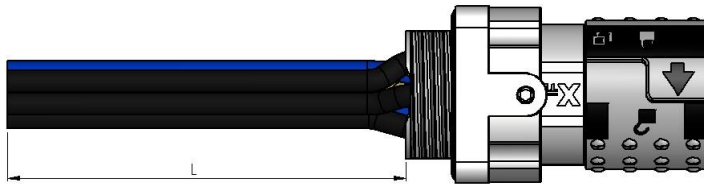


1 Datasheet X-TEC 15M Flange-Female 6x1.5



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 | 1155424 | |
| Application standards | PERFORMANCE | |
| UL Mark | UL Listed | |
| eCl@ss 9.0 | 27-44-03-90 | |
| country of origin | DE | |

| | | | | | | |
|----------------|------------------------|-------|---|-------------------------------|------------------|------|
| 08.11.2023-RSP | Adaptation Eclass | 12.0 |  | UL- Identification | Order no. | |
| 27.10.2023-RSP | Adaptation Eclass | 11.0 | | X-TEC 15M-XXX-FCS-61616-XX-WX | 1155424-xxxxx | |
| 07.08.2023-RSP | New: IEC 61076-2-116 | 10.0 | | 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 | 57,8 | 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-FCS-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:

| | | | | | | |
|----------------|------------------------|-------|---|-------------------------------|------------------|------|
| 08.11.2023-RSP | Adaptation Eclass | 12.0 |  | UL- Identification | Order no. | |
| 27.10.2023-RSP | Adaptation Eclass | 11.0 | | X-TEC 15M-XXX-FCS-61616-XX-WX | 1155424-xxxxx | |
| 07.08.2023-RSP | New: IEC 61076-2-116 | 10.0 | | Designation | Datasheet | |
| 07.08.2023-RSP | New: IEC 61076-2-116 | 9.0 | | X-TEC 15M Flange-Female 6x1.5 | Created | Page |
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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 |

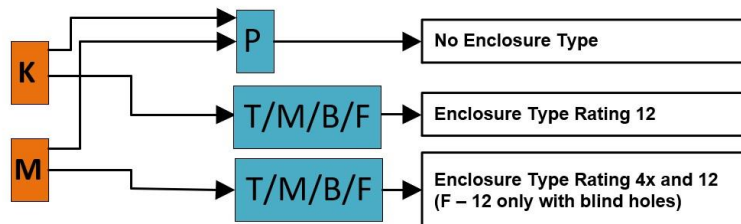
Suitable For Use On A Circuit Capable Of Delivering Not More Than 50kA rms Symmetrical Amperes, 480 Vac Maximum, When Protcted By A Circuit Breaker Rated Not More Than 16A, Having An Interrupting Rating Not Less Than 50kA rms Symmetrical Amperes, 480Vac Maximum.

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 |

| | | | | | |
|----------------|------------------------|-------|---|-------------------------------|------------------|
| 08.11.2023-RSP | Adaptation Eclass | 12.0 |  | UL- Identification | Order no. |
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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 | 4X, 12 | |
| 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 | Socket 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 | |

