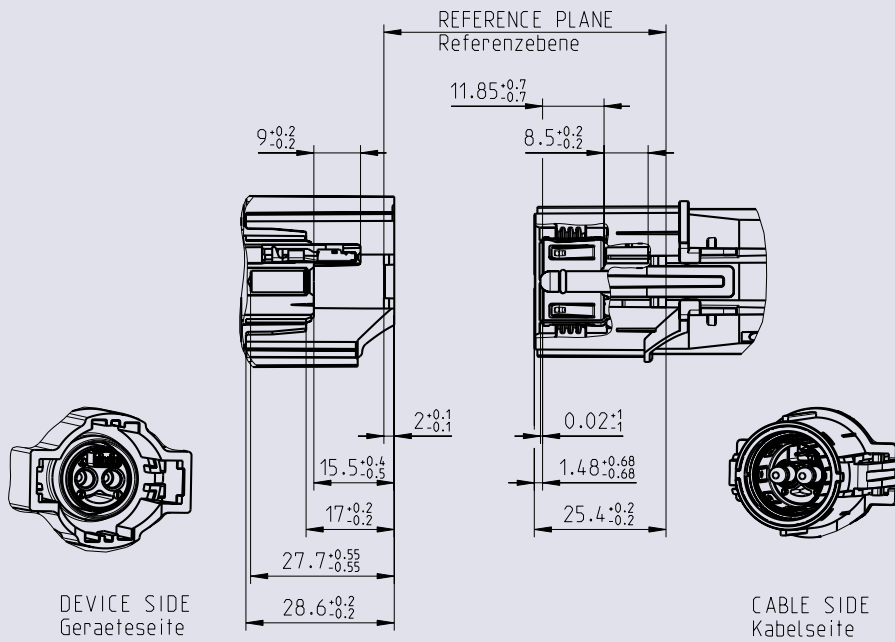


Interface Dimensions HVR[®]40

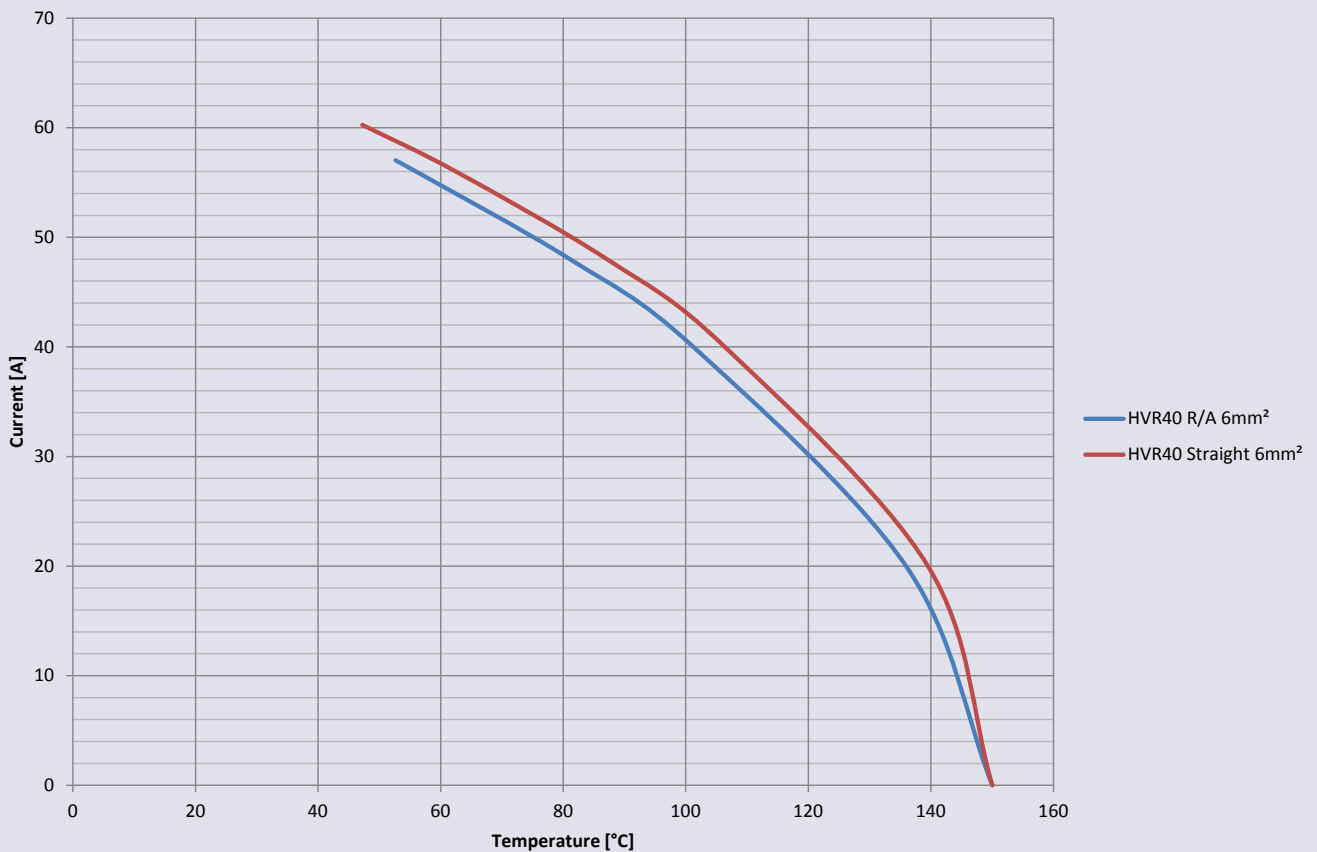
Code HV

Dimensions in mm



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

2 x 6 mm² cable (derating graphs for other cable sizes on request)



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 mm ²	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
Disengagement force	≥ 50 N
Retention force latch	≥ 500 N
Coding efficiency	≥ 300 N
Cable cross sections	2.5 mm ² , 4 mm ² , 6 mm ²
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