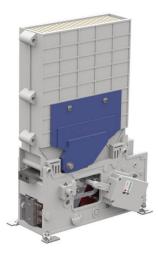
# ISCBS

### Standard Family Code IR 3000 F SERIES H



|         | Family Code      |                |                |  |  |
|---------|------------------|----------------|----------------|--|--|
| Voltage | Holding System   | Thermal        | Current        |  |  |
| voitage | riolaling system | 1500 A         | 3000 A         |  |  |
| 900 V   | Holding Coil     | IR 3015 FC 09H | IR 3030 FC 09H |  |  |
| 900 V   | Permanent Magnet | IR 3015 FP 09H | IR 3030 FP 09H |  |  |
| 1800 V  | Holding Coil     | IR 3015 FC 18H | IR 3030 FC 18H |  |  |
| 1000 V  | Permanent Magnet | IR 3015 FP 18H | IR 3030 FP 18H |  |  |

| Туре                            | IR3000 F                             |
|---------------------------------|--------------------------------------|
| Number of Poles                 | 1 NO                                 |
| Mounting Position               | Vertical                             |
| Control Voltage Rating Uc [Vdc] | 24 - 36 - 48 - 72 - 110 <sup>1</sup> |
| Auxiliary Contact Blocks        | 5 N.O. + 6 N.C.                      |
| Block Type                      | Reed                                 |
| Arc chute Material              | Ceramic                              |
| Main Contacts tips Material     | AgSnO <sub>2</sub>                   |
| Arcing Contacts tips Material   | AgW                                  |
| Electric Diagram HC             | 42870370B                            |
| Electric Diagram PM             | 42870579B                            |
| Layout Drawing HC               | 42870647C                            |

<sup>&</sup>lt;sup>1</sup> To be specified in order phase.

#### Description

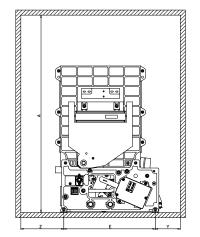
DC single pole, magnetic blowout, trip free, air circuit breaker. The closing mechanism is motor-operated independent type while the holding mechanism is magnetic type, provided with holding coil or permanent magnet. The breaker is equipped with a direct acting overcurrent trip device, which may be either unidirectional or bidirectional. Reference standard IEC 61992.

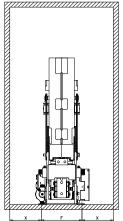
| Electrical Characteristics  | 09Н       | 18H               |  |
|---|-----------|-------------------|--|
| Rated Operational Voltage U <sub>Ne</sub> [V <sub>dc</sub> ] <sup>1</sup> | 900       | 1800              |  |
| Max Operational Voltage [Vdc]   | 1000      | 2000              |  |
| Rated Insulation Voltage [Vdc]  | 2300      | 2300              |  |
| Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>            | 1500 / 30 | 000 <sup>1</sup>  |  |
| Breaking Capacity [kA/ms]   |           |                   |  |
| Rated Short Cicuit  | 70 / 63   | 50 / 63           |  |
| Duty F: Maximum Fault   | 70 / 0    | 50 / 0            |  |
| Duty E: Maximum Energy  | 35 / 31.5 | 32.5 / 31.5       |  |
| Duty D: Distant Fault   | 6 / 63    | 6 / 63            |  |
| Peak arc voltage x U№ [Ûarc]  | up to 4 x | ( U <sub>Ne</sub> |  |
| Standard direct acting trip device [kA] <sup>1</sup>                      |           |                   |  |
| Setting Range 1   | 1 ÷ 1.    | 8                 |  |
| Setting Range 2   | 1.5 ÷ 2   | 2.7               |  |
| Setting Range 3   | 2.2 ÷ 4   |                   |  |
| Setting Range 4   | 3.3 ÷     | 6                 |  |
| Blow Out Circuit Type   | Coil      |                   |  |
| 2 Device cabled according IEC 60947                                       |           |                   |  |

 $<sup>^{2}</sup>$  Device cabled according IEC 60947

| Minimum clearances [mm] from <sup>3</sup> :  |               |      |     |     |  |     |     |     |
|--|---------------|------|-----|-----|--|-----|-----|-----|
| Rated Operational Voltage [Vdc] A4 E F X Y Z |               |      |     | Z   |  |     |     |     |
| 1800   | Metal Parts   | 1021 | 450 | 200 |  | 155 | 125 | 211 |
| 1000   | Plastic Parts | 921  | 430 | 200 |  | 105 | 75  | 161 |

<sup>&</sup>lt;sup>3</sup> Reduced distances should be approved by M.S.