| | | | | | | |
|----------------|------------------------|-------|---|-------------------------------|------------------|------|
| 08.11.2023-RSP | Adaptation Eclass | 12.0 |  | UL- Identification | Order no. | |
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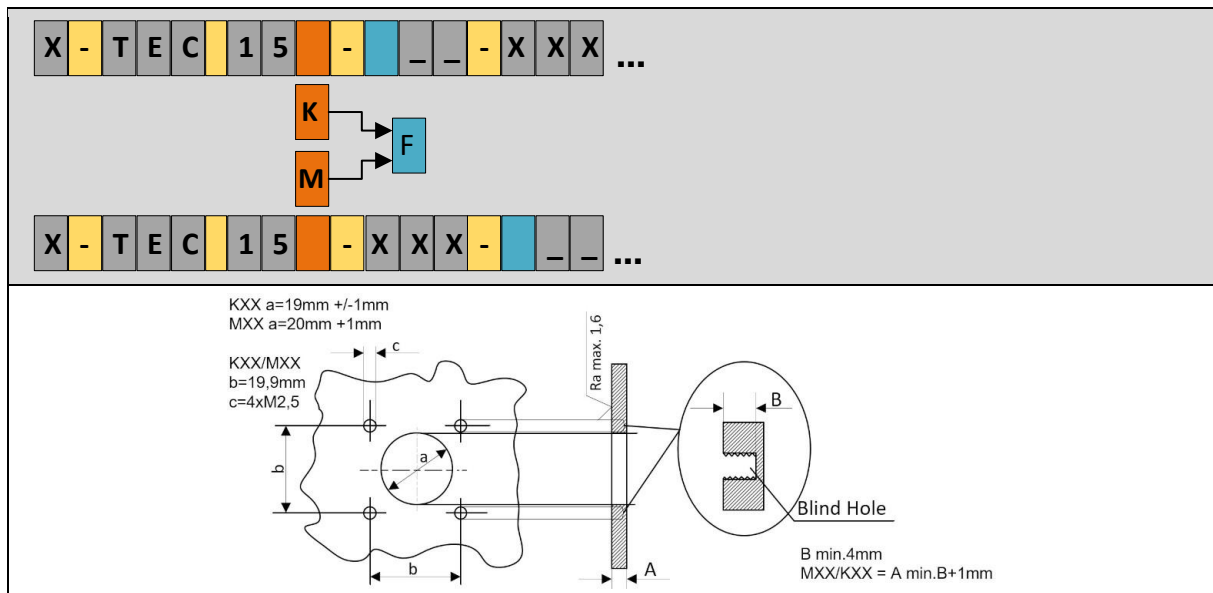
6 Mechanical representations

