



## Main

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| 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 : 1250 A AC 50/60 Hz 220/240 V<br>AC-23A : 1250 A AC 50/60 Hz 380/415 V<br>AC-23A : 1250 A AC 50/60 Hz 440/480 V<br>AC-23A : 1250 A AC 50/60 Hz 500/525 V<br>AC-23A : 1250 A AC 50/60 Hz 660/690 V<br>AC-21A : 1250 A AC 50/60 Hz 440/480 V<br>AC-21B : 1600 A AC 50/60 Hz 380/415 V<br>AC-22B : 1600 A AC 50/60 Hz 220/240 V<br>AC-21A : 1450 A AC 50/60 Hz 380/415 V<br>DC-21A : 1600 A DC 250 V 4 poles in series<br>AC-22B : 1600 A AC 50/60 Hz 440/480 V<br>AC-22A : 1250 A AC 50/60 Hz 480 V NEMA<br>DC-23A : 1600 A DC 125 V 2 poles in series<br>AC-21B : 1600 A AC 50/60 Hz 500/525 V<br>AC-21A : 1250 A AC 50/60 Hz 660/690 V<br>AC-22B : 1600 A AC 50/60 Hz 660/690 V<br>AC-22A : 1450 A AC 50/60 Hz 220/240 V<br>AC-22B : 1600 A AC 50/60 Hz 380/415 V<br>AC-22A : 1250 A AC 50/60 Hz 440/480 V<br>AC-21B : 1600 A AC 50/60 Hz 220/240 V<br>DC-22A : 1600 A DC 125 V 2 poles in series<br>DC-21A : 1600 A DC 125 V 2 poles in series<br>AC-21B : 1600 A AC 50/60 Hz 440/480 V<br>AC-23A : 1250 A AC 50/60 Hz 480 V NEMA<br>AC-21A : 1250 A AC 50/60 Hz 480 V NEMA<br>AC-22B : 1600 A AC 50/60 Hz 480 V NEMA<br>AC-22A : 1250 A AC 50/60 Hz 500/525 V<br>AC-22A : 1250 A AC 50/60 Hz 660/690 V<br>DC-22A : 1600 A DC 250 V 4 poles in series<br>AC-21B : 1600 A AC 50/60 Hz 480 V NEMA<br>AC-21A : 1250 A AC 50/60 Hz 500/525 V<br>AC-22B : 1600 A AC 50/60 Hz 500/525 V<br>AC-21A : 1450 A AC 50/60 Hz 220/240 V<br>AC-21B : 1600 A AC 50/60 Hz 660/690 V<br>AC-22A : 1450 A AC 50/60 Hz 380/415 V<br>DC-23A : 1600 A DC 250 V 4 poles in series |
| [Ui] rated insulation voltage               | 1000 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage      | 12 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current | 1600 A ( 60 °C )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Icm] rated short-circuit making capacity   | 75 kA 690 V AC 50/60 Hz switch-disconnector alone<br>75 kA 690 V AC 50/60 Hz with upstream protection circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ue] rated operational voltage              | 250 V DC<br>690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Suitability for isolation                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Contact position indicator                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Visible break                               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pollution degree                            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Complementary

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|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                             | Direct front rotary handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Handle colour                            | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting mode                            | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting support                         | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Upside connection                        | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Downside connection                      | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum power                            | AC-23 : 400 kW 220/240 V AC 50/60 Hz<br>AC-23 : 900 kW 500/525 V AC 50/60 Hz<br>AC-23 : 710 kW 380/400 V AC 50/60 Hz<br>AC-23 : 800 kW 415 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Rated duty                               | Uninterrupted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Intermittent duty class                  | Class 120 - 60 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Icw] rated short-time withstand current | 10 kA ( 20 s ) conforming to IEC 60947-3<br>20 kA ( 3 s ) conforming to IEC 60947-3<br>35 kA ( 1 s ) conforming to IEC 60947-3<br>42 kA ( 0.8 s ) conforming to IEC 60947-3<br>50 kA ( 0.5 s ) conforming to IEC 60947-3<br>8 kA ( 30 s ) conforming to IEC 60947-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mechanical durability                    | 3000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Electrical durability                    | DC-21A : 500 cycles 250 V DC 4 poles in series<br>AC-21A : 500 cycles 220/240 V AC 50/60 Hz<br>AC-21A : 500 cycles 380/415 V AC 50/60 Hz<br>AC-21A : 500 cycles 440/480 V AC 50/60 Hz<br>AC-21A : 500 cycles 500/525 V AC 50/60 Hz<br>AC-21A : 500 cycles 660/690 V AC 50/60 Hz<br>AC-21B : 100 cycles 220/240 V AC 50/60 Hz<br>AC-21B : 100 cycles 380/415 V AC 50/60 Hz<br>AC-21B : 100 cycles 440/480 V AC 50/60 Hz<br>AC-21B : 100 cycles 500/525 V AC 50/60 Hz<br>AC-21B : 100 cycles 660/690 V AC 50/60 Hz<br>AC-22A : 500 cycles 220/240 V AC 50/60 Hz<br>AC-22A : 500 cycles 380/415 V AC 50/60 Hz<br>AC-22A : 500 cycles 440/480 V AC 50/60 Hz<br>AC-22A : 500 cycles 500/525 V AC 50/60 Hz<br>AC-22A : 500 cycles 660/690 V AC 50/60 Hz<br>AC-22B : 100 cycles 220/240 V AC 50/60 Hz<br>AC-22B : 100 cycles 380/415 V AC 50/60 Hz<br>AC-22B : 100 cycles 440/480 V AC 50/60 Hz<br>AC-22B : 100 cycles 500/525 V AC 50/60 Hz<br>AC-22B : 100 cycles 660/690 V AC 50/60 Hz<br>AC-23B : 500 cycles 220/240 V AC 50/60 Hz<br>AC-23B : 500 cycles 380/415 V AC 50/60 Hz<br>AC-23B : 500 cycles 440/480 V AC 50/60 Hz<br>AC-23B : 500 cycles 500/525 V AC 50/60 Hz<br>AC-23B : 500 cycles 660/690 V AC 50/60 Hz<br>DC-21A : 500 cycles 125 V DC 2 poles in series<br>DC-22A : 500 cycles 125 V DC 2 poles in series<br>DC-22A : 500 cycles 250 V DC 4 poles in series<br>DC-23A : 500 cycles 125 V DC 2 poles in series<br>DC-23A : 500 cycles 250 V DC 4 poles in series |
| Connection pitch                         | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Height                                   | 300 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Width                                    | 340 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Depth                                    | 146.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product weight                           | 18 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

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|---------------------------------------|------------------------------|
| standards                             | IEC 60947-1<br>IEC 60947-3   |
| product certifications                | 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                  |