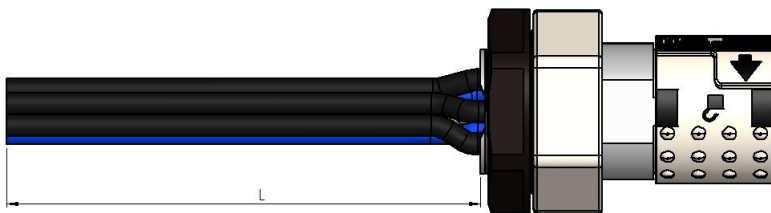


1 Datasheet X-TEC 15M Screw-in-Female 6x1.5



source

destination

xxxxx (see order no:) stands for the length in cm.


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	
Manufacturer Article Number	1155422	
Application standards	PERFORMANCE	
UL Mark	UL Listed	
eCl@ss 9.0	27-44-03-90	
country of origin	DE	

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24.08.2023-RSP	Rated current main wires *	12.0		Designation	Datasheet	
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3.2 Electrical properties

DESIGNATION	VALUE	UNIT
rated current	13	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	Yes	
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)	
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
Electrical connection	120	g/m
Connector Target	46,5	g


3.4 Approval

DESIGNATION	VALUE	UNIT
UL.CCN **	PVVA.E486020	
CSA.CCN **	PVVA7.E486020	
CCC	No	
GOST-R	No	
CE Nomenclature	X-TEC 15M-XXX-PCS-61616-XX-WX	

3.4.1 Approvals Supplements

** Suitable For Use On a Circuit Capable Of Delivering Not More Than 5,000 rms Symmetrical Amperes, 600V Maximum.

When Protected by Time Delay (See Table Below) Class Fuses:

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Cat. No(s).	Time Delay (TD) /Non-time delay (NTD)	Fuse Class	Fuse Current Rating (A)	SCCR (kA)	Voltage V AC
All rated 13 A	TD	RK5	25	5	600
	TD	J	60	50	600
	TD	CC	30	50	600
All rated 16 A	TD	RK5	35	5	600
	TD	J	60	50	600
	TD	CC	30	50	600

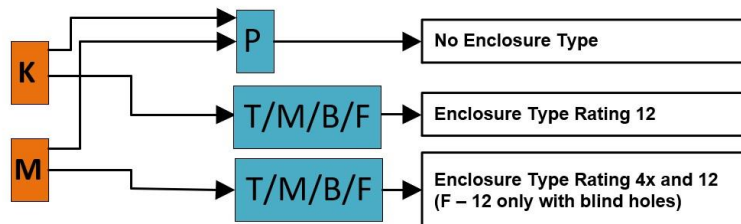
Suitable For Use On A Circuit Capable Of Delivering Not More Than 50kA rms Symmetrical Amperes, 480 Vac Maximum, When Protcted By A Circuit Breaker Rated Not More Than 16A, Having An Interrupting Rating Not Less Than 50kA rms Symmetrical Amperes, 480Vac Maximum.

Circuit Breakers:

Cat. No(s).	Model/Type	Manufacturer / UL File	Current Rating (A)	SCCR (kA)	Voltage V AC
All	Any	Any / Any	16	50	480Y/277 Vac

3.4.2 Enclosure Type Rating


X - T E C 1 5 - - - X X X ...



X - T E C 1 5 - X X X - - - ...

3.5 Thermal properties

DESIGNATION	VALUE	UNIT
Max. operating temperature	90	°C
Fixed temperature range (LLT-ULT)	-35 ... +90	°C

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3.6 UL Ratings

DESIGNATION	VALUE	UNIT
Reference to UL standard	2237	
max. connectable conductor size (AWG/KCMIL)	16	AWG
Auxiliary wires Wire gauge	16	AWG
Enclosure Type Rating	No	
flame-resistant (in accordance with UL94)	HB	

3.7 Other features

DESIGNATION	VALUE	UNIT
RoHS compliant	2011/65/EU under exception III 6c	
REACH SVHC substances	Lead (CAS 7439-92-1, EC 231-100-4)	
halogen-free	No	
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

_____	BK1	1,5 mm ²	_____	1
_____	BK2	1,5 mm ²	_____	2
_____	BK3	1,5 mm ²	_____	3
_____	GN-YE	1,5 mm ²	_____	⊕
_____	BU4	1,5 mm ²	_____	A
_____	BU5	1,5 mm ²	_____	B

