

HDC S6 6 SAS



The MixMate series of connectors can simultaneously transmit high rated currents and voltages as well as signals. An axial screw can be used to secure the wire.
Axial screw connection / TOP connection

General ordering data

Version	HDC insert, Male, 690 V, 100 A, Number of poles: 12, Axial screw connection, Installation size: 8
Order No.	1790030000
Type	HDC S6 6 SAS
GTIN (EAN)	4032248212095
Qty.	1 items

Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E92202

Dimensions and weights

Depth	111 mm	Depth (inches)	4.3701 inch
Height	47.8 mm	Height (inches)	1.8819 inch
Width	34 mm	Width (inches)	1.3386 inch
Net weight	286 g		

Temperatures

Limit temperature	-40 °C ... 125 °C
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	d447edfa-0214-4f34-b5ba-82eae491b46a

Chemical resistance	Substance	Acetone
	Chemical resistance	Resistant
	Substance	Ammonia, watery
	Chemical resistance	Conditionally resistant
	Substance	Petrol
	Chemical resistance	Resistant
	Substance	Benzene
	Chemical resistance	Resistant
	Substance	Diesel oil
	Chemical resistance	Conditionally resistant
	Substance	Acetic acid, concentrated
	Chemical resistance	Resistant
	Substance	Potassium hydroxide
	Chemical resistance	Conditionally resistant
	Substance	Methanol
	Chemical resistance	Conditionally resistant
	Substance	Motor oil
	Chemical resistance	Conditionally resistant
	Substance	Lye, diluted
	Chemical resistance	Resistant
Substance	Hydrochlorofluorocarbons	
Chemical resistance	Conditionally resistant	
Substance	Outdoor use	
Chemical resistance	Conditionally resistant	

Dimensions

Width	34 mm	Total length base	111 mm
Height of plug	47.8 mm		

HDC S6 6 SAS

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

General data

Number of poles	12	
Tightening torque	0.5 Nm	
Plugging cycles, silver	≥ 500	
Plugging cycles, gold	≥ 500	
Type of connection	Axial screw connection	
Installation size	8	
UL 94 flammability rating	V-0	
Volume resistance	≤1 mΩ	
Colour	beige	
Insulation resistance	1010 Ω	
Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)	
Insulating material group	IIIa	
Tightening torque, max. PE connection	8 Nm	
Surface finish	Silver passivated	
Type	Male	
Pollution severity	3	
Tightening torque, min. PE connection	6 Nm	
Basic material	Copper alloy	
Series	MixMate	
Rated voltage (DIN EN 61984)	690 V	
Rated voltage according to UL/CSA	600 V AC/DC	
Rated impulse voltage (DIN EN 61984)	8 kV	
Rated current (DIN EN 61984)	100 A	
Rated current (UR)	Wire connection cross section AWG	AWG 12
	Rated current	25 A
Rated current (cUR)	Wire connection cross section AWG	AWG 12
	Rated current	20 A
Free from halogens	true	
Low smoke acc. DIN EN 45545-2	Yes	
BG	8	
Number of signal contacts	6	
Number of power contacts	6	

Connection data PE

Connection type PE	Screw connection	Stripping length PE connection	8 mm
Tightening torque, max. PE connection	8 Nm	Tightening torque, min. PE connection	6 Nm
Rated cross-section	35 mm ²	Wire cross section, AWG (PE), min.	AWG 6
Wire cross section, AWG (PE), max.	AWG 2		

Power contact

Type of connection, power contact	Axial screw connection	Number of poles, performance contact	6
Tightening torque, max.	0.9 Nm	Tightening torque, min.	0.45 Nm
Tightening torque, power contact, max.	8 Nm	Tightening torque, power contact, min.	6 Nm
Stripping length, performance contact	13 mm	Clamping range, power contact, max.	35 mm ²
Clamping range, power contact, min.	16 mm ²	Rated voltage (DIN EN 61984), power contact	690 V
Rated impulse voltage (DIN EN 61984), power contact	8 kV	Rated current (DIN EN 61984), power contact	100 A
Hexagon socket	4 mm		

Signal contact

Type of connection, signal	Screw connection	Number of poles, signal	6
AF size signal contact	SD 0.6 x 3.5	Tightening torque, max.	0.9 Nm

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Tightening torque, min.	0.45 Nm	Tightening torque, signal contact, max.	0.8 Nm
Tightening torque, signal contact, min.	0.4 Nm	Clamping range, signal contact, max.	2.5 mm ²
Clamping range, signal contact, min.	0.5 mm ²	Stripping length, signal	12 mm
Rated voltage (DIN EN 61984), signal contact	400 V	Rated impulse voltage (DIN EN 61984), signal	6 kV
Rated current (DIN EN 61984), signal	16 A		

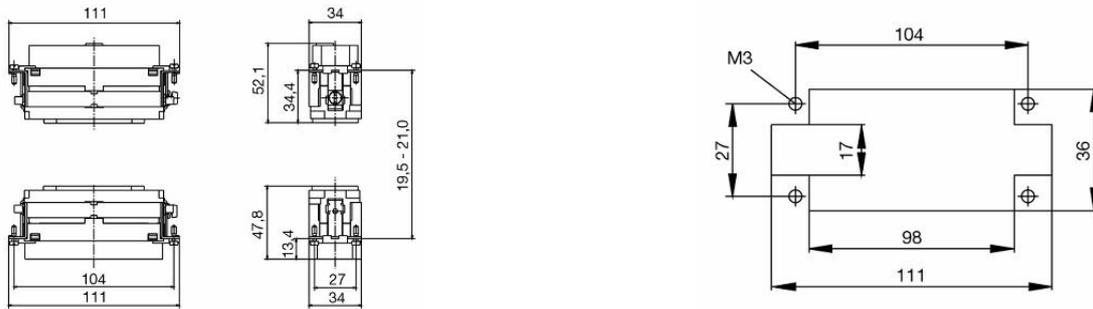
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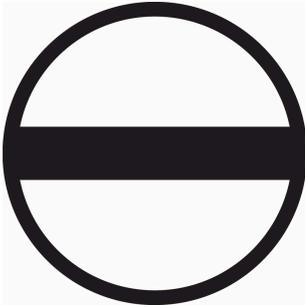
Wire connection cross section AWG, max.	AWG 2	Stripping length, rated connection	13 mm
Type of connection	Axial screw connection	Installation size	8
Volume resistance	≤1 mΩ	Clamping screw	M 7 x 0.75 mm
Wire connection cross section AWG, min.	AWG 6	Wire connection cross section, finely stranded, max.	35 mm ²
Wire connection cross section, finely stranded, min.	16 mm ²	Conductor cross-section, max.	35 mm ²
Conductor cross-section, min.	16 mm ²	Surface finish	Silver passivated
Basic material	Copper alloy	BG	8

Classifications

ETIM 8.0	EC000438	ETIM 9.0	EC000438
ETIM 10.0	EC000438	ECLASS 14.0	27-44-02-05
ECLASS 15.0	27-44-02-05		

Drawings



Accessories**Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1.
SoftFinish grip

General ordering data

Type	SDIS 0.6X3.5X100	Version	
Order No.	9008390000	Screwdriver, Screwdriver	
GTIN (EAN)	4032248056354		
Qty.	1 ST		
Type	SDS 0.6X3.5X100	Version	
Order No.	9008330000	Screwdriver, Screwdriver	
GTIN (EAN)	4032248056286		
Qty.	1 ST		