6.1 Schematic diagrams Attachment

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

6.2 Drilling patterns for assembly

6.2.1 Attachment plug

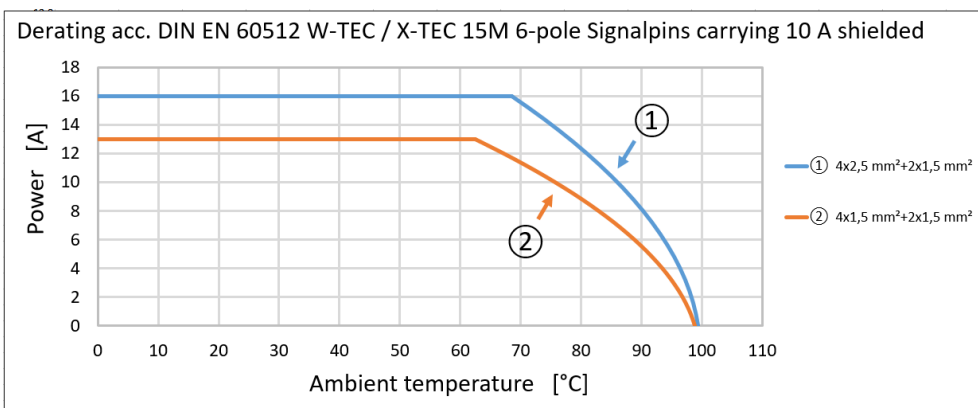
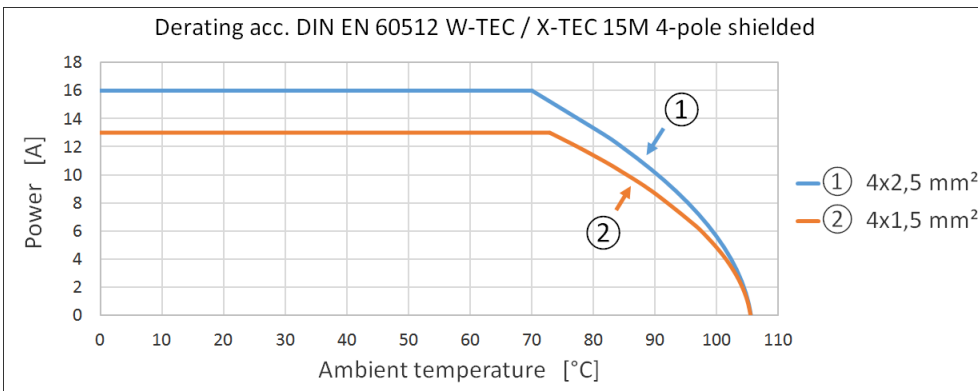
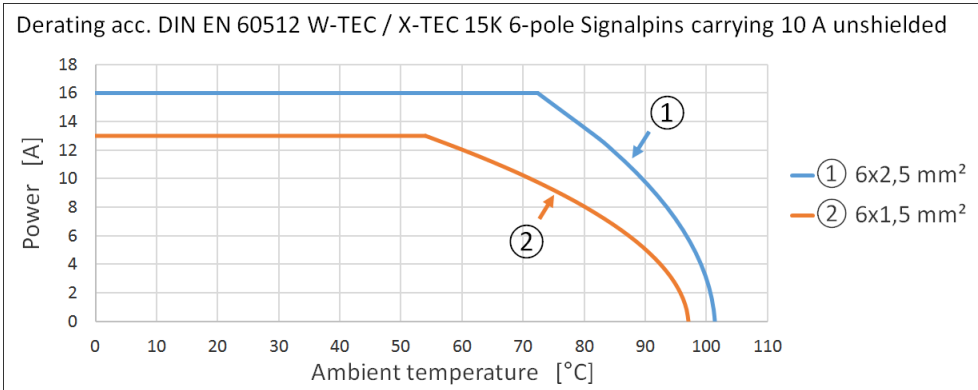
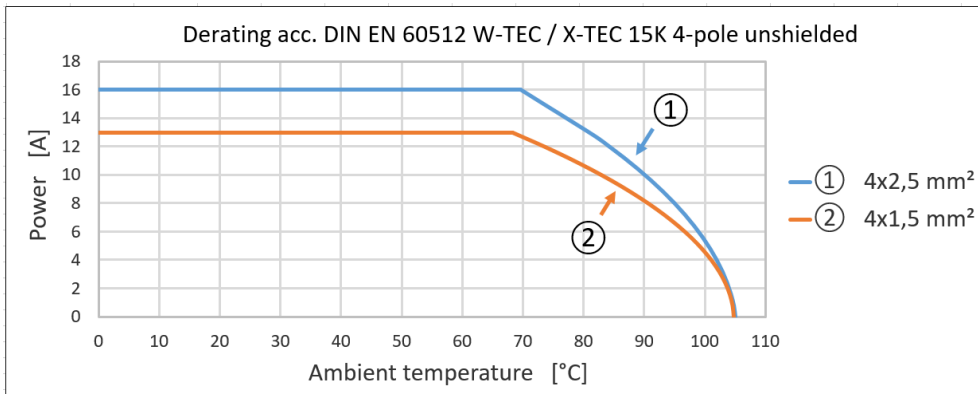