4.2 electrical assembly

DESIGNATION	VALUE	UNIT
Main wires number	4	
max. connectable conductor cross-section	1,5	mm ²
External cable diameter, max.	3,1	mm
Auxiliary wires Number	2	
Auxiliary wires Wire gauge	1,5	mm ²
max. auxiliary core diameter incl. insulation D	3,1	mm
coat colour main wires	black/green-yellow	
coat colour auxiliary wires	blue	
Identification of main wires	consecutive number imprint (1-3)	
Identification of auxiliary wires	continuous letter printing (A-B)	
Core insulation material	PVC	

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5 Construction Destination

5.1 Pole diagram Target



5.2 Construction Destination

DESIGNATION	VALUE	UNIT
Size of construction	X-TEC 15	
Type of interlock	Quick release fastener	
Execution	Screw-in female	
Number of poles	6	
Construction form of the plug connector	straight	
Material Seals	NBR	
production type	mounted	
material of housing	Zinc, PA, nickel plated	
Material Insulating body	PA 6.6	
Type of connections	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	IP66/67	

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6 Mechanical representations


6.1 Schematic diagrams threaded

6.1.1 With plastic locknut

X - T E C 1 5 K - P - - - X X X ...	X - T E C 1 5 K - X X X - P - - ...
X - T E C 1 5 M - P - - - X X X ...	X - T E C 1 5 M - X X X - P - - ...

6.1.2 With metal locknut

X - T E C 1 5 K - M - - - X X X ...	X - T E C 1 5 K - X X X - M - - ...
X - T E C 1 5 M - M - - - X X X ...	X - T E C 1 5 M - X X X - M - - ...

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6.1.3 Without locknut

X - T E C 1 5 K - T _ _ - X X X ...	X - T E C 1 5 K - X X X - T _ _ ...
X - T E C 1 5 M - T _ _ - X X X ...	X - T E C 1 5 M - X X X - T _ _ ...

6.1.4 With reduction

X - T E C 1 5 K - B _ _ - X X X ...	X - T E C 1 5 K - X X X - B _ _ ...
X - T E C 1 5 M - B _ _ - X X X ...	X - T E C 1 5 M - X X X - B _ _ ...

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6.2 Drilling patterns for assembly