 $<sup>^4\</sup>text{These}$  quotes are referred to a 50 % surface opening grid.

# ISCBS

### Standard Family Code IR 3000 SERIES VV





| Family Code |                        |                |                |  |
|-------------|------------------------|----------------|----------------|--|
| Voltage     | Holding System Thermal |                | l Current      |  |
| voitage     | Holding System         | 1500 A         | 3000 A         |  |
| 900 V       |                        | IR 3015 VV 09L | IR 3030 VV 09L |  |
| 300 V       | Holding Coil           | IR 3015 VV 09M | IR 3030 VV 09M |  |
| 1800 V      |                        | IR 3015 VV 18M | IR 3030 VV 18M |  |

| Type                            | IR3000 VV                            |
|---------------------------------|--------------------------------------|
| Number of Poles                 | 1 NO                                 |
| Mounting Position               | Vertical                             |
| Control Voltage Rating Uc [Vdc] | 24 - 36 - 48 - 72 - 110 <sup>1</sup> |
| Auxiliary Contact Blocks        | 5 N.O. + 6 N.C.                      |
| Block Type                      | Reed                                 |
| Arc chute Material              | Ceramic                              |
| Main Contacts tips Material     | AgSnO <sub>2</sub>                   |
| Arcing Contacts tips Material   | AgW                                  |
| Electric Diagram HC             | 42870370B                            |
| Layout Drawing HC               | 42870555C                            |

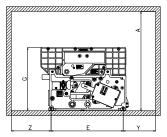
IR 3000 VV Medium Power

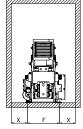
### Description

DC single pole, magnetic blowout, trip free, air circuit breaker. The closing mechanism is motor-operated independent type while the holding mechanism is magnetic type, provided with holding coil. The breaker is equipped with a direct acting over-current trip device, which may be either unidirectional or bi-directional. Reference standard IEC 60077.

| Electrical Characteristics  | 09L      | 09M                       | 18M      |
|---|----------|---------------------------|----------|
| Rated Operational Voltage [V <sub>dc</sub> ] <sup>1</sup>               | 900      | 900                       | 1800     |
| Max Operational Voltage [Vdc]   | 1000     | 1000                      | 2000     |
| Rated Insulation Voltage [U <sub>Nm</sub> ]                             | 2300     | 2300                      | 2300     |
| Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup>          |          | 1500 / 3000 <sup>1</sup>  |          |
| Rated Short Cicuit Making and Breaking Capacity / Time constant [kA/ms] |          |                           |          |
| $\tau_1$  | 30 / 0   | 50 / 0                    | 30 / 0   |
| $\tau_2$  | 30 / 15  | 32.5 / 15                 | 30 / 15  |
| τ <sub>3</sub>  | 30 / 50  | 30 / 50                   | 30 / 40  |
| $\tau_4$  | 30 / 150 | 30 / 150                  | 30 / 100 |
| Rated Duty Cycle  |          | 0 - 20s - CO - 60s - C0   |          |
| Peak arc voltage x U <sub>Nm</sub> [Û <sub>arc</sub> ]                  |          | up to 3 x U <sub>Nm</sub> |          |
| Standard direct acting trip device [kA] <sup>1</sup>                    |          |                           |          |
| Setting Range 1   |          | 1 ÷ 1.8                   |          |
| Setting Range 2   |          | 1.5 ÷ 2.7                 |          |
| Setting Range 3   |          | 2.2 ÷ 4                   |          |
| Setting Range 4   |          | 3.3 ÷ 6                   |          |
| Blow Out Circuit Type   |          | Coil                      |          |
| 25 1 11 1 15 15 15 15 15  |          |                           |          |

