

# Changeover Switch 1-0-2, modular, 4-pole 63A

Version changeover switch, Rated current 63A, Poles 4, IP Rating IP40 (front), IP00 (terminals), Neutral conductor contacts Neutral conductor early-make, late-break design (closes before and opens after the phase conductors to prevent voltage displacement)



## Technical Data

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Version                                    | changeover switch             |
| Rated current (A)                          | 63                            |
| Poles                                      | 4                             |
| Mounting                                   | DIN-rail                      |
| Standard                                   | IEC 60947, EN 60947, VDE 0660 |
| Rated insulation voltage [Ui] (V)          | 690                           |
| Rated impulse withstand voltage [Uimp] (V) | 6000                          |
| Rated short-time withstand current Icw     | 1000                          |
| Rated conditional short-circuit-current    | 10kA @ 440V / 6kA @ 690V      |
| Short-circuit protection maximum fuse      | 63                            |
| Frequency (Hz)                             | 50/60                         |

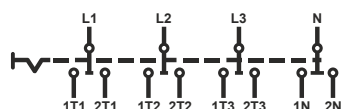
## Technical Data - continued

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Current                                                       | AC-22A - 690V - 63A<br>AC-3 - 690V - 17A<br>AC-3 - 230V - 38A<br>AC-23A - 400V - 41A<br>AC-23A - 690V - 21A<br>AC-21A - 690V - 63A<br>AC-3 - 400V - 36A<br>AC-23A - 230V - 38A                                                                                                                                                                                                                                                                                                                                                                                        |
| Switching Capacity                                                      | AC-3 - 690V - 15kW<br>AC-23A - 230V - 11kW<br>AC-23A - 400V - 22kW<br>AC-23A - 690V - 18.5kW<br>AC-3 - 230V - 11kW<br>AC-3 - 400V - 18.5kW                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>According to UL 508 / CSA</b>                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Connection type                                                         | UL/CSA - AWG 14-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operating voltage AC (V)                                                | 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Thermal rated continuous current (A)                                    | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Active Power                                                            | 3x240VAC - 15Hp<br>3x120VAC - 5Hp<br>3x480VAC - 25Hp<br>1x240VAC - 10Hp<br>3x600VAC - 30Hp<br>1x120VAC - 3Hp                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Connections</b>                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Conventional thermal current I <sub>th</sub> (A)                        | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tightening torque (Nm)                                                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Connection cross-section, multi-wire (mm <sup>2</sup> )                 | 2,5-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connection cross section, single wire (mm <sup>2</sup> )                | 2,5-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connection cross-section, flexible wire with ferrule (mm <sup>2</sup> ) | 2,5-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Retrofit contacts</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Auxiliary contacts                                                      | Maximum 2x INSHK001 -- permitted. 1x can be snapped onto the left side of the main contact and 1x onto the right side of the main contact. Maximum configuration 2x NC contacts / 2x NO contacts (1x NC contact / 1x NO contact per switching position). ATTENTION! Switching behavior is not the same! In switching position "1", only the auxiliary contacts that have been snapped onto the corresponding main contact will switch. In switching position "2", only the auxiliary contacts that have been snapped onto the corresponding main contact will switch. |
| Neutral conductor contacts                                              | Neutral conductor early-make, late-break design (closes before and opens after the phase conductors to prevent voltage displacement)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating temperature                                                   | -25°C to +55°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mechanical durability                                                   | 100000 switching cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

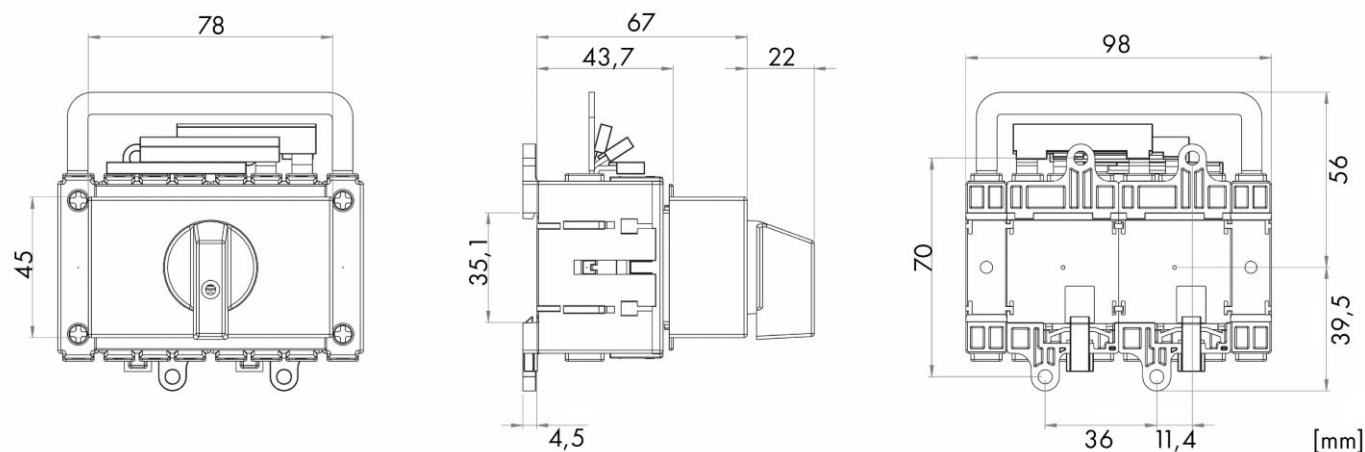
## Technical Data - continued

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| Power loss per pole (W)           | 3,60                                                               |
| Protection against direct contact | finger-proof and back-of-hand-proof according to VDE 0106 Part 100 |
| IP Rating                         | IP40 (front), IP00 (terminals)                                     |
| Lockable                          | No                                                                 |
| Net length (mm)                   | 89,40                                                              |
| Net width (mm)                    | 78,40                                                              |
| Net height (mm)                   | 45,00                                                              |
| Min. ambient temperature (°C)     | -25                                                                |
| Max. ambient temperature (°C)     | 55                                                                 |

## Schaltbild INSR3463--

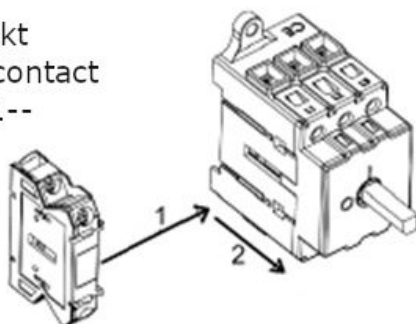


## Maßbild INSR3463--



## Montageanleitung INSHK Hilfskontakte

Hilfskontakt  
Auxiliary contact  
INSHK001--



## Montageanleitung INSR Hutschienenmontage Schalter



## Article Table

| DESCRIPTION                                                                                                                                                                                                                                                                                                      | Order No. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Changeover Switch 1-0-2, modular, 4-pole 63A<br>Version changeover switch, Rated current 63A, Poles 4, IP Rating IP40 (front), IP00 (terminals), Neutral conductor contacts Neutral conductor early-make, late-break design (closes before and opens after the phase conductors to prevent voltage displacement) | INSR3463  |
| <b>Optional Accessories</b>                                                                                                                                                                                                                                                                                      |           |
| Auxiliary Contact 1NO/1NC for INSR, INSP and INSA<br>Nicht für INSE zu verwenden, Version accessories, IP Rating IP20 (terminals)                                                                                                                                                                                | INSHK001  |