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Lumberg
passion for connections

03 KFV

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

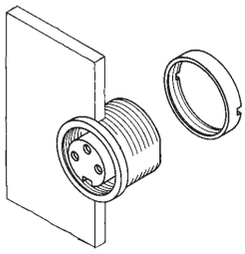


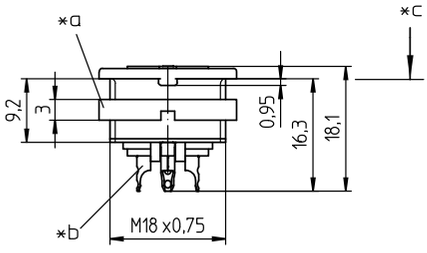
Chassis socket acc. to IEC 61076-2-106, IP40, with threaded joint and solder terminals, for front mounting

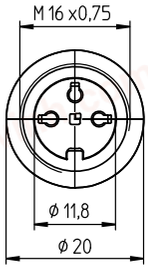
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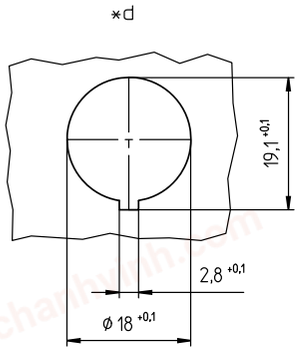
Lumberg
passion for connections

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 N [1]
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	IP40 [2]

[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)

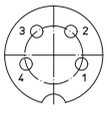
Contact resistance	≤ 5 mΩ
Rated current	5 A (T_{amb} 40 °C, 3-8 poles) 3 A (T_{amb} 40 °C, 12 poles)
Rated voltage	with pollution degree 1: 300 V (versions 30, 40, 50/6, 60, 70) 100 V (versions 50, 71, 80, 81) 160 V (Polbild 120) with pollution degree 2: 250 V (versions 30, 40) 32 V (versions 50, 71,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

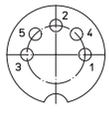
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03 KFV

Pin configurations, solder side view

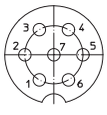

03-a
KFV 30

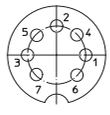

04-a
KFV 40


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

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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