<sup>&</sup>lt;sup>2</sup> Device cabled according IEC 60947





IR 3000 VV Low Power

| Minimum clearances [mm] from <sup>3</sup> : |                             |                |       |     |     |     |                |                |     |
|---|-----------------------------|----------------|-------|-----|-----|-----|----------------|----------------|-----|
|   |                             |                |       |     |     |     |                |                |     |
| Rate  | d Operational Voltage [Vac] | A <sup>4</sup> | E     | F   | G   | Χ   | Υ <sup>4</sup> | Z <sup>4</sup> |     |
| 900   | Metal Parts                 | 620            |       |     | 396 | 100 | 202            | 248            |     |
| 900   | Plastic Parts               | 520            | 450   | 200 | 390 | 50  | 150            | 198            |     |
| 1800  | Metal Parts                 | 700            | 450 2 | 430 | 200 | 476 | 100            | 202            | 248 |
| 1000  | Plastic Parts               | 600            |       |     | 470 | 50  | 150            | 198            |     |

 $<sup>^{\</sup>rm 3}$  Reduced distances should be approved by M.S.



<sup>&</sup>lt;sup>1</sup> To be specified in order phase.

 $<sup>^4\</sup>text{These}$  quotes are referred to a 50 % surface opening grid.

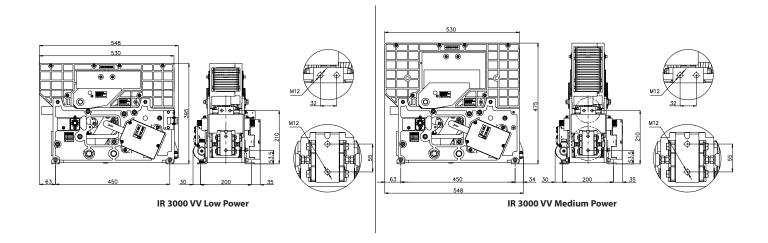
| Mechanical Characteristics       |                 |
|----------------------------------|-----------------|
| Mechanical Endurance (cycles)    | 6x50000         |
| Electrical durability [In @ Un ] | 4x200           |
| Shock and Vibrations (IEC61373)  | Cat.1 - Class B |
| Weight LP / MP [kg]              | 44 / 54         |
|                                  |                 |

| Control Circuit                        |                |
|--|----------------|
| Control Voltage Range                  | 0.7Uc ÷ 1.25Uc |
| Operated by                            | D.C. Motor     |
| Holding closed by                      | Holding Coil   |
| Peak closing power and time [W x s]    | 400 x 0.01     |
| Nominal closing power and time [W x s] | 250 x 1.5      |
| Holding Coil version                   |                |
| Nominal holding power @ 20°C [W]       | 50             |
| Nominal opening power @ 20°C [W]       | 0              |
| Controlled opening time [ms]           | < 50           |

| Auxiliary Contacts                                     |                                   |
|--|-----------------------------------|
| Туре   | Reed Contacts (Vacuum Technology) |
| Voltage [Vdc]  | 24 / 36 / 48 / 72 / 110           |
| Rated Current [A]                                      | 5                                 |
| Maximum Breaking Power with Inductive Load τ=2ms [W]   | 120                               |
| Maximum Breaking Current with Inductive Load τ=2ms [A] | 3                                 |
| Maximum Breaking Voltage with Inductive Load τ=2ms [V] | 250                               |
| Minimum let-through Current at 24Vdc [mA]              | 5                                 |

| Environmental Conditions                             |               |
|--|---------------|
| Stock Temperature Range                              | -50°C ÷ +85°C |
| Operational Temperature Range                        | -30°C ÷ +70°C |
| Pollution Degree - Overvoltage Category (EN 50124-1) | PD3 - OV4     |
| Clearance in air [mm]                                | 14            |
| Creepage distance [mm]                               | 32.2          |
| Comparative Tracking Index (CTI)                     | >600          |
| Max Altitude without Performance Derating [m]        | 2000          |
| Humidity <sup>5</sup>                                | 10 ÷ 95% RH   |