| | | | | | |
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7 Derating



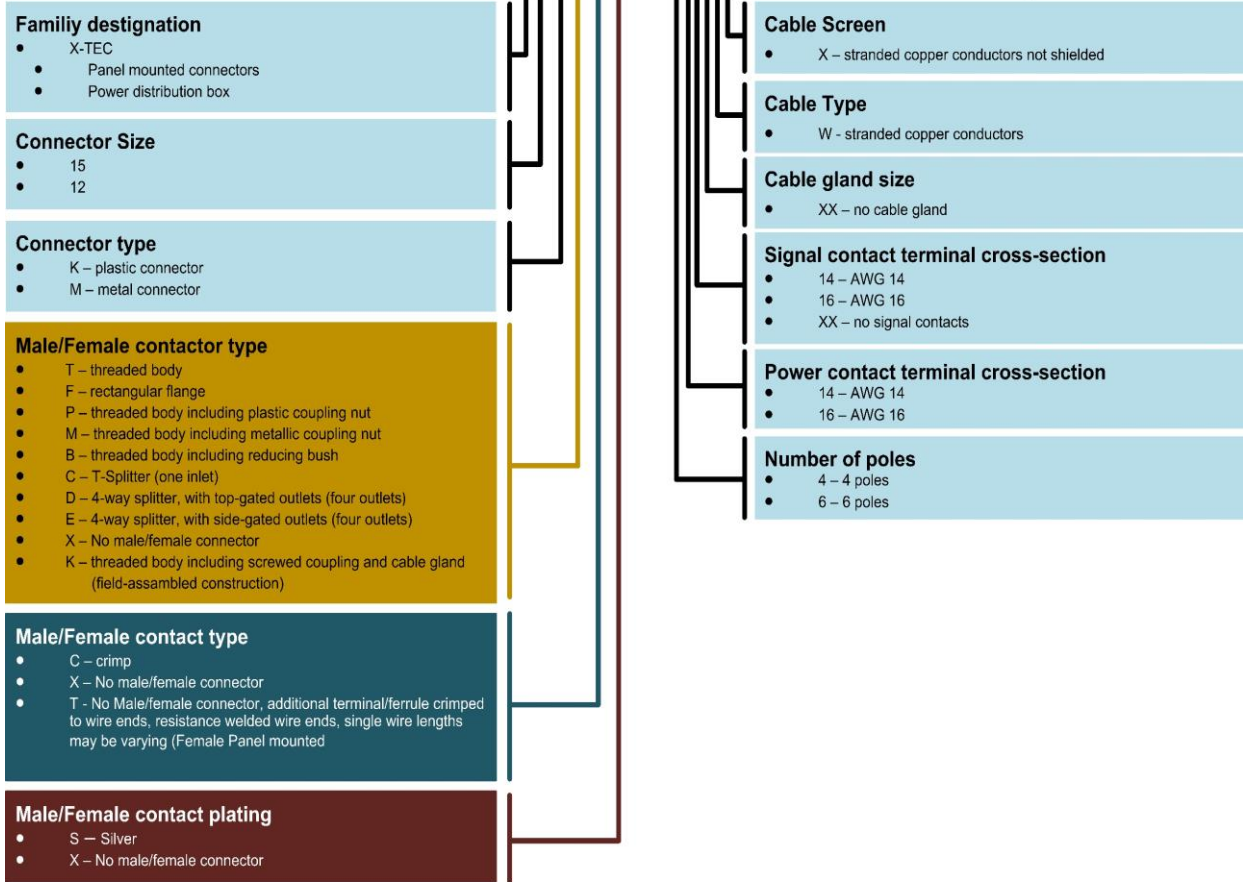
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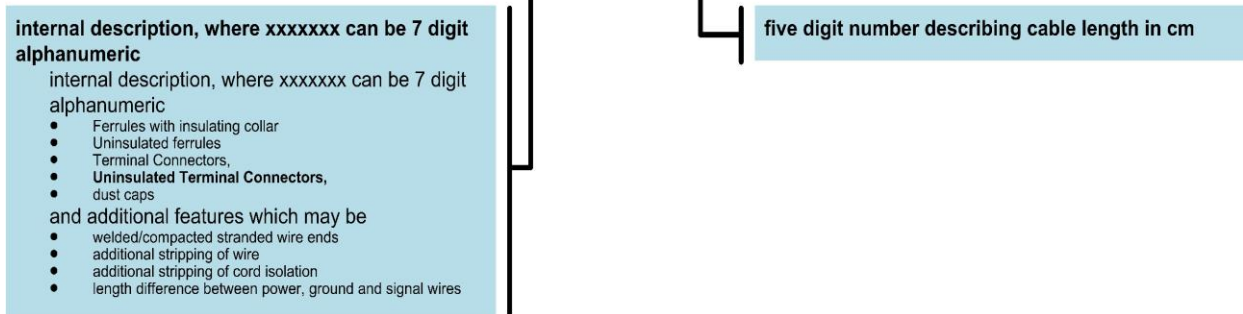
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8 Appendix Nomenclature

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



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



| | | | | | | |
|----------------|------------------------|-------|---|-------------------------------|------------------|------|
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