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| | 19 (19-a) | C091 31N019 100 2 U | C091 31N019 200 2 U |
| | 14 (14-b) | C091 31N114 100 2 U | C091 31N114 200 2 U |
| | 14 (14-a) | C091 31N014 100 2 U | C091 31N014 200 2 U |
| | 12 (12-a) | C091 31N012 100 2 U | C091 31N012 200 2 U |
| | 8 (08-a) | C091 31N008 100 2 U | C091 31N008 200 2 U |
| | 7 (07-b) | C091 31N107 100 2 U | C091 31N107 200 2 U |
| | 7 (07-a) | C091 31N007 100 2 U | C091 31N007 200 2 U |
| | 6 (06-a) | C091 31N006 100 2 U | C091 31N006 200 2 U |
| | 5 (05-b) | C091 31N105 100 2 U | C091 31N105 200 2 U |
| | 5 (05-a) | C091 31N005 100 2 U | C091 31N005 200 2 U |
| | 4 (04-a) | C091 31N004 100 2 U | C091 31N004 200 2 U |
| | 3 (03-a) | C091 31N003 100 2 U | C091 31N003 200 2 U |

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|--|---|----------------|----------------|
| Contact arrangement View on mating side | Number of contacts (Contact arrangement acc. IEC 61076-2-106) | Part number-Ag | Part number-Au |
|--|---|----------------|----------------|

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|--|--|----------------------------|---|
| Gewicht (errechnet) / Calc WT: 0,011 kg Prüfmaß / Testdimension Teileindex / Partindexnumber: Bagatelle change: 10.02.2021 MCARLE | Zul. Abw./Tolerances: ISO 2768-c DIN / ISO 13715 | Maßstab / Scale: 2:1 A3 | CUSTOMER DRAWING |
| Gez. 10.06.2020 Drawn MCARLE Status Released Gepr. 11.01.2021 Checked MBERTSCH | Female receptacle front mounting | | Blatt/Sheet 1 1 Bl. |
| 02 202000083 26.10.2020 MCARLE Index Änderung/Description Datum/Date Name | Amphenol Tuchel Industrial GmbH | M C091 31NXXX X00 2 U | Ers. f. l. Replacement for: M-C091 31NXXX X00 2 U Rev01 |

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|---|-----------------------------------|--|------|-------------------|----------|--------------------|------|-------------------------------|------|-----------------|----------|--------------------------------|------|--|
| Number of contacts | Standard | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 12 | 14 | 14 | 19 | |
| Contact arrangement | IEC 61076-2-106 | 03-a | 04-a | 05-a | 05-b | 06-a | 07-a | 07-b | 08-a | 12-a | 14-a | 14-b | 19-a | |
| Contact arrangement | IEC 60130-9 ¹⁾ | yes | | no | | yes | | no | | no | | | | |
| Rated voltage ²⁾ | IEC 60664-1 | 300 V (100 V) | | 300 V (63 V) | | 100 V (32 V) | | 300 V (63 V) | | 100 V (32 V) | | 150 V (32 V) 60 V (32 V) | | |
| Rated voltage | UL 1977 | 250V | | | | | | | | 60V | | | | |
| Rated impulse withstand voltage ²⁾ | IEC 60664-1 | 1500 V (1500 V) | | 1200 V (800 V) | | 1500 V (1500 V) | | 1200 V (800 V) | | | | | | |
| Pollution degree ²⁾ | IEC 60664-1 | 1 (3 ³⁾) | | | | | | | | | | | | |
| Installation category | IEC 60664-1 | I | | | | | | | | | | | | |
| Insulation group | IEC 60664-1 | II, 400 ≤ CTI < 600 | | | | | | | | | | | | |
| Current rating | IEC 60512-5-2 UL 1977 | 10A/+40°C | | | 7A/+40°C | | | | | | 3A/+40°C | | | |
| Insulation resistance | IEC 60512-3-1 | >10 ¹⁰ Ohm ⁴⁾ | | | | | | | | | | | | |
| Contact resistance | IEC 60512-2-1 | <5mOhm | | | | | | | | | | | | |
| Climatic category | IEC 60668-1 | 40 / 100 / 56 | | | | | | | | | | | | |
| Temperatur range | IEC 60668-1 | -40°C...+100°C / -40°F...+212°F | | | | | | | | | | | | |
| Salt spray resistance | DIN IEC 60068-2-11, test Ka | 720h | | | | | | | | | | | | |
| IP degree | IEC 60529 | IP 69K / IP 67 / IP 65 (in mated condition) | | | | | | | | | | | | |
| Insertion and withdrawal force | IEC 60512-13-2 | 25N | 30N | 35N | 35N | 50N | 55N | 55N | 60N | 50N | 50N | 50N | 60N | |
| mechanical operation | IEC 60512-9-1 | Silver ≥500 mating cycles / Gold ≥1000 mating cycles | | | | | | | | | | | | |
| housing material | | brass and / or zinc die cast, nickel plated | | | | | | | | | | | | |
| dielectric material | | thermoplastic | | | | | | | | | | | | |
| sealing material | | Chloroprene | | | | | | | | | | | | |
| contacts | | silver or gold plated | | | | | | | | | | | | |
| termination technique | | solder | | | | | | | | | | | | |
| wire gauge | | ≤0,5mm ² / 20 AWG | | | | | | ≤0,35mm ² / 22 AWG | | | | | | |
| flamability | | UL 94 V0 | | | | | | | | | | | | |
| locking system | IEC 60130-9 DIN EN 61076-2-106 | metal screw coupling; tightening torque 0,7 - 1,5 Nm | | | | | | | | | | | | |

¹⁾ Edition 2000-05
²⁾ values in brackets are according to DIN EN 61076-2-106
³⁾ designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled
⁴⁾ under operating conditions >10⁸ Ohm

Do not connect or disconnect under load Metal housing parts shall be securely incorporated to protected ground
 Remark for gold plated contacts:
 In order to avoid brittle inter-metallic connections, gold plated terminals have to be tin-plated in the solder area.
 All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding, particularly the information does not constitute or provide any legal guaranties ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

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