# Product datasheet

Specifications



## switch disconnector, Compact INS160 , 160 A, standard version with black rotary handle, 4 poles

28913

## Main

| | |
|---|---|
| **Range** | ComPact |
| **Product name** | ComPacT INS |
| **Product or component type** | Switch disconnector |
| **Poles description** | 4P |
| **Network type** | AC<br>DC |
| **Network frequency** | 50/60 Hz |
| **[Ie] rated operational current** | AC-23A: 160 A AC 50/60 Hz 500 V<br>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>AC-22A: 160 A AC 50/60 Hz 500 V<br>AC-22A: 160 A AC 50/60 Hz 660/690 V<br>AC-23A: 160 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>DC-22A: 160 A DC 125 V 2 poles in series<br>DC-23A: 160 A DC 125 V 2 poles in series<br>DC-22A: 160 A DC 250 V 4 poles in series<br>DC-23A: 160 A DC 250 V 4 poles in series |
| **[Ui] rated insulation voltage** | 800 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** | 250 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 |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **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 % |
| **[Icw] rated short-time withstand current** | 1 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<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 250 V DC 4 poles in series<br>DC-23A: 1500 cycles 250 V DC 4 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 |
| **Connection pitch** | 30 mm |
| **Height** | 100 mm |
| **Width** | 135 mm |
| **Depth** | 62.5 mm |
| **Net weight** | 0.9 kg |

## Environment

| | |
|---|---|
| **Standards** | IEC 60947-1<br>IEC 60947-3 |
| **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** | 13.400 cm |
| **Package 1 Width** | 11.000 cm |
| **Package 1 Length** | 15.000 cm |
| **Package 1 Weight** | 1.123 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** | 11.594 kg |
| **Unit Type of Package 3** | P12 |
| **Number of Units in Package 3** | 80 |
| **Package 3 Height** | 44.000 cm |
| **Package 3 Width** | 80.000 cm |
| **Package 3 Length** | 120.000 cm |
| **Package 3 Weight** | 106.000 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **242 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **6 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.1 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **234 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **2 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards** |
| EU RoHS Directive | **Compliant** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **89** |
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |