

TECHNICAL GUIDE

## LS..K mini contactors and SH..K mini contactor relays



# LS..K mini contactors and SH..K mini contactor relays

## 2 Presentation

### 3-pole mini contactors - 4 to 5.5 kW

|   |                    |             |
|---|--------------------|-------------|
| 3 | LS05K..A, LS06K..A | AC operated |
| 4 | LS05K..D           | DC operated |

### 4-pole mini contactors - 4 kW

|   |          |             |
|---|----------|-------------|
| 5 | LS05K..A | AC operated |
| 6 | LS05K..D | DC operated |

### 4-pole mini contactor relays

|   |          |             |
|---|----------|-------------|
| 7 | SH05K..A | AC operated |
| 8 | SH05K..D | DC operated |

## 9 Accessories

## 10 Technical data

## 18 Terminal marking and positioning

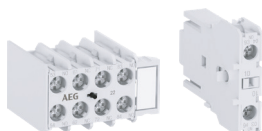
## 19 Dimensions

## LS..K mini contactors and SH..K mini contactor relays

LS..K mini contactors are high performance devices with small dimensions. They are used for switching, even in harsh conditions, resistive loads up to 20 A and motors up to 5.5 kW / 400 V.



In the assortment, it is possible to find 3-pole contactors, 4-pole contactors and 4-pole contactor relays. These devices can be operated with standard AC or extended operating limits DC coils. Auxiliary contact blocks for front and side mounting, surge suppressors and kits for creating reversing solutions or for the connection with manual motor starters complete the offer.



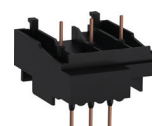
### Auxiliary contact blocks

1-pole side mounting and 4-pole front mounting auxiliary contact blocks available, both with different contact configurations.



### Reversing solutions

Using the VB05K mechanical interlock kit, it is possible to build a reversing contactor in very short time for a dual direction motor control.



### Full protection

LS..K contactors can be easily combined with AEG protection devices in order to safeguard safety of people and equipment. The connection with MBS32NG can be done using MF32L05K link.

LS05K..A, LS06K..A 3-pole mini contactors

4 to 5.5 kW

AC operated



LS05K-30-10-AD

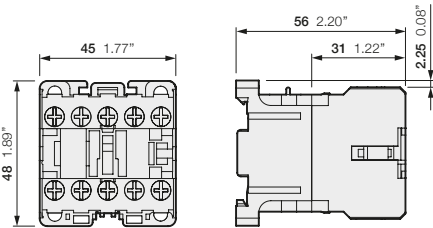


LS06K-30-10-AD

LS05K..A and LS06K..A 3-pole mini contactors are compact devices for the control of resistive loads up to 20 A or motors up to 5.5 kW. These contactors are designed with 3 main poles and one built-in auxiliary contact:

- control circuit: AC operated
- suitable for use in combination with auxiliary contact blocks : 4 front or up to 2 side auxiliary contacts
- rail or wall mounting possible

| IEC                     |                                             | UL/CSA                        |                                | Rated control circuit voltage Uc |           | Auxiliary contacts fitted | Type           | Order code      | Weight         |
|-------------------------|---------------------------------------------|-------------------------------|--------------------------------|----------------------------------|-----------|---------------------------|----------------|-----------------|----------------|
| Rated operational power | current<br>$\theta \leq 55^{\circ}\text{C}$ | 3-phase motor rating<br>480 V | General use rating<br>600 V AC |                                  |           |                           |                |                 | Pkg<br>(1 pce) |
| 400 V<br>AC-3<br>kW     | AC-1<br>A                                   | hp                            | A                              | V 50 Hz                          | V 60 Hz   |                           |                |                 | kg             |
| 4                       | 20                                          | 5                             | 20                             | 24                               | 24        | 1 0                       | LS05K-30-10-AD | 4TQE581011R0000 | 0.170          |
|                         |                                             |                               |                                |                                  |           | 0 1                       | LS05K-30-01-AD | 4TQE581012R0000 | 0.170          |
|                         |                                             |                               |                                | 110...115                        | 110...120 | 1 0                       | LS05K-30-10-AJ | 4TQE581021R0000 | 0.170          |
|                         |                                             |                               |                                |                                  |           | 0 1                       | LS05K-30-01-AJ | 4TQE581022R0000 | 0.170          |
|                         |                                             |                               |                                | 220...230                        | 220...230 | 1 0                       | LS05K-30-10-AN | 4TQE581031R0000 | 0.170          |
|                         |                                             |                               |                                |                                  |           | 0 1                       | LS05K-30-01-AN | 4TQE581032R0000 | 0.170          |
| 5.5                     | 20                                          | 7.5                           | 20                             | 24                               | 24        | 1 0                       | LS06K-30-10-AD | 4TQE582011R0000 | 0.170          |
|                         |                                             |                               |                                |                                  |           | 0 1                       | LS06K-30-01-AD | 4TQE582012R0000 | 0.170          |
|                         |                                             |                               |                                | 110...115                        | 110...120 | 1 0                       | LS06K-30-10-AJ | 4TQE582021R0000 | 0.170          |
|                         |                                             |                               |                                |                                  |           | 0 1                       | LS06K-30-01-AJ | 4TQE582022R0000 | 0.170          |
|                         |                                             |                               |                                | 220...230                        | 220...230 | 1 0                       | LS06K-30-10-AN | 4TQE582031R0000 | 0.170          |
|                         |                                             |                               |                                |                                  |           | 0 1                       | LS06K-30-01-AN | 4TQE582032R0000 | 0.170          |



LS05K..A, LS06K..A

Main dimensions mm, inches

LS05K..D 3-pole mini contactors

4 kW

DC operated



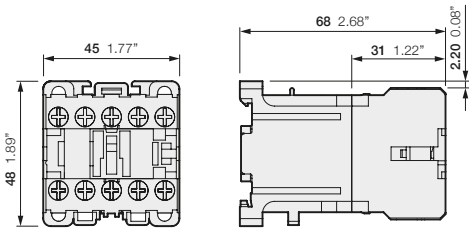
LS05K-30-10-DD

LS05K..D 3-pole mini contactors are compact devices for the control of resistive loads up to 20 A or motors up to 4 kW. These contactors are designed with 3 main poles and one built-in auxiliary contact:

- control circuit: DC operated
- suitable for use in combination with auxiliary contact blocks : 4 front or up to 2 side auxiliary contacts
- rail or wall mounting possible

| IEC                     |                                             | UL/CSA                        |                                | Rated control circuit voltage Uc | Auxiliary contacts fitted                                                         | Type           | Order code      | Weight     |
|-------------------------|---------------------------------------------|-------------------------------|--------------------------------|----------------------------------|-----------------------------------------------------------------------------------|----------------|-----------------|------------|
| Rated operational power | current<br>$\theta \leq 55^{\circ}\text{C}$ | 3-phase motor rating<br>480 V | General use rating<br>600 V AC |                                  |                                                                                   |                |                 | Pkg (1pce) |
| 400 V                   | AC-3                                        |                               |                                | V DC                             |  |                |                 | kg         |
| 4                       | 20                                          | 5                             | 20                             | 24 (1)                           | 1 0                                                                               | LS05K-30-10-DD | 4TQE581041R0000 | 0.250      |
|                         |                                             |                               |                                |                                  | 0 1                                                                               | LS05K-30-01-DD | 4TQE581042R0000 | 0.250      |
|                         |                                             |                               |                                | 110 (1)                          | 1 0                                                                               | LS05K-30-10-DJ | 4TQE581051R0000 | 0.250      |
|                         |                                             |                               |                                |                                  | 0 1                                                                               | LS05K-30-01-DJ | 4TQE581052R0000 | 0.250      |

(1) Extended operating limits coils offer a wider range of voltages,  $-30\% \leq U_c \leq +30\%$ , which can be used for the operation with a limitation of the number of auxiliary contacts.