<sup>&</sup>lt;sup>5</sup> According to EN 50125-1





# HSCBS

Standard Family Code IR 3000 F SERIES M

Description



| Family Code |                  |                 |                |  |  |  |
|-------------|------------------|-----------------|----------------|--|--|--|
| Voltage     | Holding System   | Thermal Current |                |  |  |  |
| voitage     |                  | 1500 A          | 3000 A         |  |  |  |
| 900 V       | Holding Coil     | IR 3015 FC 09M  | IR 3030 FC 09M |  |  |  |
| 900 V       | Permanent Magnet | IR 3015 FP 09M  | IR 3030 FP 09M |  |  |  |
| 1800 V      | Holding Coil     | IR 3015 FC 18M  | IR 3030 FC 18M |  |  |  |
| 1000 V      | Permanent Magnet | IR 3015 FP 18M  | IR 3030 FP 18M |  |  |  |

#### IR3000 F Туре Number of Poles 1 NO **Mounting Position** Vertical Control Voltage Rating Uc [Vdc] 24 - 36 - 48 - 72 - 110<sup>1</sup> 5 N.O. + 6 N.C. **Auxiliary Contact Blocks** Block Type Reed Arc chute Material Ceramic Main Contacts tips Material AgSnO<sub>2</sub> Arcing Contacts tips Material AgW 42870370B Electric Diagram HC Electric Diagram PM 42870579B Layout Drawing HC 42870555C 42870556C Layout Drawing PM

#### <sup>1</sup> To be specified in order phase.

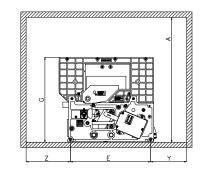
| DC single pole, magnetic blowout, trip free, air circuit breaker. The |
|---|
| closing mechanism is motor-operated independent type while the        |
| holding mechanism is magnetic type, provided with holding coil or     |
| permanent magnet. The breaker is equipped with a direct acting over-  |
| current trip device, which may be either unidirectional or bi-        |
| directional. Reference standard IEC 61992.                            |
|   |

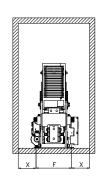
| 09M         | 18M  |
|-------------|--|
| 900         | 1800   |
| 1000        | 2000   |
| 2300        | 2300   |
| 1500        | / 30001  |
|             |  |
| 50 / 31.5   | 30 / 31.5  |
| 50 / 0      | 30 / 0   |
| 32.5 / 20.5 | 25.2 / 16.8  |
| 6 / 31.5    | 6 / 31.5   |
| up to       | 4 x U <sub>Ne</sub>  |
|             |  |
| 1 -         | ÷ 1.8  |
| 1.5         | ÷ 2.7  |
| 2.2         | 2 ÷ 4  |
| 3.5         | 3 ÷ 6  |
|             |  |
|             | 900<br>1000<br>2300<br>1500<br>50 / 31.5<br>50 / 0<br>32.5 / 20.5<br>6 / 31.5<br>up to |

<sup>&</sup>lt;sup>2</sup> Device cabled according IEC 60947

| Minimum clearances [mm] from <sup>3</sup> : |                             |                |       |         |     |     |     |                |
|---|-----------------------------|----------------|-------|---------|-----|-----|-----|----------------|
| Rate  | d Operational Voltage [Vdc] | A <sup>4</sup> | Е     | F       | G   | Х   | γ4  | Z <sup>4</sup> |
| 1800  | Metal Parts                 | 700            | 450 2 | 450 200 | 176 | 100 | 202 | 248            |
|   | Plastic Parts               | 600            |       |         | 4/0 | 50  | 150 | 198            |

<sup>&</sup>lt;sup>3</sup> Reduced distances should be approved by M.S.







 $<sup>^4\</sup>text{These}$  quotes are referred to a 50 % surface opening grid.

