



## Main

|                                           |                                                                                                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Range of product                          | INS320...630                                                                                                           |
| Range                                     | Compact                                                                                                                |
| Device short name                         | INS320                                                                                                                 |
| Product or component type                 | Changeover switch                                                                                                      |
| Device application                        | Change source of supply                                                                                                |
| Range compatibility                       | Compact - Compact INS INS320 switch disconnecter                                                                       |
| Poles description                         | 4P                                                                                                                     |
| Network type                              | AC<br>DC                                                                                                               |
| Network frequency                         | 50/60 Hz                                                                                                               |
| Mounting mode                             | Fixed                                                                                                                  |
| Upside connection                         | Front                                                                                                                  |
| Downside connection                       | Front                                                                                                                  |
| Suitability for isolation                 | Yes                                                                                                                    |
| Contact position indicator                | Yes                                                                                                                    |
| [Icm] rated short-circuit making capacity | 330 kA 690 V AC 50/60 Hz with upstream protection circuit breaker<br>50 kA 690 V AC 50/60 Hz switch-disconnector alone |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transfer switch class                       | PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Number of contact position                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Control type                                | Direct front rotary handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Locking options description                 | Padlocking in OFF position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Ie] rated operational current              | DC-23A : 320 A DC 125 V 2 poles in series<br>AC-22A : 320 A AC 50/60 Hz 380/415 V<br>AC-23A : 320 A AC 50/60 Hz 500/525 V<br>AC-23A : 320 A AC 50/60 Hz 480 V NEMA<br>AC-22A : 320 A AC 50/60 Hz 480 V NEMA<br>AC-23A : 320 A AC 50/60 Hz 220/240 V<br>AC-22A : 320 A AC 50/60 Hz 220/240 V<br>DC-22A : 320 A DC 250 V 4 poles in series<br>AC-23A : 320 A AC 50/60 Hz 660/690 V<br>AC-22A : 320 A AC 50/60 Hz 660/690 V<br>AC-22A : 320 A AC 50/60 Hz 440/480 V<br>AC-23A : 320 A AC 50/60 Hz 380/415 V<br>AC-23A : 320 A AC 50/60 Hz 440/480 V<br>AC-22A : 320 A AC 50/60 Hz 500/525 V<br>DC-22A : 320 A DC 125 V 2 poles in series<br>DC-23A : 320 A DC 250 V 4 poles in series |
| [Ith] conventional free air thermal current | 320 A ( 60 °C )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rated duty                                  | Uninterrupted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Intermittent duty class                     | Class 120 - 60 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ui] rated insulation voltage               | 750 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ue] rated operational voltage              | 250 V DC conforming to IEC 60947-3<br>690 V AC 50/60 Hz conforming to IEC 60947-3<br>690 V AC 50/60 Hz conforming to IEC 60947-3<br>750 V AC 50/60 Hz conforming to IEC 60947-3<br>750 V DC conforming to IEC 60947-3                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mechanical interlocking                     | With mechanical interlocking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                          |                                                                                                                                                                                                                                                                                                             |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical durability                    | 10000 cycles                                                                                                                                                                                                                                                                                                |
| Electrical durability                    | AC-22A : 1500 cycles 440 V AC 50/60 Hz<br>AC-22A : 1500 cycles 500 V AC 50/60 Hz<br>AC-22A : 1500 cycles 690 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>AC-23A : 1500 cycles 690 V AC 50/60 Hz<br>DC-23A : 1000 cycles 250 V DC 4 poles in series |
| Connection pitch                         | 45 mm                                                                                                                                                                                                                                                                                                       |
| [Icw] rated short-time withstand current | 11.5 kA ( 3 s ) conforming to IEC 60947-3<br>20 kA ( 1 s ) conforming to IEC 60947-3<br>4 kA ( 30 s ) conforming to IEC 60947-3<br>4.9 kA ( 20 s ) conforming to IEC 60947-3                                                                                                                                |
| Height                                   | 205 mm                                                                                                                                                                                                                                                                                                      |
| Width                                    | 395 mm                                                                                                                                                                                                                                                                                                      |
| Depth                                    | 155 mm                                                                                                                                                                                                                                                                                                      |
| Product weight                           | 13.5 kg                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                |
|---------------------------------------|--------------------------------|
| standards                             | IEC 60947-1<br>IEC 60947-3     |
| product certifications                | CCC<br>KEMA-KEUR               |
| electrical shock protection class     | Class II                       |
| IP degree of protection               | IP40 conforming to IEC 60947-3 |
| pollution degree                      | 3                              |
| ambient air temperature for operation | -25...70 °C                    |
| ambient air temperature for storage   | -50...85 °C                    |