LS05K..D

Main dimensions mm, inches

LS05K..A 4-pole mini contactors

4 kW

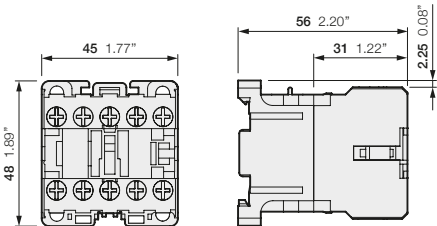
AC operated



LS05K-40-00-AD

- LS05K..A 4-pole mini contactors are compact devices for the control of resistive loads up to 20 A or motors up to 4 kW.
- control circuit: AC operated
  - suitable for use in combination with auxiliary contact blocks : 4 front or up to 2 side auxiliary contacts
  - rail or wall mounting possible

| IEC                                                           | UL/CSA                        |                                | Rated control circuit voltage Uc |             | Auxiliary contacts fitted | Type           | Order code      | Weight         |
|---------------------------------------------------------------|-------------------------------|--------------------------------|----------------------------------|-------------|---------------------------|----------------|-----------------|----------------|
| Rated operational current<br>$\theta \leq 55^{\circ}\text{C}$ | 3-phase motor rating<br>480 V | General use rating<br>600 V AC |                                  |             |                           |                |                 | Pkg<br>(1 pce) |
| AC-1                                                          |                               |                                |                                  |             |                           |                |                 | kg             |
| A                                                             | hp                            | A                              | V 50 Hz                          | V 60 Hz     |                           |                |                 |                |
| 4 N.O. main poles                                             |                               |                                |                                  |             |                           |                |                 |                |
| 20                                                            | 5                             | 20                             | 24                               | 24          | 0 0                       | LS05K-40-00-AD | 4TQE581013R0000 | 0.170          |
|                                                               |                               |                                | 220 ... 230                      | 220 ... 230 | 0 0                       | LS05K-40-00-AN | 4TQE581033R0000 | 0.170          |



LS05K..A

Main dimensions mm, inches

LS05K..D 4-pole mini contactors

4 kW

DC operated



LS05K-40-00-DD

LS05K..A 4-pole mini contactors are compact devices for the control of resistive loads up to 20 A or motors up to 4 kW.

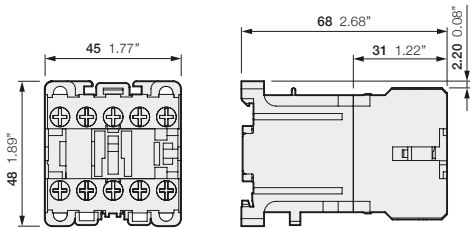
- control circuit: DC operated
- suitable for use in combination with auxiliary contact blocks : 4 front or up to 2 side auxiliary contacts
- rail or wall mounting possible

| IEC                                                           | UL/CSA                        |                                | Rated control circuit voltage<br>Uc | Auxiliary contacts fitted                                                          | Type | Order code | Weight         |
|---------------------------------------------------------------|-------------------------------|--------------------------------|-------------------------------------|------------------------------------------------------------------------------------|------|------------|----------------|
| Rated operational current<br>$\theta \leq 55^{\circ}\text{C}$ | 3-phase motor rating<br>480 V | General use rating<br>600 V AC |                                     |                                                                                    |      |            | Pkg<br>(1 pce) |
| AC-1                                                          |                               |                                |                                     |  |      |            | kg             |
| A                                                             | hp                            | A                              | V DC                                |                                                                                    |      |            |                |

4 N.O. main poles

|    |   |    |         |     |                |                 |       |
|----|---|----|---------|-----|----------------|-----------------|-------|
| 20 | 5 | 20 | 24 (1)  | 0 0 | LS05K-40-00-DD | 4TQE581043R0000 | 0.250 |
|    |   |    | 110 (1) | 0 0 | LS05K-40-00-DJ | 4TQE581053R0000 | 0.250 |

(1) Extended operating limits coils offer a wider range of voltages,  $-30\% \leq U_c \leq +30\%$ , which can be used for the operation with a limitation of the number of auxiliary contacts.



LS05K..D

Main dimensions mm, inches

SH05K..A 4-pole mini contactor relays

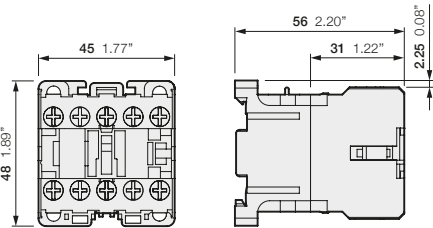
AC operated



SH05H-40-AD

- SH05K..A 4-pole mini contactor relays are compact devices for the control of small loads up to 6 A.
- control circuit: AC operated
  - suitable for use in combination with auxiliary contact blocks : 4 front or up to 2 side auxiliary contacts
  - rail or wall mounting possible

| Rated control circuit voltage<br>Uc |             | Auxiliary contacts fitted                                                         | Type        | Order code      | Weight<br>Pkg<br>(1 pce) |
|-------------------------------------|-------------|-----------------------------------------------------------------------------------|-------------|-----------------|--------------------------|
| V 50 Hz                             | V 60 Hz     |  |             |                 | kg                       |
| 4 N.O. poles                        |             |                                                                                   |             |                 |                          |
| 24                                  | 24          | 4 0                                                                               | SH05K-40-AD | 4TQE583011R0000 | 0.170                    |
| 110 ... 115                         | 110 ... 120 | 4 0                                                                               | SH05K-40-AJ | 4TQE583021R0000 | 0.170                    |
| 220 ... 230                         | 220 ... 230 | 4 0                                                                               | SH05K-40-AN | 4TQE583031R0000 | 0.170                    |
| 3 N.O. + 1 N.C. poles               |             |                                                                                   |             |                 |                          |
| 24                                  | 24          | 3 1                                                                               | SH05K-31-AD | 4TQE583013R0000 | 0.170                    |
| 110 ... 115                         | 110 ... 120 | 3 1                                                                               | SH05K-31-AJ | 4TQE583023R0000 | 0.170                    |
| 220 ... 230                         | 220 ... 230 | 3 1                                                                               | SH05K-31-AN | 4TQE583033R0000 | 0.170                    |
| 2 N.O. + 2 N.C. poles               |             |                                                                                   |             |                 |                          |
| 24                                  | 24          | 2 2                                                                               | SH05K-22-AD | 4TQE583012R0000 | 0.170                    |
| 110 ... 115                         | 110 ... 120 | 2 2                                                                               | SH05K-22-AJ | 4TQE583022R0000 | 0.170                    |
| 220 ... 230                         | 220 ... 230 | 2 2                                                                               | SH05K-22-AN | 4TQE583032R0000 | 0.170                    |



