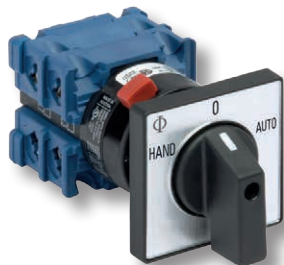


According to IEC 60947-3, EN 60947-3, VDE 0660 part 107



| Rated Thermal Current $I_U/I_{th}/I_{the}$               |                                                                                     |                    |                                                                   |    | A                             | 25  |
|----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------|----|-------------------------------|-----|
| Rated Insulation Voltage $U_i$ <sup>1</sup>              |                                                                                     |                    |                                                                   |    | V                             | 690 |
| Rated Impulse Withstand Voltage $U_{imp}$                |                                                                                     |                    |                                                                   |    | kV                            | 6   |
| Rated Operational Current $I_e$                          |                                                                                     |                    |                                                                   |    |                               |     |
| AC-21A                                                   | Switching of resistive loads, including moderate overloads                          |                    |                                                                   |    | A                             | 25  |
| AC-22A                                                   | Switching of combined resistive or low inductive loads including moderate overloads |                    | 220 V–440 V<br>500 V<br>660 V–690 V                               | A  | 25<br>25<br>25                |     |
| AC-15                                                    | Switching of control devices, contactors, valves etc.                               |                    | 110 V<br>220 V–240 V<br>380 V–440 V                               | A  | 8<br>8<br>5                   |     |
| Rated Utilization Category                               |                                                                                     |                    |                                                                   |    |                               |     |
| AC-2                                                     | Slip ring motor starting, reversing and plugging, star-delta starting               | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V                | kW | 5,5<br>11<br>15<br>13         |     |
| AC-3                                                     | Direct-on-line starting, star-delta starting                                        | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V                | kW | 4<br>7,5<br>7,5<br>7,5        |     |
|                                                          |                                                                                     | 1 phase,<br>2 pole | 110 V–120 V<br>220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW | 1,5<br>3<br>3,7<br>4<br>3,7   |     |
| AC-4                                                     | Direct-on-line starting, reversing, plugging and inching                            | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V                | kW | 1,5<br>3<br>3<br>3            |     |
|                                                          |                                                                                     | 1 phase,<br>2 pole | 110 V–120 V<br>220 V–240 V<br>380 V–440 V                         | kW | 0,45<br>1,1<br>2,2            |     |
| AC-23A                                                   | Frequent switching of motors or other high inductive loads                          | 3 phase,<br>3 pole | 220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V                | kW | 5,5<br>11<br>11<br>11         |     |
|                                                          |                                                                                     | 1 phase,<br>2 pole | 110 V–120 V<br>220 V–240 V<br>380 V–440 V<br>500 V<br>660 V–690 V | kW | 1,5<br>3<br>5,5<br>5,5<br>5,5 |     |
| Short Circuit Protection                                 |                                                                                     |                    |                                                                   |    |                               |     |
| Max. fuse size                                           |                                                                                     | gG-characteristic  |                                                                   |    | A                             | 35  |
| Rated short-time withstand current                       |                                                                                     | (1 s-current)      |                                                                   |    | A                             | 250 |
| Max. Permissible Wire Gage - copper wires only           |                                                                                     |                    |                                                                   |    |                               | 2 x |
| Single-core or stranded wire                             |                                                                                     |                    |                                                                   |    | mm <sup>2</sup>               | 4   |
| Flexible wire                                            |                                                                                     |                    |                                                                   |    | mm <sup>2</sup>               | 2,5 |
| Flexible wire with sleeving in accordance with DIN 46228 |                                                                                     |                    |                                                                   |    | mm <sup>2</sup>               | 2,5 |

<sup>1</sup> Valid for lines with grounded common neutral termination, overvoltage category III, Other values on request.

