

All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

RN_103-01 (Interface drawing)

Documents

Assembly instruction cable manufacture	MA_HV0050
Assembly instruction	MA_HV0085
Recommended install instruction	MA_HV0089
Repair instruction	MA_HV0086

Material and plating

Connector parts

Center contact	Material	Plating
Outer contact	Copper	Ag, min. 3 µm
Insulator	Brass	Ag, min. 0.5 µm
Seal	PA10	black (sim. RAL 9005)
Crimp Ferrule	Silicon	blue (sim. RAL 5005)
Coding	Brass	Sn, min. 3 µm
C-Ring	PBT	red (sim. RAL 3001)/black (sim. RAL 9005)
Protective Cap	PA66	nature
Protective Cap C-Ring	PBT-GB30	black (sim. RAL 9005)
	PA10	black (sim. RAL 9005)

Material

Copper
Brass
PA10
Silicon
Brass
PBT
PA66
PBT-GB30
PA10

Plating

Ag, min. 3 µm
Ag, min. 0.5 µm
black (sim. RAL 9005)
blue (sim. RAL 5005)
Sn, min. 3 µm
red (sim. RAL 3001)/black (sim. RAL 9005)
nature
black (sim. RAL 9005)
black (sim. RAL 9005)

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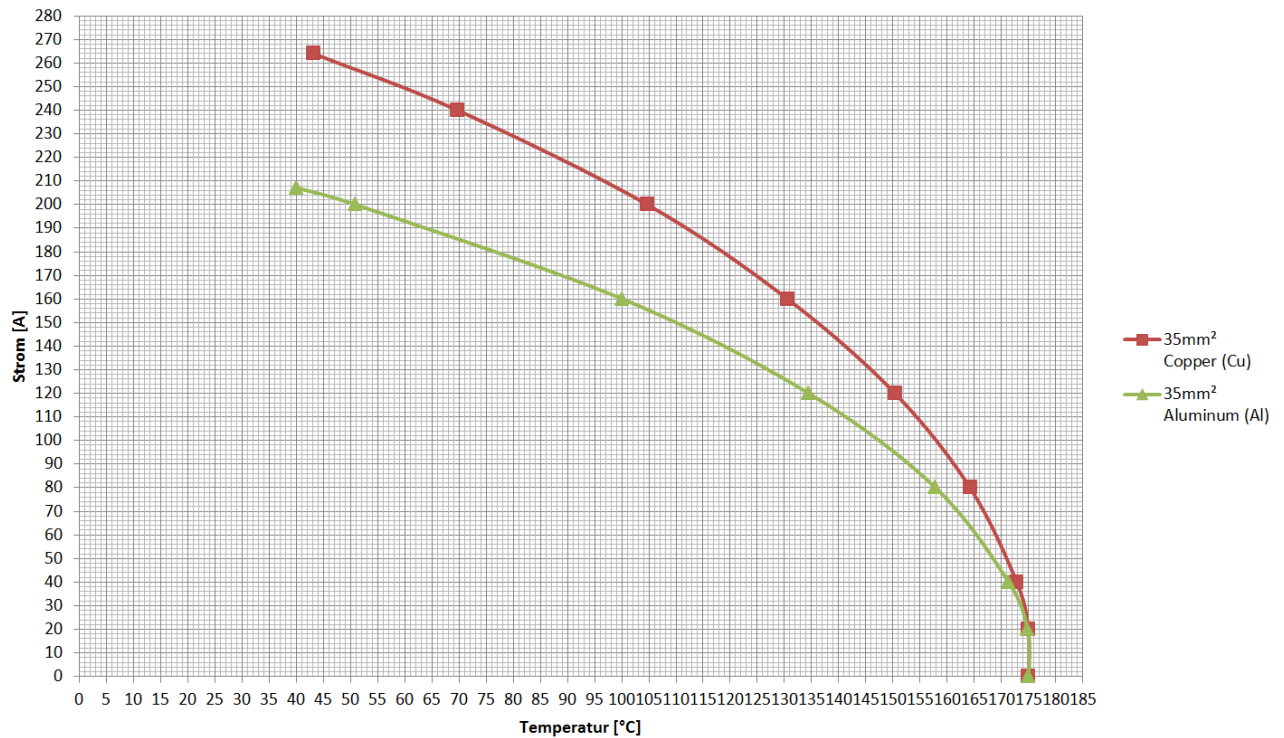
RF_35/09.14/6.2

Cables

Power cable see MA_HV0050

Electrical data

Insulation resistance > 200MΩ (at 1000VDC t=60s)
 Voltage class B
 Contact resistance (current) ≤0,7mΩ
 Contact resistance (EMV) < 9mΩ
 Pollution degree 2
 Type of Isolation 1 (CTI>600)
 Test voltage 4300 VDC
 Max operating altitude 5000m above sea level
 Working voltage 1000 V
 Ampacity **According to DINEN60512-5-2** see chart
35mm² Cu & Al (80% Derating curve, free in air)



EMI (shield effectiveness) 100 kHz – 50 MHz ≥60 dB
 50 MHz – 500 MHz ≥50 dB
 500 MHz – 1 GHz ≥45 dB
 High Voltage Interlock (HVIL) No

Mechanical data

Engagement force < 100N
 Coding efficiency > 300N
 IP class (mated) IPX6K9K, IPXXD
 Vibration Class SG 2/2 according to LV 214
 Holding force ≥500N

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RF_35/09.14/6.2

DCS

Straight Plug

H9S109-11F035B1-Y

Environmental data

Temperature range -40°C to 130°C
RoHS compliant

Application

Applicable for: H9K106-51-050/90B

Tooling



Crimping tool see MA_HV0050

Packing

Standard for packaging see data sheets of piece parts
Weight single parts without cable 62.4g/pcs.

Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		red	sim. 3001	H9S109-11F035B1-A
B		black	sim. 9005	H9S109-11F035B1-B

Change History

Rev.	Date	Change
e00	17.09.18	Power contact changed from H9S105-W1F070/23B to H9S105-W1F070/22B

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
T. Garten	29.09.15	F. Wein	17.09.18	e00	18-1721	R. Hochheim	17.09.18