SH05K..A

Main dimensions mm, inches



SH05K..D 4-pole mini contactor relays

DC operated

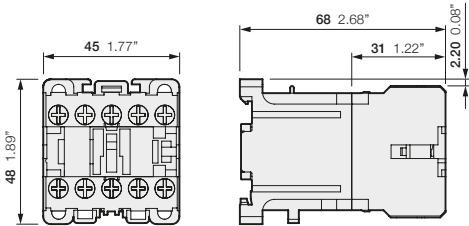


SH05K-40-DD

- SH05K..D 4-pole mini contactor relays are compact devices for the control of small loads up to 6 A.
- control circuit: DC operated
  - suitable for use in combination with auxiliary contact blocks : 4 front or up to 2 side auxiliary contacts
  - rail or wall mounting possible.

| Rated control circuit voltage<br>Uc | Auxiliary contacts fitted | Type        | Order code      | Weight<br><br>Pkg (1 pce)<br><br>kg |
|-------------------------------------|---------------------------|-------------|-----------------|-------------------------------------|
| V DC                                |                           |             |                 |                                     |
| <b>4 N.O. poles</b>                 |                           |             |                 |                                     |
| 24 (1)                              | 4 0                       | SH05K-40-DD | 4TQE583041R0000 | 0.235                               |
| <b>3 N.O. + 1 N.C. poles</b>        |                           |             |                 |                                     |
| 24 (1)                              | 3 1                       | SH05K-31-DD | 4TQE583043R0000 | 0.235                               |
| <b>2 N.O. + 2 N.C. poles</b>        |                           |             |                 |                                     |
| 24 (1)                              | 2 2                       | SH05K-22-DD | 4TQE583042R0000 | 0.235                               |

(1) Extended operating limits coils offer a wider range of voltages, -30% ≤ Uc ≤ +30%, which can be used for the operation with a limitation of the number of auxiliary contacts.



SH05K..D

Main dimensions mm, inches

## Accessories



HS05K-F-22



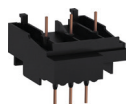
HS05K-L-10



EB05K-1



VB05K



MF32L05K

### Auxiliary contact blocks for LS..K mini contactors and SH..K mini contactors relays

| Suitable for | Auxiliary contacts | Type | Order code | Weight            |
|--------------|--------------------|------|------------|-------------------|
|              |                    |      |            | Pkg (1 pce)<br>kg |

### Front mounted instantaneous auxiliary contact blocks

|                                     |     |            |                 |       |
|-------------------------------------|-----|------------|-----------------|-------|
| All LS05K, LS06K and SH05K variants | 4 0 | HS05K-F-40 | 4TQE589001R0000 | 0.040 |
|                                     | 3 1 | HS05K-F-31 | 4TQE589002R0000 | 0.040 |
|                                     | 2 2 | HS05K-F-22 | 4TQE589003R0000 | 0.040 |

### Side mounted instantaneous auxiliary contact block

|                                     |     |            |                 |       |
|-------------------------------------|-----|------------|-----------------|-------|
| All LS05K, LS06K and SH05K variants | 1 0 | HS05K-L-10 | 4TQE589004R0000 | 0.017 |
|                                     | 0 1 | HS05K-L-01 | 4TQE589005R0000 | 0.017 |

### Other accessories for LS..K mini contactors and SH..K mini contactors relays

| Suitable for | Rated control circuit voltage U <sub>c</sub> |         |         | Protection type | Type | Order code | Weight            |
|--------------|----------------------------------------------|---------|---------|-----------------|------|------------|-------------------|
|              | V DC                                         | V 50 Hz | V 60 Hz |                 |      |            | Pkg (1 pce)<br>kg |

### Surge suppressors for contactor coils

|                                                 |           |           |           |       |         |                 |       |
|-------------------------------------------------|-----------|-----------|-----------|-------|---------|-----------------|-------|
| All LS05K, LS06K and SH05K AC operated variants | –         | 12 ... 60 | 12 ... 60 | R/C   | EB05K-1 | 4TQE589006R0000 | 0.006 |
| All LS05K, LS06K and SH05K DC operated variants | 6 ... 240 | –         | –         | Diode | EB05K-3 | 4TQE589008R0000 | 0.006 |

### Mechanical interlock

|                                     |       |                 |       |
|-------------------------------------|-------|-----------------|-------|
| All LS05K, LS06K and SH05K variants | VB05K | 4TQE589009R0000 | 0.003 |
|-------------------------------------|-------|-----------------|-------|

### Connecting link with manual motor starters

|                              |          |                 |       |
|------------------------------|----------|-----------------|-------|
| All LS05K and LS06K variants | MF32L05K | 4TQE569017R0000 | 0.021 |
|------------------------------|----------|-----------------|-------|

