|   | 2  | 3   | 4  | 5 6 7 8  |
|---|--|---|--|--|
|   |  |   | '  |  |
| HARTING   | DIN power femal  | le connector  | RoHS COMPliant                             | Low currents and voltages  |
|   | 5 power remer  |   | отрини • • • • • • • • • • • • • • • • • • | Type H standard contacts have a silver plated surface. This precious metal has excellent conductive properties. In the course of a contact's   |
|   |  | :   | :  | lifetime, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is partly interrupted when the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low currents or |
| General information   |  | <u>.</u>  | :  | voltages small changes to the  |
|   | :  | ÷   | ÷  | transmitted signal may be encountered. In systems where such a change to the transmitted signal could lead to faulty functions and also in extremely aggressive environments, HAI  |
| <br>Design  | complementary IEC 60603-2  | types: H female   |  | recommend the use of gold plated contacts.   |
| No. of contacts   | 16   |   |  | Below is a table derived from actual experiences.  |
| Contact spacing   | 10,16 mm / 6,5 mm between the rows   |   |  | Detow is a rable derived from actual experiences.  |
| Test voltage  | 3100 V   | •   |  |  |
| Contact resistance  | max. 8m0hm   | ·   |  |  |
| nsulation resistance  | min. 10½0hm  |   |  |  |
| Working current   | 15A at 20°C (see derating diagram)   |   |  | Silver   |
| Temperature range   | -55°C +125°C   | ,   |  | 5 V  |
| Termination technology  | faston   |   |  |  |
| Clearance   | min. 4,5 mm  |   |  | Gold   |
| <u>Creepage</u>   | min. 8,0 mm  |   |  |  |
| nsertion and withdrawal force   | 16pole max. 90N  | 500   |  | 5 mA   |
| Mating cycles   | - PL1 acc. to IEC 60603-2 =>   | 500 mating cycles   |  | <u> </u>   |
| JL file   | E102079  |   |  | <u> </u>   |
| RoHS - compliant  | Yes  |   |  | <u> </u>   |
| Leadfree  | Yes  |   |  | —  |
| Hot plugging  | No   | ,   |  | —  |
|   |  |   |  | <u> </u>   |
| Insulator material  | :  | :   | :  | <del>-</del>   |
| Material  | PBT (thermoplastics, glass fiber reinforc  | -amant 30%)   |  | <u> </u>   |
| Colour  | RAL 7032 (grey)  |   |  | <del></del>  |
| UL classification   | UL 94-V0   |   |  | <u>- </u>  |
| Material group acc. to IEC 60664-1  | IIIa (175 <u>&lt;</u> CTI < 400)   |   |  | <u> </u>   |
| NFF classification  | 13, F4   |   |  | <u>- </u>  |
| ::3331112411011   |  |   |  | <u> </u>   |
| Contact material  |  |   |  | <del>-</del>   |
|   |  | :   | :  | <del>-</del>   |
|   | Copper alley   |   |  |  |
| Contact material  | Copper alloy   | •   |  | <del></del>  |
|   | Ag   |   |  |  |
| Plating termination zone  |  |   |  | —  |
| Plating termination zone  | Ag   |   | · · · · · · · · · · · · · · · · · · ·      |  |
| Plating termination zone<br>Plating contact zone  | Ag<br>Ag   |   |  |  |
| Plating termination zone<br>Plating contact zone<br>Derating diagram acc. to IEC 60512-5 (Cur   | Ag Ag rent carrying capacity)  |   |  |  |
| Plating termination zone Plating contact zone  Derating diagram acc. to IEC 60512-5 (Curi   | Ag Ag rent carrying capacity)  | A   | · · · · · · · · · · · · · · · · · · ·      |  |
| Contact material Plating termination zone Plating contact zone  Derating diagram acc. to IEC 60512-5 (Curi The current carrying capacity is limited by temperature of materials for inserts and terminals.  | Ag Ag rent carrying capacity)  / maximum contacts including  | A<br>15   |  |  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Curl  The current carrying capacity is limited by temperature of materials for inserts and terminals.  The current capacity curve is valid for co   | Ag  Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non                                  | 15  |  |  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Curion  The current carrying capacity is limited by temperature of materials for inserts and terminals.  The current capacity curve is valid for contacts of contacts of contacts of contacts of contacts of contacts is given.   | Ag  Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when                   | 15  |  |  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by temperature of materials for inserts and terminals.  The current capacity curve is valid for conterrupted current loaded contacts of cosimultaneous power on all contacts is give                                      | Ag  Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when                   | 15  |  |  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Curification of the current carrying capacity is limited by temperature of materials for inserts and terminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature. | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15<br>12<br>[Y] Peo 9   |  |  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Curion  The current carrying capacity is limited by temperature of materials for inserts and terminals.  The current capacity curve is valid for cointerrupted current loaded contacts of co  | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15<br>12<br>[Y] Peo 9   |  | All Dimensions in mm Scale Free size tol.  Ref.  Characterist and the size of the size tol.  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by remperature of materials for inserts and reminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.             | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15  |  | Original Size DIN A3 1:1 Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by the emperature of materials for inserts and terminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.         | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15<br>12<br>[Y] Peo 9   |  | Original Size DIN A3 1:1 Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  All rights reserved Created by Inspected by Standardisation Date State  |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by emperature of materials for inserts and erminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.              | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | Electrical Load [A]   |  | Original Size DIN A3  1:1  Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  All rights reserved HAGEMEYERE TADJE HOFFMANN  Department so no no served HAGEMEYERE TADJE  HOFFMANN  Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  Standardisation Date State Final Release            |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by temperature of materials for inserts and terminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.            | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15   12   9   6   3   3   | 0 80 100 120 °                             | Original Size DIN A3  1:1  Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  All rights reserved HAGEMEYERE TADJE HOFFMANN  Department so no no served HAGEMEYERE TADJE  HOFFMANN  Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  Standardisation Date State Final Release            |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by remperature of materials for inserts and reminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.             | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15 12   Flectrical Load [A]   9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |  | Original Size DIN A3  1:1  Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  All rights reserved HAGEMEYERE  TADJE  HOFFMANN  Department EC PD - DE  HARTING Electronics GmbH  Title  DIN power female connector  Date  2014-09-12  Final Release  Doc-Key 100580727 500000076         |
| Plating termination zone  Plating contact zone  Derating diagram acc. to IEC 60512-5 (Cur  The current carrying capacity is limited by remperature of materials for inserts and reminals.  The current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.             | Ag  rent carrying capacity)  / maximum  contacts including  ntinuous, non  nnectors when en, without exceeding | 15 12   Flectrical Load [A]   9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 0 80 100 120 ° emperature [°C]             | Original Size DIN A3  1:1  Sub. DS 09 06 210 09 02 / EC01557 / 28.04.2011  All rights reserved HAGEMEYERE TADJE HOFFMANN 2014-09-12  Department EC PD - DE Title DIN power female connector  Doc-Key 10058072  |