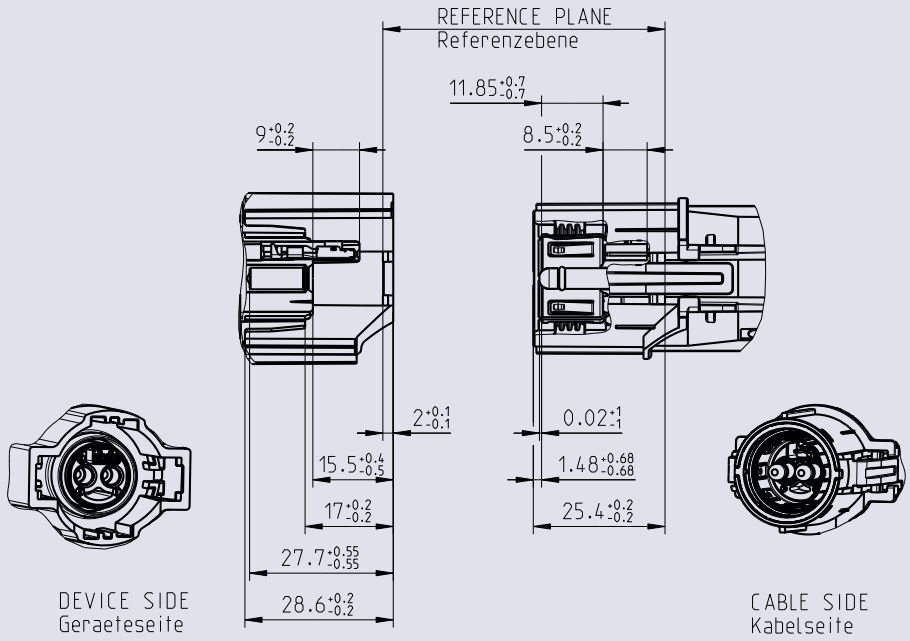
Interface Dimensions HVR®40

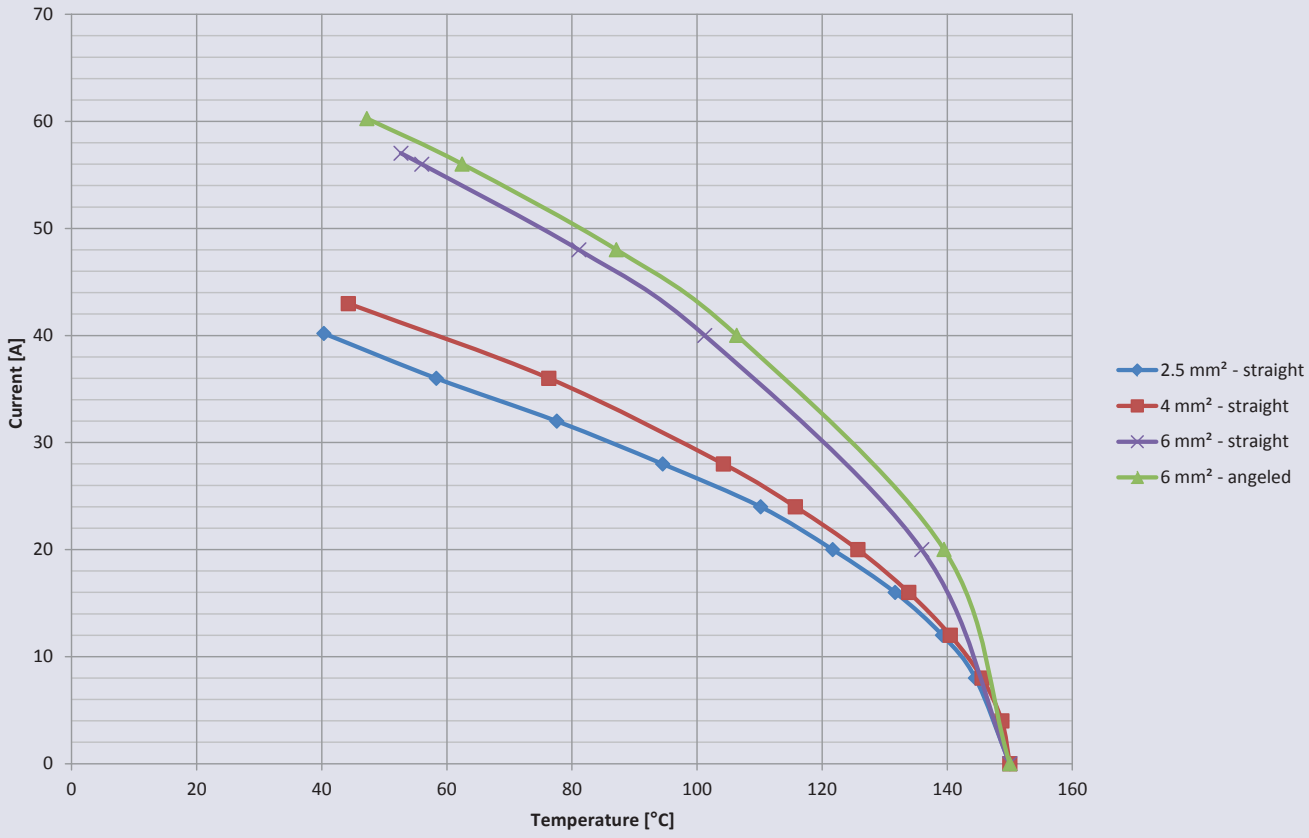
Code HV

Dimensions in mm



Derating Graph HVR®40 acc. to DIN EN 60512-5-2

2.5 mm², 4 mm², 6 mm² cables



Technical Data HVR®40

Code HV

Electrical data	
Insulation resistance	≥ 200 MΩ
Voltage class	B 60 V DC < U ≤ 1500 V DC 25 V AC < U ≤ 1000 V AC
Contact resistance (current)	≤ 1.36 mΩ
Contact resistance (EMV)	≤ 10 mΩ
Ampacity for 6 mm²	40 A at 105°C acc. to DIN EN 60512-5-2
Test voltage	2700 V DC
Working voltage	750 V DC
EMI (shielding effectiveness)	70 dB (10 kHz – 5 MHz) 65 dB (5 MHz – 500 MHz)
High Voltage Interlock (HVIL)	available
Mechanical data	
Mating cycles	≥ 50
Engagement force	≤ 100 N
Coding efficiency	≥ 280 N
Cable cross sections	2.5 mm², 4 mm², 6 mm²
Vibration class	LV215 PG17-II
IP class (mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB
Touch proof	acc. to DIN EN 60529
Environmental data	
Temperature range	-40 °C to +140 °C
RoHS	compliant

Design characteristics
Straight and right angle options on header side
Straight version on jack side only
Color coded caps per cable size

Limitations are possible due to the used cable type.

Fields of Application

- On board charger
- E-heater
- E-compressor

Interface Drawing

- RN_079-01