

## LSD CONTACTORS FOR SWITCHING MOTORS AC3 – 3POLE, SIZE 00



LSDD...



LSDD...-PLC

### SCHRACK-INFO

Auxiliary contact block types LSZD... can be snapped on contactors LSDD.... Contactors for PLC cannot be extended by further auxiliary contacts. Suitable surge suppressor types LSZD0001 to LSZD0004.

| DESCRIPTION                        | COIL VOLTAGE | FREQU/REMARK             | ORDER NO. |
|------------------------------------|--------------|--------------------------|-----------|
| <b>SIZE 00 – TYPE LSDD</b>         |              |                          |           |
| Contactor AC3:3KW/400V, 1NO        | AC24V        | 50HZ                     | LSDD0710  |
| Contactor AC3:3KW/400V, 1NC*       | AC24V        | 50HZ                     | LSDD0720  |
| Contactor AC3:3KW/400V, 1NO        | AC110V       | 50HZ                     | LSDD0712  |
| Contactor AC3:3KW/400V, 1NC*       | AC110V       | 50HZ                     | LSDD0722  |
| Contactor AC3:3KW/400V, 1NO        | AC230V       | 50/60HZ                  | LSDD0713  |
| Contactor AC3:3KW/400V, 1NC*       | AC230V       | 50/60HZ                  | LSDD0723  |
| Contactor AC3:3KW/400V, 1NO        | DC24V        |                          | LSDD0715  |
| Contactor AC3:3KW/400V, 1NC*       | DC24V        |                          | LSDD0725  |
| Contactor AC3:4KW/400V, 1NO        | AC24V        | 50HZ                     | LSDD0910  |
| Contactor AC3:4KW/400V, 1NC*       | AC24V        | 50HZ                     | LSDD0920  |
| Contactor AC3:4KW/400V, 1NO        | AC110V       | 50HZ                     | LSDD0912  |
| Contactor AC3:4KW/400V, 1NC*       | AC110V       | 50HZ                     | LSDD0922  |
| Contactor AC3:4KW/400V, 1NO        | AC230V       | 50/60HZ                  | LSDD0913  |
| Contactor AC3:4KW/400V, 1NC*       | AC230V       | 50/60HZ                  | LSDD0923  |
| Contactor AC3:4KW/400V, 1NO        | DC24V        |                          | LSDD0915  |
| Contactor AC3:4KW/400V, 1NC*       | DC24V        |                          | LSDD0925  |
| Contactor AC3:5,5KW/400V, 1NO      | AC24V        | 50HZ                     | LSDD1210  |
| Contactor AC3:5,5KW/400V, 1NC*     | AC24V        | 50HZ                     | LSDD1220  |
| Contactor AC3:5,5KW/400V, 1NO      | AC110V       | 50HZ                     | LSDD1212  |
| Contactor AC3:5,5KW/400V, 1NC*     | AC110V       | 50HZ                     | LSDD1222  |
| Contactor AC3:5,5KW/400V, 1NO      | AC230V       | 50/60HZ                  | LSDD1213  |
| Contactor AC3:5,5KW/400V, 1NC*     | AC230V       | 50/60HZ                  | LSDD1223  |
| Contactor AC3:5,5KW/400V, 1NO      | DC24V        |                          | LSDD1215  |
| Contactor AC3:5,5KW/400V, 1NC*     | DC24V        |                          | LSDD1225  |
| <b>SIZE 00 – TYPE LSDD FOR PLC</b> |              |                          |           |
| Contactor AC3:3KW/400V, 1NO        | DC17-30V     | no further aux. contacts | LSDD071G  |
| Contactor AC3:3KW/400V, 1NC        | DC17-30V     | no further aux. contacts | LSDD072G  |
| Contactor AC3:4KW/400V, 1NO        | DC17-30V     | no further aux. contacts | LSDD091G  |
| Contactor AC3:4KW/400V, 1NC        | DC17-30V     | no further aux. contacts | LSDD092G  |
| Contactor AC3:5,5KW/400V, 1NO      | DC17-30V     | no further aux. contacts | LSDD121G  |
| Contactor AC3:5,5KW/400V, 1NC      | DC17-30V     | no further aux. contacts | LSDD122G  |

\* Only auxiliary contact block type LSZDH5.. and LSZD05.. possible

## ■ LSD CONTACTORS FOR SWITCHING MOTORS AC3 – 3POLE, SIZE 0



LSD0...

