degree 1:
300 V (versions 30, 40, 50/6, 60, 70)
100 V (versions 50, 71, 80, 81)
160 V (Polbild 120)
with pollution degree 2:
250 V (versions 30, 40)
32 V (versions 50, 71, 80, 81)
160 V (versions 50/6, 60, 70, 120)
Rated impulse voltage 1500 V (versions 30, 40, 50/6, 60, 70, 120)
500 V (versions 50, 71, 80, 81)
Material group II (IEC)/I (UL) (400 ≤ CTI < 600)
Overvoltage category I
Insulation resistance > 100 MΩ

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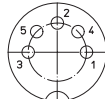
Pin configurations, solder side view



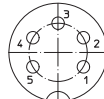
03-a
KfV 30



04-a
KfV 40



05-b
KfV 50



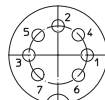
05-a
KfV 50/6



06-a
KfV 60



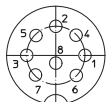
07-a
KfV 70



07-b
KfV 71



KfV 80



08-a
KfV 81



12-a
KfV 120

- *a nut enclosed separately
- *b cup-shaped solder terminal
- *c mounting direction
- *d port in mounting plate

Associated products

Counterparts

☑ SV	☑ SV ... C	☑ SV ...-8
☑ SV ...-8 C	☑ WSV	☑ WSV ... C

Accessories

☑ 0381	☑ 038199	☑ 0382
☑ 0384	☑ 0385	☑ 038799

Harnessing equipment

☑ ZMS 20

03 KfV

Designation	Pole Number	PU (Pieces)	MDQ (Pieces)
KfV 30	3	50	100
KfV 40	4	50	100
KfV 50	5	50	100
KfV 50/6	5	50	100
KfV 60	6	50	100
KfV 70	7	50	100
KfV 71	7	50	100
KfV 80	8	50	100
KfV 81	8	50	100
KfV 120	12	50	100

Packaging:
in a cardboard box