

# Product Datasheet

## Characteristic

28912

switch disconnecter, Compact INS160,  
160A, standard version with black  
rotary handle, 3 poles



## Main

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | ComPact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product name                                | ComPacT INS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| product or component type                   | Switch disconnecter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| poles description                           | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Network type                                | DC<br>AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Network frequency                           | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ie] rated operational current              | AC-22A: 160 A AC 50/60 Hz 220/240 V<br>AC-22A: 160 A AC 50/60 Hz 380/415 V<br>AC-22A: 160 A AC 50/60 Hz 440/480 V<br>DC-22A: 160 A DC 125 V 2 poles in series<br>AC-22A: 160 A AC 50/60 Hz 500 V 2 poles in series<br>AC-22A: 160 A AC 50/60 Hz 660/690 V<br>AC-23A: 100 A AC 50/60 Hz 660/690 V<br>AC-23A: 160 A AC 50/60 Hz 220/240 V<br>AC-23A: 160 A AC 50/60 Hz 380/415 V<br>AC-23A: 160 A AC 50/60 Hz 440/480 V<br>AC-23A: 160 A AC 50/60 Hz 500 V<br>DC-22A: 160 A DC 50/60 Hz 125 V 2 poles in series<br>DC-23A: 160 A DC 50/60 Hz 125 V 2 poles in series |
| [Ui] rated insulation voltage               | 750 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current | 160 A at 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Icm] rated short-circuit making capacity   | 154 kA with upstream protection circuit breaker 690 V AC at 50/60 Hz<br>20 kA switch-disconnector alone 690 V AC at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Ue] rated operational voltage              | 125 V DC<br>690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Suitability for isolation                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Contact position indicator                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Visible break                               | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pollution degree                            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Complementary

|               |               |
|---------------|---------------|
| Control type  | Rotary handle |
| handle colour | Black         |
| mounting mode | Fixed         |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mounting support                         | Plate<br>DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Upside connection                        | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| downside connection                      | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum power                            | AC-23: 110 kW at 500/525 V AC 50/60 Hz<br>AC-23: 45 kW at 220/240 V AC 50/60 Hz<br>AC-23: 75 kW at 380/415 V AC 50/60 Hz<br>AC-23: 90 kW at 440 V AC 50/60 Hz<br>AC-23: 90 kW at 660/690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                           |
| Rated duty                               | Uninterrupted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Intermittent duty class                  | Class 120 - 60 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| enclosure dimensions for lthe            | 260 mm x 160 mm x 55 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Icw] rated short-time withstand current | 0.01 kA during 30 s conforming to IEC 60947-3<br>1.23 kA during 20 s conforming to IEC 60947-3<br>3.175 kA during 3 s conforming to IEC 60947-3<br>5.5 kA during 1 s conforming to IEC 60947-3                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical durability                    | 15000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical durability                    | AC-22A: 1500 cycles 220/240 V AC 50/60 Hz<br>AC-22A: 1500 cycles 380/415 V AC 50/60 Hz 2 poles in series<br>AC-22A: 1500 cycles 440 V AC 50/60 Hz<br>AC-22A: 1500 cycles 500 V AC 50/60 Hz<br>AC-23A: 1500 cycles 220/240 V AC 50/60 Hz<br>AC-23A: 1500 cycles 380/415 V AC 50/60 Hz<br>AC-23A: 1500 cycles 440 V AC 50/60 Hz<br>AC-23A: 1500 cycles 500 V AC 50/60 Hz<br>DC-22A: 1500 cycles 125 V DC 50/60 Hz 2 poles in series<br>DC-23A: 1500 cycles 125 V DC 50/60 Hz 2 poles in series<br>AC-22A: 1500 cycles 690 V AC 50/60 Hz<br>AC-23A: 1500 cycles 690 V AC 50/60 Hz 2 poles in series |
| Connection pitch                         | 30 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Height                                   | 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Width                                    | 135 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Depth                                    | 62.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| net weight                               | 0.8 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | IEC 60947-3<br>IEC 60947-1   |
| Product certifications                | CCC<br>KEMA-KEUR             |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to EN 50102  |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -50...85 °C                  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 13.500 cm |
| Package 1 Width              | 11.500 cm |
| Package 1 Length             | 15.500 cm |
| Package 1 Weight             | 1.032 kg  |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 10        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 10.676 kg |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 80        |
| Package 3 Height             | 43.000 cm |
| Package 3 Width              | 80.000 cm |

|                  |            |
|------------------|------------|
| Package 3 Length | 120.000 cm |
| Package 3 Weight | 97.000 kg  |

Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | Free of Substances of Very High Concern above the threshold                                                                 |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Compliant                                                                                                                   |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | X                                                                                                                           |
| RoHS exemption information | Yes                                                                                                                         |
| Environmental Disclosure   | ENVPEP1304025                                                                                                               |
| Circularity Profile        | ENVEOLI1304025                                                                                                              |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |