



	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

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	Zul. Abw./Tolerances:	Maßstab / Scale: 2:1	A3
Prüfmaß / Testdimension	ISO 2768-c	CUSTOMER DRAWING	
Teileindex / Partindexnumber:	DIN / ISO 13715		
Bagatelle change: 10.02.2021 MCARLE			

Gez. Drawn	10.06.2020	Female receptacle front mounting
Status	Released	
Gepr. Checked	11.01.2021	
	MBERTSCH	

02	202000083	26.10.2020	MCARLE	Amphenol Tuchel Industrial GmbH	M C091 31NXXX X00 2 U	Blatt/Sheet
Index	Änderung/Description	Datum/Date	Name			1 Bl.

Ers. f. l. Replacement for: M-C091 31NXXX X00 2 U Rev01

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 <sup>1)</sup>	yes		no		yes		no		no			
Rated voltage <sup>2)</sup>	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 <sup>2)</sup>	IEC 60664-1	1500 V (1500 V)	1200 V (800 V)	1500 V (1500 V)					1200 V (800 V)				
Pollution degree <sup>2)</sup>	IEC 60664-1	1 (3 <sup>3)</sup> )											
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 <sup>10</sup> Ohm <sup>4)</sup>											
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 <sup>2</sup> / 20 AWG						≤0,35mm <sup>2</sup> / 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											

<sup>1)</sup> Edition 2000-05  
<sup>2)</sup> values in brackets are according to DIN EN 61076-2-106  
<sup>3)</sup> designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled  
<sup>4)</sup> under operating conditions >10<sup>8</sup> 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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