

Product data sheet

Specifications



switch disconnector, Compact
INV100, visible break, 100A, with
red rotary handle and yellow front, 3
poles

31180

Main

| | |
|---|---|
| Range | ComPact |
| Product Name | Compact INV |
| Product Or Component Type | Switch disconnector |
| Poles Description | 3P |
| Network Type | DC AC |
| Network Frequency | 50/60 Hz |
| Handle Colour | Red |
| [Ie] Rated Operational Current | AC-21A: 100 A AC 50/60 Hz 220/240 V AC-21A: 100 A AC 50/60 Hz 380/415 V AC-21A: 100 A AC 50/60 Hz 440/480 V AC-21A: 100 A AC 50/60 Hz 480 V NEMA AC-21A: 100 A AC 50/60 Hz 500/525 V AC-21A: 100 A AC 50/60 Hz 660/690 V AC-22A: 100 A AC 50/60 Hz 220/240 V AC-22A: 100 A AC 50/60 Hz 380/415 V AC-22A: 100 A AC 50/60 Hz 440/480 V AC-22A: 100 A AC 50/60 Hz 480 V NEMA AC-22A: 100 A AC 50/60 Hz 500/525 V AC-22A: 100 A AC 50/60 Hz 660/690 V AC-23A: 100 A AC 50/60 Hz 220/240 V AC-23A: 100 A AC 50/60 Hz 380/415 V AC-23A: 100 A AC 50/60 Hz 440/480 V AC-23A: 100 A AC 50/60 Hz 480 V NEMA AC-23A: 100 A AC 50/60 Hz 500/525 V AC-23A: 100 A AC 50/60 Hz 660/690 V DC-21A: 100 A DC 125 V 2 poles in series DC-22A: 100 A DC 125 V 2 poles in series DC-23B: 100 A DC 125 V 2 poles in series DC-21A: 100 A DC 250 V 4 poles in series DC-22A: 100 A DC 250 V 4 poles in series DC-23B: 100 A DC 250 V 4 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 | 100 A at 60 °C |
| [Icm] Rated Short-Circuit Making Capacity | 30 kA switch-disconnector alone 690 V AC at 50/60 Hz 330 kA with upstream protection circuit breaker 690 V AC at 50/60 Hz |
| [Ue] Rated Operational Voltage | 250 V DC 690 V AC 50/60 Hz |
| Suitability For Isolation | Yes |
| Contact Position Indicator | Yes |
| Visible Break | Yes |
| Pollution Degree | 3 |

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

Complementary

| | |
|--|--|
| Control Type | Rotary handle |
| Mounting Mode | Fixed |
| Mounting Support | Rail Plate |
| Upside Connection | Front |
| Downside Connection | Front |
| Maximum Power | AC-23: 22 kW at 220/240 V AC 50/60 Hz AC-23: 22 kW at 230 V AC 50/60 Hz (NEMA) AC-23: 45 kW at 380/415 V AC 50/60 Hz AC-23: 55 kW at 440 V AC 50/60 Hz AC-23: 55 kW at 480 V AC 50/60 Hz (NEMA) AC-23: 55 kW at 500/525 V AC 50/60 Hz AC-23: 55 kW at 660/690 V AC 50/60 Hz |
| Rated Duty | Uninterrupted |
| [Icw] Rated Short-Time Withstand Current | 1.8 kA during 30 s conforming to IEC 60947-3 2.2 kA during 20 s conforming to IEC 60947-3 4.9 kA during 3 s conforming to IEC 60947-3 8.5 kA during 1 s conforming to IEC 60947-3 |
| Mechanical Durability | 15000 cycles |
| Electrical Durability | AC-22A: 1500 cycles 440 V AC 50/60 Hz AC-22A: 1500 cycles 500 V AC 50/60 Hz AC-22A: 1500 cycles 690 V AC 50/60 Hz AC-23A: 1500 cycles 440 V AC 50/60 Hz AC-23A: 1500 cycles 500 V AC 50/60 Hz AC-23A: 1500 cycles 690 V AC 50/60 Hz DC-22A: 1500 cycles 125 V DC DC-23A: 1500 cycles 125 V DC |
| Connection Pitch | 45 mm |
| Height | 136 mm |
| Width | 140 mm |
| Depth | 96 mm |
| Net Weight | 2 kg |

Environment

| | |
|---------------------------------------|------------------------------|
| Standards | IEC 60947-3 IEC 60947-1 |
| Product Certifications | CCC 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 | 13.7 cm |
| Package 1 Width | 17 cm |
| Package 1 Length | 16.2 cm |

| | |
|------------------------------|----------|
| Package 1 Weight | 2.295 kg |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 2 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 5.031 kg |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

| | |
|--------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |