1 Datasheet X-TEC 15K MANUAL ASSEMBLY-male 6-13 MM



source

destination

2 Application

Connection of 3-phase consumers with 2 Signalpins

3 General component properties

3.1 Cataloguing

DESIGNATION	VALUE	UNIT
product designation of manufacturer	X-TEC 15 Accessories	
Manufacturer Article Number	1146871	
Application standards	PERFORMANCE	
UL Mark	No	
eCl@ss 9.0	27-44-03-90	
country of origin	DE	

08.11.2023-RSP	Adaptation Eclass	15.0		UL- Identification	Order no.	
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3.2 Electrical properties

DESIGNATION	VALUE	UNIT
rated current	16	A
Rated current auxiliary wires	10	A
rated voltage	600	V AC
Rated voltage auxiliary wires	250	V AC / DC
rated impulse voltage	6	kV
shielded	No	
protective conductor connection	according to VDE 0627	
Overvoltage category according to DIN EN 60664- 1	3	
Plugging under voltage according to DIN EN 61984	No	
degree of contamination	3	
protective conductors	yes (PE) 1,2mm leading	
neutral conductor	No	
Degree of protection by encapsulation according to IEC 60529	No	
Reference to standard	DIN EN 61984 / IEC 61076-2-116	

If the plug connection is disconnected for an indefinite period of time from a exposed to industrial atmospheres, the contact chamber is equipped with a cover cap to protect against pollution.

*To determine max. load currents, deratings for used connection conductor cross-sections as well as reduction factors for conductors, cables and lines in the electrical equipment of machines according to DIN EN 60204-1 must be taken into account.

3.3 Weights

DESIGNATION	VALUE	UNIT
Connector Source	34,8	g

3.4 Approval

DESIGNATION	VALUE	UNIT
UL.CCN **	No	
CSA.CCN **	No	
CCC	No	
GOST-R	No	
CE Nomenclature	X-TEC 15K-KXX-XXX-XXXX-KK-AX	

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3.5 Thermal properties

DESIGNATION	VALUE	UNIT
Max. operating temperature	70	°C
Fixed temperature range (LLT-ULT)	-25 +70	°C

3.6 UL Ratings

DESIGNATION	VALUE	UNIT
max. connectable conductor size (AWG/KCMIL)	16-14	AWG
Auxiliary wires Wire gauge	14	AWG
flame-resistant (in accordance with UL94)	НВ	

3.7 Other features

DESIGNATION	VALUE	UNIT
RoHS compliant	2011/65/EU	
REACH SVHC substances	-	
halogen-free	Yes	
oil and grease resistant	Yes	
flame-resistant	Yes	

The material of the housing-encapsulation is plastic and has a good resistance to chemicals and oil. If aggressive media are used, the material resistance must be checked in relation to the application. Further details on request.

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4 General structure

4.1 Allocation plan

1		1,5 mm² – 2,5 mm²
י ר	_	1,5 mm² – 2,5 mm²
2	_	1,5 mm ² – 2,5 mm ²
	_	1,5 mm² –2,5 mm²
	_	1,5 mm ² –2,5 mm ²
	_	1,5 mm ² –2,5 mm ²
D		

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5 Construction Source

5.1 Pole diagram Source

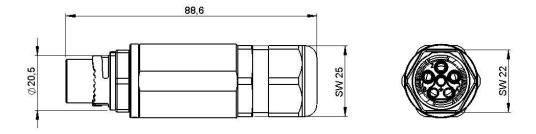


5.2 Construction Source

DESIGNATION	VALUE	UNIT
Size of construction	X-TEC 15	
Type of interlock	Quick release fastener	
Execution	free plug-in pin	
Number of poles	6	
Construction form of the plug connector	straight	
clamping area	6 - 13	mm
Material Seals	NBR, FPM	
production type	mounted	
material of housing	PA 6.6	
Material Insulating body	PA 6.6	
Conductor connection method	Crimp connection	
Material Contacts	Copper alloy, hard silver plated	
contact resistance	<3	mOhm
Mechanical life Contacts	500	mating cycles
connectable wires	fine to finely stranded	
Degree of protection (IP), mounted	IP65	

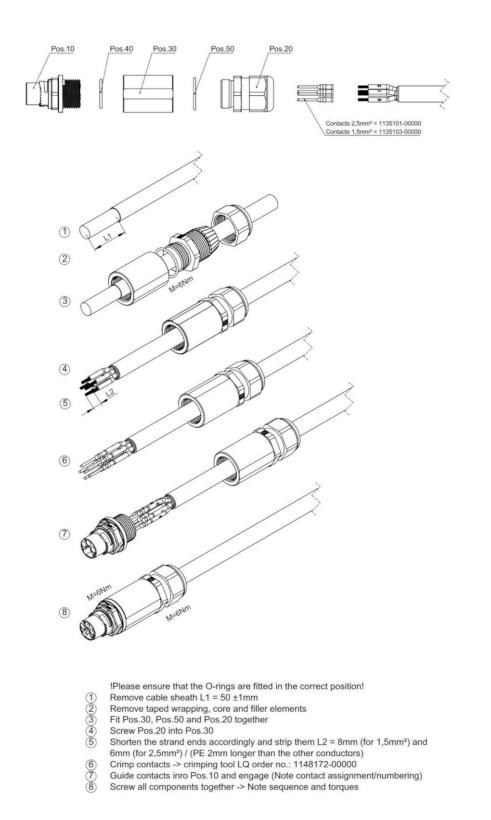
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5.3 Schematic diagram Source