## Miscellaneous

|                                   |                                                                                |                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Minimum Voltage:                  | on request                                                                     |                                                                                              |
| Power loss per contact at $I_U$ : | 2,3 W                                                                          |                                                                                              |
| Resistance to vibration:          | on request                                                                     |                                                                                              |
| Resistance to shock:              | min. 5 g, 30 ms                                                                |                                                                                              |
| Ambient Temperature of Stages :   | open at 100 % $I_U/I_{th}$<br>enclosed at 100 % $I_{the}$                      | 55 °C during 24 hours with peaks up to 60 °C<br>35 °C during 24 hours with peaks up to 40 °C |
| Storage temperature:              | -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible) |                                                                                              |

## Approvals and Standards

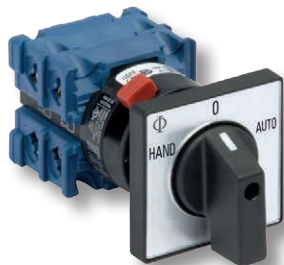
IEC 60947  
EN 60947

cULUS

SAB

CCC  
GB14048.3Lloyds  
RegisterPG  
CH01

## USA / Canada



| Rated Thermal Current $I_U/I_{th}/I_{the}$           |                                            |               |       |     |      |
|------------------------------------------------------|--------------------------------------------|---------------|-------|-----|------|
|                                                      |                                            |               | A     |     | 25   |
| Rated Insulation Voltage $U_i$                       |                                            |               |       |     |      |
|                                                      |                                            |               | V     |     | 600  |
| Rated Operational Current $I_e$                      |                                            |               |       |     |      |
| Pilot Duty:                                          |                                            |               | Heavy | VAC | A600 |
| Ampere Rating                                        | Resistive or low inductive loads           |               |       | A   | 25   |
| Max. Permissible Wire Gage - copper wires only       |                                            |               |       |     |      |
|                                                      |                                            |               |       |     | 2 x  |
|                                                      | Single-core or stranded wire               |               |       | AWG | 10   |
|                                                      | Flexible wire: AWG wire (without sleeving) |               |       | AWG | 12   |
| Ratings                                              |                                            |               |       |     |      |
| Standard motor load,<br>DOL-Rating<br>(similar AC-3) | 3 phase<br>3 pole                          | 110 V – 120 V | HP    |     | 2    |
|                                                      |                                            | 220 V – 240 V |       |     | 5    |
|                                                      |                                            | 440 V – 480 V |       |     | 10   |
|                                                      |                                            | 550 V – 600 V |       |     | 10   |
|                                                      | 1 phase<br>2 pole                          | 110 V – 120 V | HP    |     | 1    |
|                                                      |                                            | 220 V – 240 V |       |     | 2    |
|                                                      |                                            | 277 V         |       |     | 3    |
|                                                      |                                            | 440 V – 480 V |       |     | 5    |
|                                                      |                                            | 550 V – 600 V |       |     | 5    |
| Heavy motor<br>Load-reversing<br>(similar AC-4)      | 3 phase<br>3 pole                          | 110 V – 120 V | HP    |     | 1    |
|                                                      |                                            | 220 V – 240 V |       |     | 2    |
|                                                      |                                            | 440 V – 600 V |       |     | 5    |
|                                                      | 1 phase<br>2 pole                          | 110 V – 120 V | HP    |     | 0,33 |
|                                                      |                                            | 220 V – 240 V |       |     | 0,75 |
|                                                      |                                            | 277 V         |       |     | 1    |
|                                                      |                                            | 440 V – 600 V |       |     | 2    |

## Miscellaneous

|                                   |                                                                                |                                              |
|-----------------------------------|--------------------------------------------------------------------------------|----------------------------------------------|
| Minimum Voltage:                  | on request                                                                     |                                              |
| Power loss per contact at $I_U$ : | 2,3 W                                                                          |                                              |
| Resistance to vibration:          | on request                                                                     |                                              |
| Resistance to shock:              | min. 5 g, 30 ms                                                                |                                              |
| Ambient Temperature of Stages :   | open at 100 % $I_U/I_{th}$                                                     | 55 °C during 24 hours with peaks up to 60 °C |
|                                   | enclosed at 100 % $I_{the}$                                                    | 35 °C during 24 hours with peaks up to 40 °C |
| Storage temperature:              | -40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible) |                                              |

## Approvals and Standards

IEC 60947  
EN 60947