6.2.1 Threaded body plug

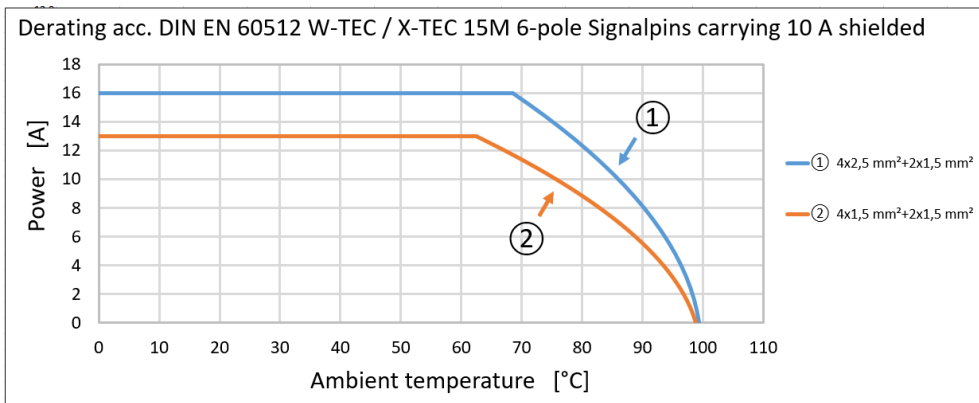
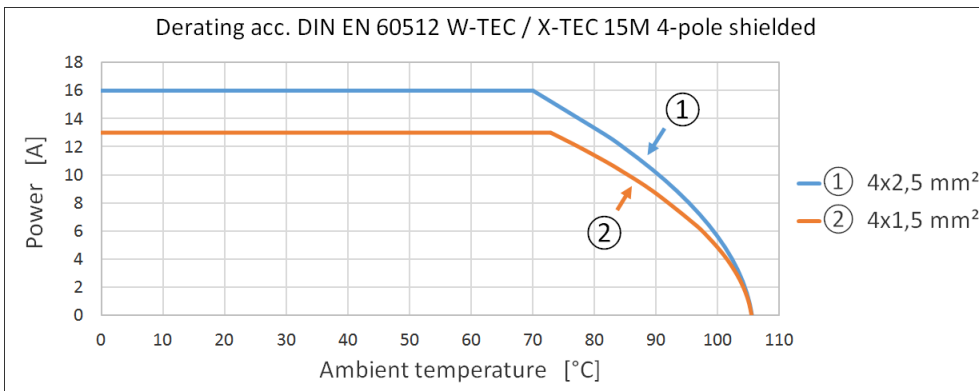
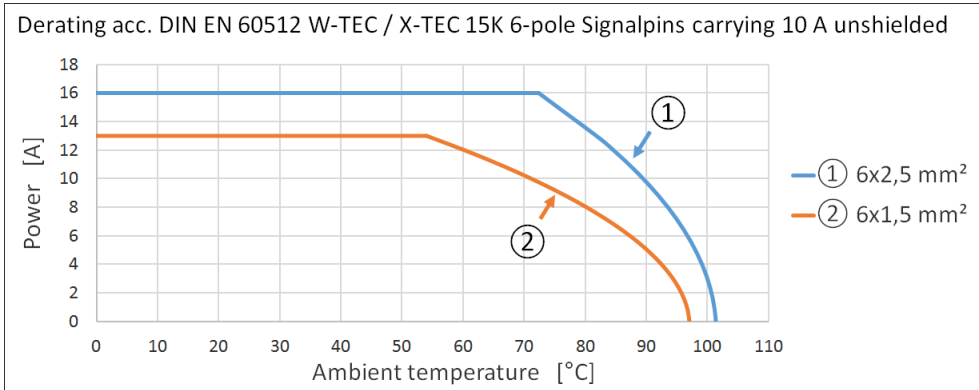
<p>X - T E C 1 5 - - - X X X ...</p> <p>K → T</p> <p>M → T</p> <p>X - T E C 1 5 - X X X - - - ...</p>	<p>M20x1.5 H6</p> <p>Ra max. 1.6</p> <p>A</p> <p>KXX=A max. 6.6mm MXX=A max. 2.0mm</p>
<p>X - T E C 1 5 - - - X X X ...</p> <p>K → B</p> <p>M → B</p> <p>X - T E C 1 5 - X X X - - - ...</p>	<p>M25x1.5 H6</p> <p>Ra max. 1.6</p> <p>A</p> <p>KXX=A max. 6.6mm MXX=A max. 2.0mm</p>
<p>X - T E C 1 5 - - - X X X ...</p> <p>K → T</p> <p>M → M</p> <p>X - T E C 1 5 - X X X - - - ...</p>	<p>Ø21 H12</p> <p>Ra max. 1.6</p> <p>A</p> <p>KXX=A max. 6.6mm MXX=A max. 2.0mm</p>


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7 Derating



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8 Appendix Nomenclature

X - T E C 1 5 K - P C S - X X X - 6 1 4 1 4 - X X - W X -

Family designation

- X-TEC
 - Panel mounted connectors
 - Power distribution box

Connector Size

- 15
- 12

Connector type

- K – plastic connector
- M – metal connector

Male/Female contactor type

- T – threaded body
- F – rectangular flange
- P – threaded body including plastic coupling nut
- M – threaded body including metallic coupling nut
- B – threaded body including reducing bush
- C – T-Splitter (one inlet)
- D – 4-way splitter, with top-gated outlets (four outlets)
- E – 4-way splitter, with side-gated outlets (four outlets)
- X – No male/female connector
- K – threaded body including screwed coupling and cable gland (field-assembled construction)

Male/Female contact type

- C – crimp
- X – No male/female connector
- T – No Male/female connector, additional terminal/ferrule crimped to wire ends, resistance welded wire ends, single wire lengths may be varying (Female Panel mounted)

Male/Female contact plating

- S – Silver
- X – No male/female connector

Cable Screen

- X – stranded copper conductors not shielded

Cable Type

- W – stranded copper conductors

Cable gland size

- XX – no cable gland

Signal contact terminal cross-section

- 14 – AWG 14
- 16 – AWG 16
- XX – no signal contacts

Power contact terminal cross-section

- 14 – AWG 14
- 16 – AWG 16

Number of poles

- 4 – 4 poles
- 6 – 6 poles

1 1 2 4 2 7 8 - 0 0 0 1 4

internal description, where xxxxxxx can be 7 digit alphanumeric


internal description, where xxxxxxx can be 7 digit alphanumeric

- Ferrules with insulating collar
- Uninsulated ferrules
- Terminal Connectors,
- **Uninsulated Terminal Connectors,**
- dust caps

and additional features which may be

- welded/compacted stranded wire ends
- additional stripping of wire
- additional stripping of cord isolation
- length difference between power, ground and signal wires

five digit number describing cable length in cm

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