

Product data

for design verification according to IEC / EN 61439-1

Product description

| | |
|--|---|
| Part No. | 11600 |
| Product name | basic system 160 A |
| Description | 3-pole 600 mm long, touch-safe protected |
| Rated current (IEC) | 160 A |
| rated voltage (IEC) AC | 690 V |
| power dissipation at full load of the item | 28.1 W |
| type number | CB-XL-600-24x16 |

Product features for design verification

Construction

| | | |
|----------|---|---|
| 10.2 | Strength of materials and parts | see following subitems |
| 10.2.2 | Resistance to corrosion | Requirements fulfilled Wöhner products are electrical equipment for which the respective product standard is to be applied. The single parts made out of ferrous metals are protected efficiently against corrosion. |
| 10.2.3 | Properties of insulating materials | see following subitems |
| 10.2.3.1 | Verification of thermal stability of enclosures | Wöhner products do not represent an enclosure. However, the required heat resistance of 70° is fulfilled. |
| 10.2.3.2 | Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | Requirements fulfilled (glow wire test) parts necessary to retain current carrying parts in position: 960°C other parts: 650 °C |
| 10.2.4 | Resistance to ultra-violet (UV) radiation | only applicable for outdoor installations not relevant, since Wöhner components are generally not used as external parts |
| 10.2.5 | Lifting | not relevant, since the whole assembly must be evaluated |
| 10.2.6 | Mechanical impact | not relevant, only applicable for enclosures |
| 10.2.7 | Marking | requirements fulfilled |
| 10.3 | Degree of protection of enclosures | not relevant, only applicable for enclosures |
| 10.4 | Clearances and creepage distances | the requirements are fulfilled for the single Wöhner components |
| 10.5 | Protection against electric shock and integrity of protective circuits | lies within the responsibility of the assembler |
| 10.6 | Incorporation of switching devices and components | lies within the responsibility of the panel builder the requirements are fulfilled for the single Wöhner components, as long as they are used as intended and Wöhner's mounting and operating instructions are respected |
| 10.7 | Internal electrical circuits and connections | lies within the responsibility of the panel builder the requirements are fulfilled for the single Wöhner components, as long as they are used as intended and Wöhner's mounting and operating instructions are respected |

10.8 Terminals for external conductors

lies within the responsibility of the panel builder
the requirements are fulfilled for the single Wöhner components, as long as they are used as intended and Wöhner's mounting and operating instructions are respected

Behaviour

10.9 Dielectric properties

see following subitems

10.9.1 General

lies within the responsibility of the panel builder
the requirements are fulfilled for the single Wöhner components, as long as they are used as intended and Wöhner's mounting and operating instructions are respected

10.9.2 Power-frequency withstand voltage

800 V

10.9.3 Impulse withstand voltage

6 kV

10.9.4 Testing of enclosures made of insulating material

not relevant, since the whole assembly must be evaluated

10.9.5 External conditions of insulating material

not relevant

10.10 Verification of temperature rise

the single Wöhner components meet the temperature rise requirements of the the product standards as long as they are used as intended.
Additionally, evidence must be provided for the switchgear combination or for parts of it. Power dissipations of the Wöhner components can be used here.

10.11 Short-circuit withstand strength

rated peak withstand current I_{pk} max.:
30 kA
rated short-time withstand current I_{cw} (0.1 s) max.:
15 kA

10.12 Electromagnetic compatibility (EMC)

lies within the responsibility of the assembler

10.13 Mechanical operation

lies within the responsibility of the panel builder
the requirements are fulfilled for the single Wöhner components, as long as they are used as intended and Wöhner's mounting and operating instructions are respected

For further information see: <http://www.woehner.de/en/products/11600.html>