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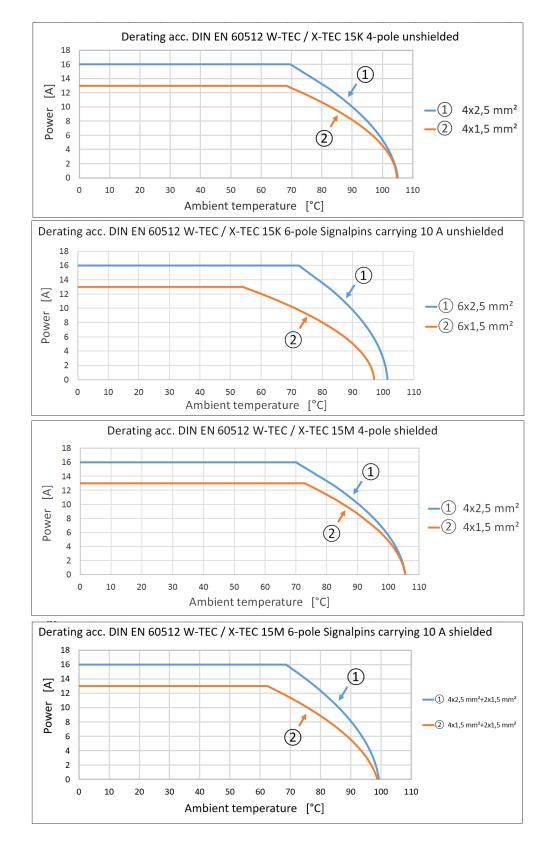
Assembly instructions 6



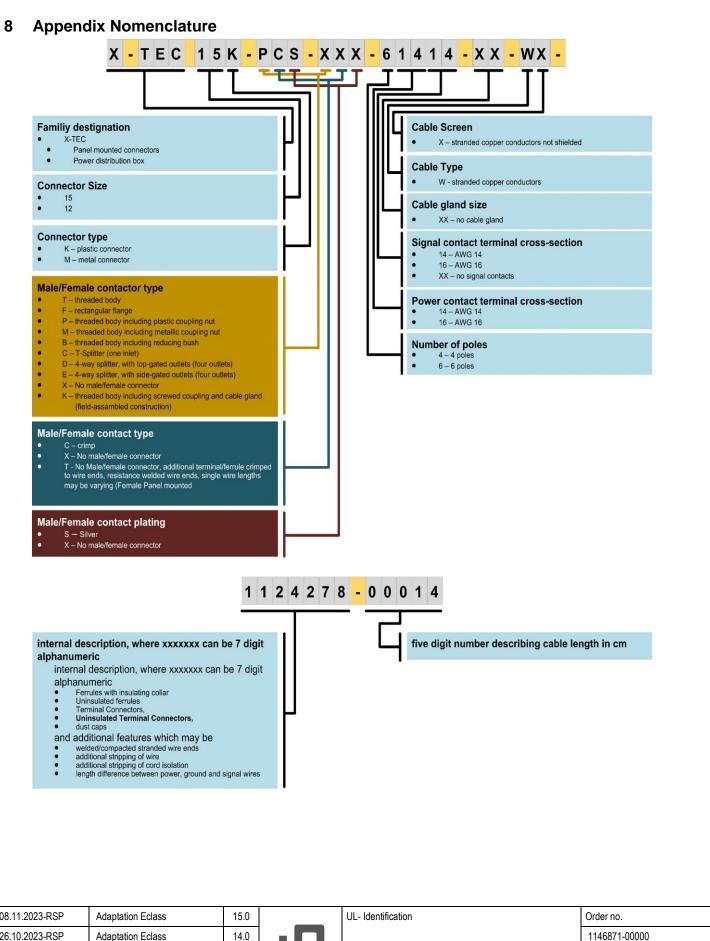
Adaptation Eclass UL- Identification 08.11.2023-RSP 15.0 Order no. 26.10.2023-RSP Adaptation Eclass 14.0 1146871-00000 24.08.2023-RSP Designation Rated current main wires * 13.0 Datasheet X-TEC 15K MANUAL ASSEMBLY-07.08.2023-RSP New: IEC 61076-2-116 12.0 Created Page LQ GROUP male 6-13 MM 09.11.2023-RSP Description of changes 7 Change No. Index The information contained in this data sheet was compiled with the greatest possible care. LQ Mechatronik-Systeme GmbH For correctness, completeness and topicality the liability is limited to gross negligence. Carl-Benz-Str. 6 D-74354 Besigheim All rights reserved to DIN 34

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Derating 7



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