# LS05K, LS06K 3-pole and 4-pole mini contactors

## Technical data

### Main pole – Utilization characteristics according to IEC

| Contactor types                                                                                                                                                             | AC operated |          | LS05K..A                                                                                             | LS06K..A |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|------------------------------------------------------------------------------------------------------|----------|
|                                                                                                                                                                             | DC operated |          | LS05K..D                                                                                             |          |
| Standards                                                                                                                                                                   |             |          | IEC/EN 60947-1, IEC/EN 60947-4-1                                                                     |          |
| Rated operational voltage U <sub>e</sub> max                                                                                                                                |             |          | 690 V AC, 440 V DC                                                                                   |          |
| Rated frequency (without derating)                                                                                                                                          |             |          | DC or 50 / 60 Hz                                                                                     |          |
| Conventional free-air thermal current I <sub>th</sub><br>acc. to IEC/EN 60947-4-1, open contactors, $\theta \leq 55^\circ\text{C}$ ,<br>with conductor cross-sectional area |             |          | 20 A                                                                                                 |          |
| AC-1 Utilization category for air temperature<br>close to contactor $\theta \leq 55^\circ\text{C}$                                                                          |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current AC-1                                                                                                                             | 230 V       |          | 20 A                                                                                                 |          |
| U <sub>e</sub> max $\leq 690$ V, 50/60 Hz                                                                                                                                   | 400 V       |          | 20 A                                                                                                 |          |
|                                                                                                                                                                             | 500 V       |          | 20 A                                                                                                 |          |
|                                                                                                                                                                             | 690 V       |          | 20 A                                                                                                 |          |
| AC-1 Utilization category for air temperature<br>close to contactor $55 < \theta \leq 70^\circ\text{C}$                                                                     |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current AC-1                                                                                                                             | 230 V       |          | 16 A                                                                                                 |          |
| U <sub>e</sub> max $\leq 690$ V, 50/60 Hz                                                                                                                                   | 400 V       |          | 16 A                                                                                                 |          |
|                                                                                                                                                                             | 500 V       |          | 16 A                                                                                                 |          |
|                                                                                                                                                                             | 690 V       |          | 16 A                                                                                                 |          |
| AC-3 Utilization category for air temperature<br>close to contactor $\theta \leq 55^\circ\text{C}$                                                                          |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current AC-3                                                                                                                             | 230 V       | 9 A      |                                                                                                      | 12 A     |
|                                                                                                                                                                             | 400 V       | 9 A      |                                                                                                      | 12 A     |
|                                                                                                                                                                             | 500 V       | 8 A      |                                                                                                      | 10 A     |
|                                                                                                                                                                             | 690 V       | 5 A (1)  |                                                                                                      | 5 A      |
|  3-phase motors                                                                            |             |          |                                                                                                      |          |
| Rated operational power AC-3                                                                                                                                                | 230 V       | 2.2 kW   |                                                                                                      | 3 kW     |
| 1500 r.p.m. 50 Hz                                                                                                                                                           | 400 V       | 4 kW     |                                                                                                      | 5.5 kW   |
| 1800 r.p.m. 60 Hz                                                                                                                                                           | 500 V       | 4 kW     |                                                                                                      | 5.5 kW   |
| 3-phase motors                                                                                                                                                              | 690 V       | 4 kW (1) |                                                                                                      | 4 kW     |
| AC-4 Utilization category for air temperature<br>close to contactor $\theta \leq 55^\circ\text{C}$                                                                          |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current AC-4                                                                                                                             | 230 V       | 9 A      |                                                                                                      |          |
|                                                                                                                                                                             | 400 V       | 9 A (1)  |                                                                                                      |          |
|                                                                                                                                                                             | 500 V       | 8 A      |                                                                                                      |          |
|                                                                                                                                                                             | 690 V       | 5 A (1)  |                                                                                                      |          |
|  3-phase motors                                                                          |             |          |                                                                                                      |          |
| Rated operational power AC-4                                                                                                                                                | 230 V       | 2.2 kW   |                                                                                                      |          |
| 1500 r.p.m. 50 Hz                                                                                                                                                           | 400 V       | 4 kW (1) |                                                                                                      |          |
| 1800 r.p.m. 60 Hz                                                                                                                                                           | 500 V       | 4 kW     |                                                                                                      |          |
| 3-phase motors                                                                                                                                                              | 690 V       | 4 kW (1) |                                                                                                      |          |
| DC-1 Utilization category for air temperature<br>close to contactor $\theta \leq 55^\circ\text{C}$                                                                          |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current DC-1                                                                                                                             | 24 V        | 20 A     |                                                                                                      |          |
| with 3 poles in series                                                                                                                                                      | 48 V        | 20 A     |                                                                                                      |          |
|                                                                                                                                                                             | 60 V        | 20 A     |                                                                                                      |          |
|                                                                                                                                                                             | 125 V       | 10 A     |                                                                                                      |          |
|                                                                                                                                                                             | 220 V       | 8 A      |                                                                                                      |          |
| DC-3 Utilization category for air temperature<br>close to contactor $\theta \leq 55^\circ\text{C}$                                                                          |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current DC-3                                                                                                                             | 24 V        | 12 A     |                                                                                                      |          |
| with 3 poles in series                                                                                                                                                      | 48 V        | 9 A      |                                                                                                      |          |
|                                                                                                                                                                             | 60 V        | 9 A      |                                                                                                      |          |
|                                                                                                                                                                             | 125 V       | 6 A      |                                                                                                      |          |
|                                                                                                                                                                             | 220 V       | 2.5 A    |                                                                                                      |          |
| DC-5 Utilization category for air temperature<br>close to contactor $\theta \leq 55^\circ\text{C}$                                                                          |             |          |                                                                                                      |          |
| I <sub>e</sub> / Rated operational current DC-5                                                                                                                             | 24 V        | 9 A      |                                                                                                      |          |
| with 3 poles in series                                                                                                                                                      | 48 V        | 8 A      |                                                                                                      |          |
|                                                                                                                                                                             | 60 V        | 7 A      |                                                                                                      |          |
|                                                                                                                                                                             | 125 V       | 2 A      |                                                                                                      |          |
|                                                                                                                                                                             | 220 V       | 0.8 A    |                                                                                                      |          |
| Rated making capacity                                                                                                                                                       |             |          | 10 x I <sub>e</sub> AC-3 acc. to IEC/EN 60947-4-1, 12 x I <sub>e</sub> AC-4 acc. to IEC/EN 60947-4-1 |          |
| Rated breaking capacity                                                                                                                                                     |             |          | 8 x I <sub>e</sub> AC-3 acc. to IEC/EN 60947-4-1, 10 x I <sub>e</sub> AC-4 acc. to IEC/EN 60947-4-1  |          |
| Short-circuit protection device for contactors<br>without thermal O/L relay - motor protection excluded<br>fuse type gG                                                     |             |          | Type 1: 32 A / Type 2: 20 A                                                                          |          |
| Rated short-time withstand current I <sub>cw</sub> at 40 °C ambient<br>temperature, in free air from a cold state                                                           | 10 s        |          | 72 A                                                                                                 | 96 A     |
| Maximum breaking capacity cos $\varphi = 0.45$                                                                                                                              | at 400 V    |          | 90 A                                                                                                 | 120 A    |
| Maximum electrical switching frequency                                                                                                                                      | AC          |          | 300 cycles/h (AC-1), 1200 cycles/h (AC-3), 150 cycles/h (AC-4)                                       |          |
|                                                                                                                                                                             | DC          |          | 600 cycles/h                                                                                         |          |

(1) Valid for N.O. contacts only. Other ratings on request.

## LS05K, LS06K 3-pole and 4-pole mini contactors

### Technical data

#### Main pole – Utilization characteristics according to UL/NEMA/CSA

| Contactor types                                                                                                        | AC operated  | LS05K...A                        |  | LS06K...A |
|------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|--|-----------|
|                                                                                                                        | DC operated  | LS05K...D                        |  |           |
| Standards                                                                                                              |              | UL/CSA 60947-1, UL/CSA 60947-4-1 |  |           |
| Maximum operational voltage                                                                                            |              | 600 V AC                         |  |           |
| UL/CSA general use rating                                                                                              |              | 20 A / 600 V                     |  |           |
| UL/CSA maximum 1-phase motor rating<br>for air temperature close to contactor $\theta \leq 40\text{ }^{\circ}\text{C}$ |              |                                  |  |           |
| Full load current                                                                                                      | 115 V AC     | 9.8 A                            |  | 9.8 A     |
|                                                                                                                        | 230 V AC     | 10 A                             |  | 12 A      |
| Horse power rating                                                                                                     | 115 V AC     | 0.5 hp                           |  | 0.5 hp    |
|                                                                                                                        | 230 V AC     | 1.5 hp                           |  | 2 hp      |
| UL/CSA maximum 3-phase motor rating<br>for air temperature close to contactor $\theta \leq 40\text{ }^{\circ}\text{C}$ |              |                                  |  |           |
| Full load current                                                                                                      | 200 V AC     | 11 A                             |  | 11 A      |
|                                                                                                                        | 240 V AC     | 9.6 A                            |  | 9.6 A     |
|                                                                                                                        | 380-415 V AC | 6.1 A                            |  | 9.7 A     |
|                                                                                                                        | 440-480 V AC | 7.6 A                            |  | 11 A      |
|                                                                                                                        | 550-600 V AC | 6.1 A                            |  | 11 A      |
| Horse power rating                                                                                                     | 200 V AC     | 3 hp                             |  | 3 hp      |
|                                                                                                                        | 240 V AC     | 3 hp                             |  | 3 hp      |
|                                                                                                                        | 380-415 V AC | 3 hp                             |  | 5 hp      |
|                                                                                                                        | 440-480 V AC | 5 hp                             |  | 7.5 hp    |
|                                                                                                                        | 550-600 V AC | 5 hp                             |  | 10 hp     |
| Short-circuit protection device for contactors<br>without thermal overload relay - motor protection excluded           |              |                                  |  |           |
| Fuse rating                                                                                                            | 600 V        | 50 A                             |  |           |
| Fuse type                                                                                                              | 600 V        | Class J                          |  |           |