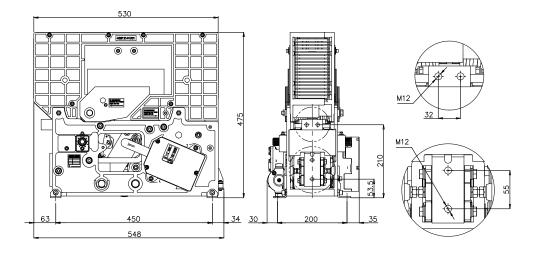
| Mechanical Characteristics       |                 |
|----------------------------------|-----------------|
| Mechanical Endurance (cycles)    | 6x50000         |
| Electrical durability [In @ Un ] | 4x200           |
| Shock and Vibrations (IEC61373)  | Cat.1 - Class B |
| Weight [kg]                      | 54              |

| Control Circuit                               |                                  |
|---|----------------------------------|
| Control Voltage Range                         | 0.7Uc ÷ 1.25Uc                   |
| Operated by                                   | D.C. Motor                       |
| Holding closed by                             | Holding Coil or Permanent Magnet |
| Peak closing power and time [W x s]           | 400 x 0.01                       |
| Nominal closing power and time [W x s]        | 200 x 1.5                        |
| Holding Coil version                          |                                  |
| Nominal holding power @ 20°C [W]              | 15                               |
| Nominal opening power @ 20°C [W]              | 0                                |
| Controlled opening time [ms]                  | < 50                             |
| Permanent Magnet version                      |                                  |
| Nominal holding power @ 20°C [W]              | 0                                |
| Nominal opening power and time @ 20°C [W x s] | 400 x 0.02                       |
| Controlled opening time [ms]                  | < 20                             |

| Auxiliary Contacts   |                                   |
|--|-----------------------------------|
| Туре   | Reed Contacts (Vacuum Technology) |
| Voltage [Vdc]  | 24 / 36 / 48 / 72 / 110           |
| Rated Current [A]  | 5                                 |
| Maximum Breaking Power with Inductive Load $\tau$ =2ms [W] | 120                               |
| Maximum Breaking Current with Inductive Load τ=2ms [A]     | 3                                 |
| Maximum Breaking Voltage with Inductive Load τ=2ms [V]     | 250                               |
| Minimum let-through Current at 24Vdc [mA]                  | 5                                 |

| Environmental Conditions                             |               |
|--|---------------|
| Stock Temperature Range                              | -50°C ÷ +85°C |
| Operational Temperature Range                        | -30°C ÷ +70°C |
| Pollution Degree - Overvoltage Category (EN 50124-1) | PD3 - OV4     |
| Clearance in air [mm]                                | 14            |
| Creepage distance [mm]                               | 32.2          |
| Comparative Tracking Index (CTI)                     | >600          |
| Max Altitude without Performance Derating [m]        | 2000          |
| Humidity <sup>5</sup>                                | 10 ÷ 95% RH   |

<sup>&</sup>lt;sup>5</sup> According to EN 50125-1





# ISCBS

### Standard Family Code IR 3000 F SERIES L



|   | Family Code |                          |                 |                |  |  |  |
|---|-------------|--------------------------|-----------------|----------------|--|--|--|
|   | Voltage     | Voltage Holding System - | Thermal Current |                |  |  |  |
| ١ | voitage     |                          | 1500 A          | 3000 A         |  |  |  |
| Ī | 900 V       | Holding Coil             | IR 3015 FC 09L  | IR 3030 FC 09L |  |  |  |
|   |             | Permanent Magnet         | IR 3015 FP 09L  | IR 3030 FP 09L |  |  |  |
|   |             |                          |                 |                |  |  |  |

| Туре                            | IR3000 F                             |
|---------------------------------|--------------------------------------|
| Number of Poles                 | 1 NO                                 |
| Mounting Position               | Vertical                             |
| Control Voltage Rating Uc [Vdc] | 24 - 36 - 48 - 72 - 110 <sup>1</sup> |
| Auxiliary Contact Blocks        | 5 N.O. + 6 N.C.                      |
| Block Type                      | Reed                                 |
| Arc chute Material              | Ceramic                              |
| Main Contacts tips Material     | AgSnO <sub>2</sub>                   |
| Arcing Contacts tips Material   | AgW                                  |
| Electric Diagram HC             | 42870370B                            |
| Electric Diagram PM             | 42870579B                            |
| Layout Drawing HC               | 42870555C                            |
| Layout Drawing PM               | 42870556C                            |

 $<sup>^{\</sup>rm 1}$  To be specified in order phase.