#### General technical data

| Contactor types                               | AC operated                        | LS05K..A                           | LS06K..A                            |
|-----------------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
|                                               | DC operated                        | LS05K..D                           |                                     |
| Rated insulation voltage Ui                   |                                    |                                    |                                     |
| acc. to IEC/EN 60947-4-1                      |                                    | 750 V                              |                                     |
| acc. to UL/CSA 60947-4-1                      |                                    | 600 V                              |                                     |
| Rated impulse withstand voltage Uimp          |                                    | 6 kV (1)                           |                                     |
| Ambient air temperature, close to contactor   |                                    |                                    |                                     |
| Operation                                     | Fitted with thermal overload relay | -25 ... +55 °C                     |                                     |
|                                               | Without thermal overload relay     | -40 ... +55 °C                     |                                     |
| Storage                                       |                                    | -55 ... +80 °C                     |                                     |
| Climatic withstand                            |                                    | Acc. to IEC 60947-1 Annex Q        |                                     |
| Maximum operating altitude (without derating) |                                    | 3000 m                             |                                     |
| Mechanical durability                         |                                    | 10 <sup>7</sup> operating cycles   |                                     |
| Electrical durability                         |                                    |                                    |                                     |
|                                               | AC-1 20 A                          | 210 000 operating cycles           | 260 000 operating cycles            |
|                                               | AC-3 400 V                         | 900 000 operating cycles (9 A) (2) | 800 000 operating cycles (12 A) (2) |
|                                               | AC-4 400 V                         | 30 000 operating cycles (9 A) (2)  | 35 000 operating cycles (9 A) (2)   |
| Resistance to shock                           |                                    | Half-sine                          |                                     |
| acc. to IEC/EN 60068-2-27                     |                                    | 25 g / 11 ms                       |                                     |
| acc. to IEC/EN 60947-1 Annex. Q               |                                    | Category E                         |                                     |
| Resistance to vibrations                      |                                    | Sinusoidal                         |                                     |
| acc. to IEC/EN 60068-2-6                      |                                    | 5 g / 3 ... 150 Hz                 |                                     |
| acc. to IEC/EN 60947-1 Annex. Q               |                                    | Category E                         |                                     |

(1) 2 mm clearance distance between contactor side wall and grounded metal parts of cabinet required

(2) Valid for 3-pole mini contactors only. Other ratings on request.

# LS05K, LS06K 3-pole and 4-pole mini contactors

## Technical data

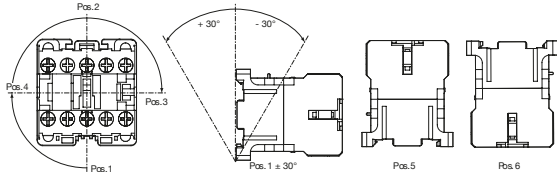
### Magnet system characteristics for LS05K...A, LS06K...A mini contactors

|                                                |                               |                               |          |
|------------------------------------------------|-------------------------------|-------------------------------|----------|
| Contactor types                                | AC operated                   | LS05K..A                      | LS06K..A |
| Coil operating limits acc. to IEC/EN 60947-4-1 | AC supply                     | 0.85 ... 1.1 x U <sub>c</sub> |          |
| AC control voltage                             |                               |                               |          |
| Rated control circuit voltage U <sub>c</sub>   |                               | See ordering tables           |          |
| Coil consumption                               | Average pull-in value (50 Hz) | 26 VA                         |          |
|                                                | Average pull-in value (60 Hz) | 32 VA                         |          |
|                                                | Average holding value (50 Hz) | 5.3 VA                        |          |
|                                                | Average holding value (60 Hz) | 4.5 VA                        |          |
| Drop-out voltage in % of U <sub>c</sub> min    |                               | 20 ... 75%                    |          |

### Magnet system characteristics for LS05K...D contactors

|                                                |                       |                               |
|------------------------------------------------|-----------------------|-------------------------------|
| Contactor types                                | DC operated           | <b>LS05K...D</b>              |
| Coil operating limits acc. to IEC/EN 60947-4-1 | DC supply             | 0.85 ... 1.1 x U <sub>c</sub> |
| DC control voltage                             |                       |                               |
| Rated control circuit voltage U <sub>c</sub>   |                       | See ordering tables           |
| Coil consumption                               | Average pull-in value | 4 W                           |
|                                                | Average holding value | 4 W                           |
| Drop-out voltage in % of U <sub>c</sub> min    |                       | 10 ... 65%                    |

### Mounting characteristics and conditions for use

|                              |                                                                                      |                 |                 |
|------------------------------|--------------------------------------------------------------------------------------|-----------------|-----------------|
| Contactor types              | AC operated                                                                          | <b>LS05K..A</b> | <b>LS06K..A</b> |
|                              | DC operated                                                                          | <b>LS05K..D</b> |                 |
| Mounting positions           |  |                 |                 |
| Mounting distances           | The contactors can be assembled side by side                                         |                 |                 |
| Fixing                       |                                                                                      |                 |                 |
| On rail acc. to IEC/EN 60715 | 35 x 7.5 mm or 35 x 15 mm                                                            |                 |                 |
| By screws (not supplied)     | 4 screws at the 4 angles - M4                                                        |                 |                 |

## LS05K, LS06K 3-pole and 4-pole mini contactors

### Technical data

#### Built-in auxiliary contact according to IEC

| Types                                                                 | Built-in auxiliary contacts      |              |
|-----------------------------------------------------------------------|----------------------------------|--------------|
| Standards                                                             | IEC/EN 60947-1, IEC/EN 60947-5-1 |              |
| Rated operational voltage U <sub>e</sub> max                          | 690 V AC, 440 V DC               |              |
| Rated frequency (without derating)                                    | DC or 50 / 60 Hz                 |              |
| Conventional free-air thermal current I <sub>th</sub> θ ≤ 55 °C       | 10 A                             |              |
| I <sub>e</sub> / Rated operational current AC-15                      | 240 V                            | 6 A          |
|                                                                       | 400 V                            | 4 A          |
|                                                                       | 500 V                            | 2.5 A        |
|                                                                       | 690 V                            | 1.5 A        |
| I <sub>e</sub> / Rated operational current DC-13                      | 24 V                             | 5 A          |
|                                                                       | 48 V                             | 2.5 A        |
|                                                                       | 125 V                            | 0.55 A       |
|                                                                       | 250 V                            | 0.3 A        |
|                                                                       | 440 V                            | 0.15 A       |
| Short-circuit protection device - fuse type gG                        | 10 A                             |              |
| Minimum switching capacity with failure rate acc. to IEC/EN 60947-5-4 | 17 V / 5 mA                      |              |
| Maximum electrical switching frequency                                | AC-15                            | 360 cycles/h |
|                                                                       | DC-13                            | 360 cycles/h |

#### Built-in auxiliary contact according to UL/CSA

| Types                       | Built-in auxiliary contacts      |  |
|-----------------------------|----------------------------------|--|
| Standards                   | UL/CSA 60947-1, UL/CSA 60947-5-1 |  |
| Maximum operational voltage | 600 V AC                         |  |
| Pilot duty                  | A600, Q600                       |  |

#### Connection

|                                                                                                                         |                                                                                                                                            |                      |  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| Contactor types                                                                                                         | AC operated                                                                                                                                | LS05K...A, LS06K...A |  |
|                                                                                                                         | DC operated                                                                                                                                | LS05K...D            |  |
| Terminals                                                                                                               | <div></div> <div>Screw terminals with cable clamp</div> |                      |  |
| Connection capacity                                                                                                     |                                                                                                                                            |                      |  |
| Main conductors (poles + built-in auxiliary terminals)                                                                  |                                                                                                                                            |                      |  |
| <div></div> Rigid: solid             | 1 x                                                                                                                                        | 0.75 ... 4 mm²       |  |
| <div></div>                          | 2 x                                                                                                                                        | 0.75 ... 2.5 mm²     |  |
| <div></div> Flexible without ferrule | 1 or 2 x                                                                                                                                   | 0.75 ... 2.5 mm²     |  |
| <div></div> Flexible with ferrule    | 1 x                                                                                                                                        | 0.75 ... 2.5 mm²     |  |
| <div></div> (insulated or not)       | 2 x                                                                                                                                        | 0.75 ... 1.5 mm²     |  |
| Connection capacity acc. to UL/CSA                                                                                      | 1 or 2 x                                                                                                                                   | AWG 12 ... 18        |  |
| Stripping length                                                                                                        | 9 mm                                                                                                                                       |                      |  |
| Tightening torques                                                                                                      | 0.8 ... 1.0 Nm / 7 lb.in                                                                                                                   |                      |  |
| Coil terminals                                                                                                          |                                                                                                                                            |                      |  |
| <div></div> Rigid: solid             | 1 or 2 x                                                                                                                                   | 0.75 ... 2.5 mm²     |  |
| <div></div> Flexible without ferrule | 1 or 2 x                                                                                                                                   | 0.75 ... 2.5 mm²     |  |
| <div></div> Flexible with ferrule    | 1 x                                                                                                                                        | 0.75 ... 2.5 mm²     |  |
| <div></div> (insulated or not)       | 2 x                                                                                                                                        | 0.75 ... 1.5 mm²     |  |
| Connection capacity acc. to UL/CSA                                                                                      | 1 or 2 x                                                                                                                                   | AWG 12 ... 18        |  |
| Stripping length                                                                                                        | 9 mm                                                                                                                                       |                      |  |
| Tightening torques                                                                                                      | 0.8 Nm / 7 lb.in                                                                                                                           |                      |  |
| Degree of protection acc. to IEC/EN 60947-1 and IEC/EN 60529                                                            |                                                                                                                                            |                      |  |
| All terminals                                                                                                           | IP20                                                                                                                                       |                      |  |
| Screw terminals                                                                                                         | (screws of unused terminals must be tightened)                                                                                             |                      |  |
| All terminals                                                                                                           | M3                                                                                                                                         |                      |  |
| Screwdriver type                                                                                                        | Flat Ø 5.5 mm / Pozidriv 2                                                                                                                 |                      |  |

## SH05K 4-pole mini contactor relays

### Technical data

#### Main pole – Utilization characteristics according to IEC

|                                                                                      |                              |                 |
|--------------------------------------------------------------------------------------|------------------------------|-----------------|
| Contactor types                                                                      | AC operated                  | <b>SH05K..A</b> |
|                                                                                      | DC operated                  | <b>SH05K..D</b> |
| Standards                                                                            | IEC/EN 60947-1, EN 60947-5-1 |                 |
| Rated operational voltage U <sub>e</sub> max                                         | 690 V AC, 440 V DC           |                 |
| Rated frequency (without derating)                                                   | DC or 50 / 60 Hz             |                 |
| Conventional free-air thermal current I <sub>th</sub> $\theta \leq 55^\circ\text{C}$ | 10 A                         |                 |
| I <sub>e</sub> / Rated operational current AC-15                                     | 240 V                        | 6 A             |
|                                                                                      | 400 V                        | 4 A             |
|                                                                                      | 500 V                        | 2.5 A           |
|                                                                                      | 690 V                        | 1.5 A           |
| I <sub>e</sub> / Rated operational current DC-13                                     | 24 V                         | 5 A             |
|                                                                                      | 48 V                         | 2.5 A           |
|                                                                                      | 125 V                        | 0.55 A          |
|                                                                                      | 250 V                        | 0.3 A           |
|                                                                                      | 440 V                        | 0.15 A          |
| Short-circuit protection device for contactors - fuse type gG                        | 10 A                         |                 |
| Minimum switching capacity with failure rate acc. to IEC 60947-5-4                   | 17 V / 5 mA                  |                 |
| Maximum electrical switching frequency                                               | AC-15                        | 600 cycles/h    |
|                                                                                      | DC-13                        | 600 cycles/h    |

#### Main pole – Utilization characteristics according to UL/NEMA/CSA

|                             |                                  |                 |
|-----------------------------|----------------------------------|-----------------|
| Contactor types             | AC operated                      | <b>SH05K..A</b> |
|                             | DC operated                      | <b>SH05K..D</b> |
| Standards                   | UL/CSA 60947-1, UL/CSA 60947-5-1 |                 |
| Maximum operational voltage | 600 V AC                         |                 |
| Pilot duty                  | A600, Q600                       |                 |

## SH05K 4-pole mini contactor relays

### Technical data

#### General technical data

|                                                  |                       |                                   |
|--------------------------------------------------|-----------------------|-----------------------------------|
| Contactor relay types                            | AC operated           | <b>SH05K..A</b>                   |
|                                                  | DC operated           | <b>SH05K..D</b>                   |
| Rated insulation voltage Ui                      |                       |                                   |
| acc. to IEC/EN 60947-5-1                         |                       | 750 V                             |
| acc. to UL/CSA 60947-5-1                         |                       | 600 V                             |
| Rated impulse withstand voltage Uimp             |                       | 6 kV                              |
| Electromagnetic compatibility                    |                       |                                   |
| Ambient air temperature close to contactor relay | Operation in free air | -40 ... +55 °C                    |
|                                                  | Storage               | -55 ... +80 °C                    |
| Climatic withstand                               |                       | Acc. to IEC / EN 60947-1 Annex. Q |
| Maximum operating altitude (without derating)    |                       | 3000 m                            |
| Mechanical durability                            |                       | 10 <sup>7</sup> operating cycles  |
| Resistance to shock                              |                       | Half-sine                         |
| acc. to IEC/EN 60068-2-27                        |                       | 25 g / 11ms                       |
| acc. to IEC/EN 60947-1 Annex. Q                  |                       | Category E                        |
| Resistance to vibrations                         |                       | Sinusoidal                        |
| acc. to IEC/EN 60068-2-6                         |                       | 5 g / 3 ... 150 Hz                |
| acc. to IEC/EN 60947-1 Annex. Q                  |                       | Category E                        |

#### Magnet system characteristics for SH05K..A mini contactor relays

|                                  |                               |                     |
|----------------------------------|-------------------------------|---------------------|
| Contactor relay types            | AC operated                   | <b>SH05K..A</b>     |
| Coil operating limits            | AC supply                     | 0.85 ... 1.1 x Uc   |
| acc. to IEC/EN 60947-5-1         |                               |                     |
| AC control voltage               |                               |                     |
| Rated control circuit voltage Uc |                               | See ordering tables |
| Coil consumption                 | Average pull-in value (50 Hz) | 26 VA               |
|                                  | Average pull-in value (60 Hz) | 32 VA               |
|                                  | Average holding value (50 Hz) | 5.3 VA              |
|                                  | Average holding value (60 Hz) | 4.5 VA              |
| Drop-out voltage in % of Uc min  |                               | 20 ... 65 %         |