#### Description

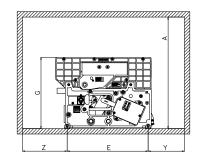
DC single pole, magnetic blowout, trip free, air circuit breaker. The closing mechanism is motor-operated independent type while the holding mechanism is magnetic type, provided with holding coil or permanent magnet. The breaker is equipped with a direct acting overcurrent trip device, which may be either unidirectional or bidirectional. Reference standard IEC 61992.

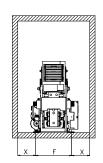
| Electrical Characteristics                                     | 09L                       |
|--|---------------------------|
|  | 17                        |
| Rated Operational Voltage U№ [Vdc] <sup>1</sup>                | 900                       |
| Max Operational Voltage [Vdc]                                  | 1000                      |
| Rated Insulation Voltage [Vdc]                                 | 2300                      |
| Conventional Free Air Thermal Current [A] at 40°C <sup>2</sup> | 1500 / 3000 <sup>1</sup>  |
| Breaking Capacity [kA/ms]                                      |                           |
| Rated Short Cicuit   | 31.5 / 21                 |
| Duty F: Maximum Fault  | 31.5 / 0                  |
| Duty E: Maximum Energy   | 25.2 / 16.8               |
| Duty D: Distant Fault  | 3 / 21                    |
| Peak arc voltage x U <sub>Ne</sub> [Û <sub>arc</sub> ]         | up to 4 x U <sub>Ne</sub> |
| Standard direct acting trip device [kA] <sup>1</sup>           |                           |
| Setting Range 1  | 1 ÷ 1.8                   |
| Setting Range 2  | 1.5 ÷ 2.7                 |
| Setting Range 3  | 2.2 ÷ 4                   |
| Setting Range 4  | 3.3 ÷ 6                   |
| Blow Out Circuit Type  | Coil                      |

 $<sup>^{2}</sup>$  Device cabled according IEC 60947

|     | Minimum clearances [mm] from <sup>3</sup> : |     |         |             |       |     |                |     |
|-----|---|-----|---------|-------------|-------|-----|----------------|-----|
| Rat | A <sup>4</sup>                              | E   | F       | G           | Х     | γ4  | Z <sup>4</sup> |     |
| 900 | Metal Parts                                 | 620 | 450 200 | 620 450 200 | 0 396 | 100 | 202            | 248 |
|     | Plastic Parts                               | 520 | 450     | 200         | 390   | 50  | 150            | 198 |

<sup>&</sup>lt;sup>3</sup> Reduced distances should be approved by M.S.







 $<sup>^4\</sup>mathrm{These}$  quotes are referred to a 50 % surface opening grid.

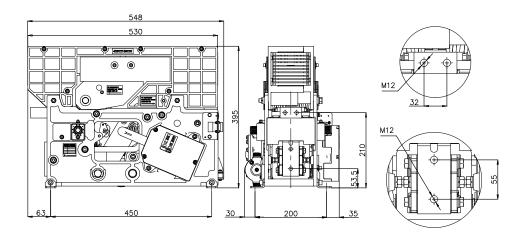
| Mechanical Characteristics       |                 |
|----------------------------------|-----------------|
| Mechanical Endurance (cycles)    | 6x50000         |
| Electrical durability [In @ Un ] | 4x200           |
| Shock and Vibrations (IEC61373)  | Cat.1 - Class B |
| Weight [kg]                      | 44              |

| Control Circuit                               |                                  |
|---|----------------------------------|
| Control Voltage Range                         | 0.7Uc ÷ 1.25Uc                   |
| Operated by                                   | D.C. Motor                       |
| Holding closed by                             | Holding Coil or Permanent Magnet |
| Peak closing power and time [W x s]           | 400 x 0.01                       |
| Nominal closing power and time [W x s]        | 200 x 1.5                        |
| Holding Coil version                          |                                  |
| Nominal holding power @ 20°C [W]              | 15                               |
| Nominal opening power @ 20°C [W]              | 0                                |
| Controlled opening time [ms]                  | < 50                             |
| Permanent Magnet version                      |                                  |
| Nominal holding power @ 20°C [W]              | 0                                |
| Nominal opening power and time @ 20°C [W x s] | 400 x 0.02                       |
| Controlled opening time [ms]                  | < 20                             |