#### Magnet system characteristics for SK05K..D mini contactor relays

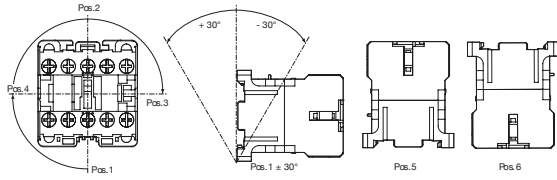
|                                                |                       |                     |
|------------------------------------------------|-----------------------|---------------------|
| Contactor relay types                          | DC operated           | <b>SH05K..D</b>     |
| Coil operating limits acc. to IEC/EN 60947-5-1 | DC supply             | 0.85 ... 1.1 x Uc   |
| DC control voltage                             |                       |                     |
| Rated control circuit voltage Uc               |                       | See ordering tables |
| Coil consumption                               | Average pull-in value | 4 W                 |
|                                                | Average holding value | 4 W                 |
| Drop-out voltage in % of Uc min                |                       | 10 ... 75 %         |



## SH05K 4-pole mini contactor relays

### Technical data

#### Mounting characteristics and conditions for use

|                    |                                                                                    |                               |
|--------------------|------------------------------------------------------------------------------------|-------------------------------|
| Contactor types    | AC operated                                                                        | <b>SH05K..A</b>               |
|                    | DC operated                                                                        | <b>SH05K..D</b>               |
| Mounting positions |  |                               |
| Mounting distances | The contactors can be assembled side by side.                                      |                               |
| Fixing             |                                                                                    |                               |
|                    | On rail acc. to IEC/EN 60715                                                       | 35 x 7.5 mm or 35 x 15 mm     |
|                    | By screws (not supplied)                                                           | 4 screws at the 4 angles - M4 |

#### Connection characteristics

|                                                                                                                              |             |                                                                                                                           |  |
|------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------|--|
| Contactor types                                                                                                              | AC operated | SH05K..A                                                                                                                  |  |
|                                                                                                                              | DC operated | SH05K..D                                                                                                                  |  |
| Terminals                                                                                                                    |             | <br><br>Screw terminals with cable clamp |  |
| Connection capacity                                                                                                          |             |                                                                                                                           |  |
| Auxiliary terminals                                                                                                          |             |                                                                                                                           |  |
|  Rigid: solid                             | 1 x         | 0.75 ... 4 mm <sup>2</sup>                                                                                                |  |
|  Flexible without ferrule                 | 2 x         | 0.75 ... 2.5 mm <sup>2</sup>                                                                                              |  |
|  Flexible with ferrule                    | 1 or 2 x    | 0.75 ... 2.5 mm <sup>2</sup>                                                                                              |  |
|  Flexible with ferrule (insulated or not) | 1 x         | 0.75 ... 2.5 mm <sup>2</sup>                                                                                              |  |
|                                                                                                                              | 2 x         | 0.75 ... 1.5 mm <sup>2</sup>                                                                                              |  |
| Connection capacity acc. to UL/CSA                                                                                           | 1 or 2 x    | AWG 12 ... 18                                                                                                             |  |
| Stripping length                                                                                                             |             | 9 mm                                                                                                                      |  |
| Tightening torques                                                                                                           |             | 0.8 ... 1.0 Nm / 7 lb.in                                                                                                  |  |
| Coil terminals                                                                                                               |             |                                                                                                                           |  |
|  Rigid: solid                             | 1 or 2 x    | 0.75 ... 2.5 mm <sup>2</sup>                                                                                              |  |
|  Flexible without ferrule                 | 1 or 2 x    | 0.75 ... 2.5 mm <sup>2</sup>                                                                                              |  |
|  Flexible with ferrule                    | 1 x         | 0.75 ... 2.5 mm <sup>2</sup>                                                                                              |  |
|  Flexible with ferrule (insulated or not) | 2 x         | 0.75 ... 1.5 mm <sup>2</sup>                                                                                              |  |
| Connection capacity acc. to UL/CSA                                                                                           | 1 or 2 x    | AWG 12 ... 18                                                                                                             |  |
| Stripping length                                                                                                             |             | 9 mm                                                                                                                      |  |
| Tightening torques                                                                                                           |             | 0.8 Nm / 7 lb.in                                                                                                          |  |
| Degree of protection acc. to IEC/EN 60947-1 and IEC/EN 60529                                                                 |             |                                                                                                                           |  |
| All terminals                                                                                                                |             | IP20                                                                                                                      |  |
| Screw terminals                                                                                                              |             | (screws of unused terminals must be tightened)                                                                            |  |
| All terminals                                                                                                                |             | M3                                                                                                                        |  |
| Screwdriver type                                                                                                             |             | Flat Ø 5.5 mm / Pozidriv 2                                                                                                |  |

## Accessories

### Technical data

#### Auxiliary contacts for front mounting and side mounting according to IEC

|                                                                       |                                  |              |
|-----------------------------------------------------------------------|----------------------------------|--------------|
| Types                                                                 | HS05K-F, HS05K-L                 |              |
| Standards                                                             | IEC/EN 60947-1, IEC/EN 60947-5-1 |              |
| Rated operational voltage U <sub>e</sub> max                          | 690 V AC                         |              |
| Rated frequency (without derating)                                    | DC or 50 / 60 Hz                 |              |
| Conventional free-air thermal current I <sub>th</sub> θ ≤ 55 °C       | 10 A                             |              |
| I <sub>e</sub> / Rated operational current AC-15                      | 240 V                            | 6 A          |
|                                                                       | 400 V                            | 4 A          |
|                                                                       | 500 V                            | 2.5 A        |
|                                                                       | 690 V                            | 1.5 A        |
| Short-circuit protection device - fuse type gG                        | 10 A                             |              |
| Minimum switching capacity with failure rate acc. to IEC/EN 60947-5-4 | 17 V / 5 mA                      |              |
| Maximum electrical switching frequency                                | AC-15                            | 360 cycles/h |
|                                                                       | DC-13                            | 360 cycles/h |

#### Auxiliary contacts for front mounting and side mounting according to UL/CSA

|                          |                                  |  |
|--------------------------|----------------------------------|--|
| Types                    | HS05K-F, HS05K-L                 |  |
| Standards                | UL/CSA 60947-1, UL/CSA 60947-5-1 |  |
| Max. operational voltage | 600 V AC                         |  |
| Pilot duty               | A600, Q600                       |  |

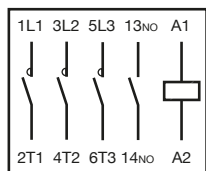
#### Connection characteristics

|                                                                                                              |                                                                                    |                  |  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------|--|
| Terminals                                                                                                    |  |                  |  |
|                                                                                                              | Screw terminals with cable clamp                                                   |                  |  |
| Connection capacity                                                                                          |                                                                                    |                  |  |
| Auxiliary terminals                                                                                          |                                                                                    |                  |  |
|  Rigid: solid             | 1 or 2 x                                                                           | 0.75 ... 2.5 mm² |  |
|  Flexible without ferrule | 1 or 2 x                                                                           | 0.75 ... 2.5 mm² |  |
|  Flexible with ferrule    | 1 x                                                                                | 0.75 ... 2.5 mm² |  |
|  (insulated or not)       | 2 x                                                                                | 0.75 ... 1.5 mm² |  |
| Connection capacity acc. to UL/CSA                                                                           | 1 or 2 x                                                                           | AWG 12 ... 18    |  |
| Stripping length                                                                                             | 9 mm                                                                               |                  |  |
| Tightening torques                                                                                           | 0.8 Nm / 7 lb.in                                                                   |                  |  |
| Degree of protection acc. to IEC/EN 60947-1 and IEC/EN 60529                                                 |                                                                                    |                  |  |
| Auxiliary terminals                                                                                          | IP20                                                                               |                  |  |
| Screw terminals                                                                                              | (screws of unused terminals must be tightened)                                     |                  |  |
| All terminals                                                                                                | M3.5                                                                               |                  |  |
| Screwdriver type                                                                                             | Flat Ø 5.5 mm / Pozidriv 2                                                         |                  |  |

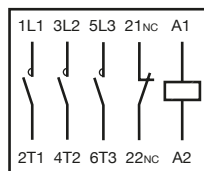
## LS..K mini contactors, SH..K 4-pole mini contactor relays and auxiliary contact blocks

### Terminal marking and positioning

#### LS..K 3-pole mini contactors

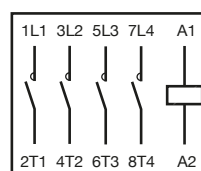


LS05K-30-10-..  
LS06K-30-10-..



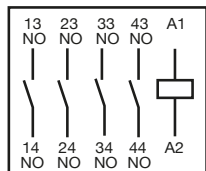
LS05K-30-01-..  
LS06K-30-01-..

#### LS..K 4-pole mini contactors

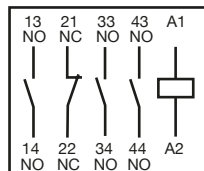


LS05K-40-00-..

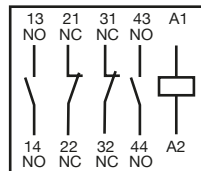
#### SH..K 4-pole mini contactor relays



SH05K-40-..



SH05K-31-..

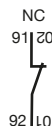


SH05K-22-..

#### HS05K-L.. 1-pole side-mounted auxiliary contact blocks

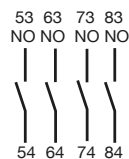


HS05K-L-10

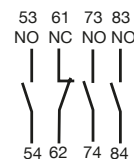


HS05K-L-01

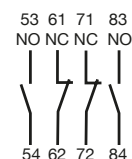
#### HS05K-F 4-pole front-mounted auxiliary contact blocks



HS05K-F-40

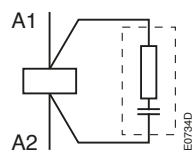


HS05K-F-31

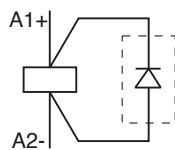


HS05K-F-22

#### EB05K Surge suppressors



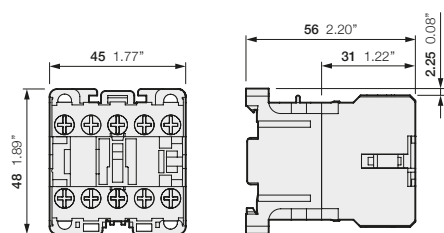
R/C  
EB05K-1  
EB05K-2



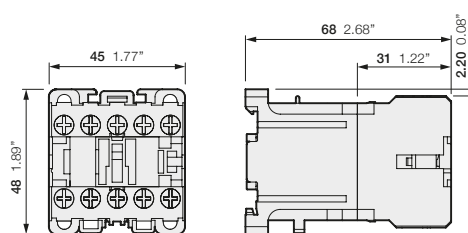
Diode  
EB05K-3

## LS..K mini contactors and SH..K mini contactor relays

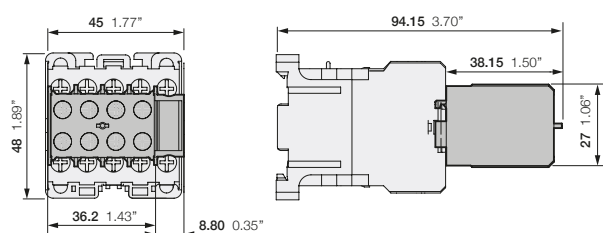
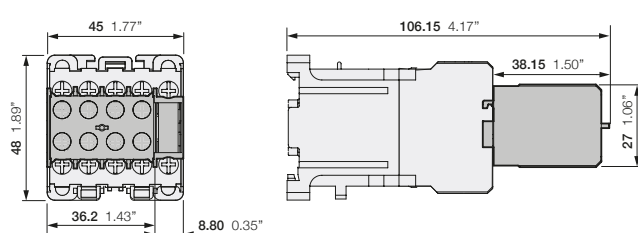
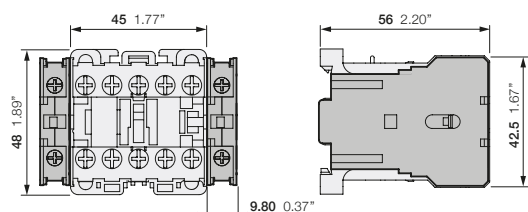
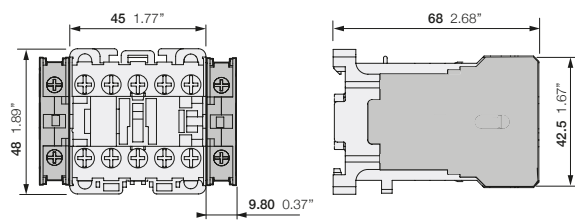
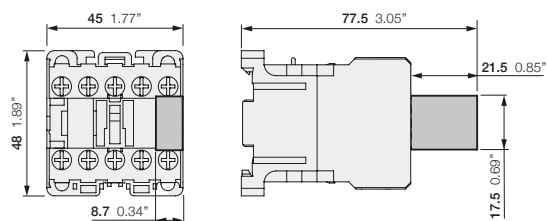
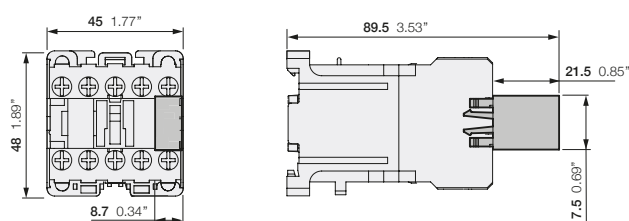
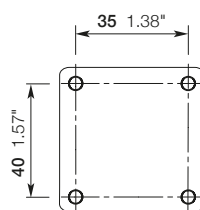
### Dimensions



LS05K..A, LS06K..A, SH05K..A



LS05K..D, SH05K..D


LS05K..A, LS06K..A, SH05K..A  
+ HS05K-F 4-pole auxiliary contact block

LS05K..D, SH05K..D  
+ HS05K-F 4-pole auxiliary contact block

LS05K..A, LS06K..A, SH05K..A  
+ HS05K-L 1-pole auxiliary contact block

LS05K..D, SH05K..D  
+ HS05K-L 1-pole auxiliary contact block

LS05K..A, LS06K..A, SH05K..A  
+ EB05K surge suppressor

LS05K..D, SH05K..D  
+ EB05K surge suppressor


Drilling plan

# AEG

# Elettra



Via Lisbona 28A/5 - 35127 Padova  
049 8075544 - [info@elettra.it](mailto:info@elettra.it)  
[www.elettra.it](http://www.elettra.it)