| Auxiliary Contacts                                     |                                   |
|--|-----------------------------------|
| Туре   | Reed Contacts (Vacuum Technology) |
| Voltage [Vdc]  | 24 / 36 / 48 / 72 / 110           |
| Rated Current [A]                                      | 5                                 |
| Maximum Breaking Power with Inductive Load τ=2ms [W]   | 120                               |
| Maximum Breaking Current with Inductive Load τ=2ms [A] | 3                                 |
| Maximum Breaking Voltage with Inductive Load τ=2ms [V] | 250                               |
| Minimum let-through Current at 24Vdc [mA]              | 5                                 |

| Environmental Conditions                             |               |
|--|---------------|
| Stock Temperature Range                              | -50°C ÷ +85°C |
| Operational Temperature Range                        | -30°C ÷ +70°C |
| Pollution Degree - Overvoltage Category (EN 50124-1) | PD3 - OV4     |
| Clearance in air [mm]                                | 14            |
| Creepage distance [mm]                               | 32.2          |
| Comparative Tracking Index (CTI)                     | >600          |
| Max Altitude without Performance Derating [m]        | 2000          |
| Humidity <sup>5</sup>                                | 10 ÷ 95% RH   |

<sup>&</sup>lt;sup>5</sup> According to EN 50125-1





| Mechanical Characteristics       |                 |
|----------------------------------|-----------------|
| Mechanical Endurance (cycles)    | 6x50000         |
| Electrical durability [In @ Un ] | 4x200           |
| Shock and Vibrations (IEC61373)  | Cat.1 - Class B |
| Weight [kg]                      | 75              |

| Control Circuit                               |                                  |
|---|----------------------------------|
| Control Voltage Range                         | 0.7Uc ÷ 1.25Uc                   |
| Operated by                                   | D.C. Motor                       |
| Holding closed by                             | Holding Coil or Permanent Magnet |
| Peak closing power and time [W x s]           | 400 x 0.01                       |
| Nominal closing power and time [W x s]        | 200 x 1.5                        |
| Holding Coil version                          |                                  |
| Nominal holding power @ 20°C [W]              | 15                               |
| Nominal opening power @ 20°C [W]              | 0                                |
| Controlled opening time [ms]                  | < 50                             |
| Permanent Magnet version                      |                                  |
| Nominal holding power @ 20°C [W]              | 0                                |
| Nominal opening power and time @ 20°C [W x s] | 400 x 0.02                       |
| Controlled opening time [ms]                  | < 20                             |

| Auxiliary Contacts                                     |                                   |
|--|-----------------------------------|
| Туре   | Reed Contacts (Vacuum Technology) |
| Voltage [V <sub>dc</sub> ]                             | 24 / 36 / 48 / 72 / 110           |
| Rated Current [A]                                      | 5                                 |
| Maximum Breaking Power with Inductive Load τ=2ms [W]   | 120                               |
| Maximum Breaking Current with Inductive Load τ=2ms [A] | 3                                 |
| Maximum Breaking Voltage with Inductive Load τ=2ms [V] | 250                               |
| Minimum let-through Current at 24Vdc [mA]              | 5                                 |

| Environmental Conditions                             |               |
|--|---------------|
| Stock Temperature Range                              | -50°C ÷ +85°C |
| Operational Temperature Range                        | -30°C ÷ +70°C |
| Pollution Degree - Overvoltage Category (EN 50124-1) | PD3 - OV4     |
| Clearance in air [mm]                                | 14            |
| Creepage distance [mm]                               | 32.2          |
| Comparative Tracking Index (CTI)                     | >600          |
| Max Altitude without Performance Derating [m]        | 2000          |
| Humidity <sup>5</sup>                                | 10 ÷ 95% RH   |

<sup>&</sup>lt;sup>5</sup> According to EN 50125-1