### ■ SCHRACK-INFO

Auxiliary contact and contact block types LSZ0D... can be snapped on. Suitable surge suppressor types LSZD0005, LSZD0006 and LSZ00001 to LSZ00003.

| DESCRIPTION                       | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|-----------------------------------|--------------|--------------|-----------|
| <b>SIZE 0 – TYPE LSD0</b>         |              |              |           |
| Contactor AC3:4KW/400V            | AC24V        | 50HZ         | LSD00930  |
| Contactor AC3:4KW/400V            | DC24V        |              | LSD00935  |
| Contactor AC3:4KW/400V            | AC110V       | 50HZ         | LSD00932  |
| Contactor AC3:4KW/400V            | AC230V       | 50/60HZ      | LSD00933  |
| Contactor AC3:5,5KW/400V          | AC24V        | 50HZ         | LSD01230  |
| Contactor AC3:5,5KW/400V          | DC24V        |              | LSD01235  |
| Contactor AC3:5,5KW/400V          | AC110V       | 50HZ         | LSD01232  |
| Contactor AC3:5,5KW/400V          | AC230V       | 50/60HZ      | LSD01233  |
| Contactor AC3:7,5KW/400V          | AC24V        | 50HZ         | LSD01730  |
| Contactor AC3:7,5KW/400V          | DC24V        |              | LSD01735  |
| Contactor AC3:7,5KW/400V          | AC110V       | 50HZ         | LSD01732  |
| Contactor AC3:7,5KW/400V          | AC230V       | 50/60HZ      | LSD01733  |
| Contactor AC3:7,5KW/400V          | AC400V       | 50HZ         | LSD01734  |
| Contactor AC3:11KW/400V           | AC24V        | 50HZ         | LSD02530  |
| Contactor AC3:11KW/400V           | DC24V        |              | LSD02535  |
| Contactor AC3:11KW/400V           | AC110V       | 50HZ         | LSD02532  |
| Contactor AC3:11KW/400V           | AC230V       | 50/60HZ      | LSD02533  |
| <b>SIZE 0 – TYPE LSS0 FOR PLC</b> |              |              |           |
| Contactor AC3,5,5KW/400V*         | DC17-30V     |              | LSS0123H  |
| Contactor AC3:7,5KW/400V*         | DC17-30V     |              | LSS0173H  |
| Contactor AC3:11KW/400V*          | DC17-30V     |              | LSS0253H  |

\* Max. 2 pcs. of auxiliary contact type LSZ0D0.. or LSZ0D9.. possible

## ■ LSD CONTACTORS FOR SWITCHING MOTORS AC3 – 3POLE, SIZE 2



LSD2...

### ■ SCHRACK-INFO

Auxiliary contact and contact block types LSZ0D... can be snapped on. Suitable surge suppressor types LSZ20001 for AC 230V.

| DESCRIPTION               | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|---------------------------|--------------|--------------|-----------|
| <b>SIZE 2 – TYPE LSD2</b> |              |              |           |
| Contact AC3:15KW/400V     | AC24V        | 50HZ         | LSD23230  |
| Contact AC3:15KW/400V     | DC24V        |              | LSD23235  |
| Contact AC3:15KW/400V     | AC110V       | 50HZ         | LSD23232  |
| Contact AC3:15KW/400V     | AC230V       | 50/60HZ      | LSD23233  |
| Contact AC3:18,5KW/400V   | AC24V        | 50HZ         | LSD24030  |
| Contact AC3:18,5KW/400V   | DC24V        |              | LSD24035  |
| Contact AC3:18,5KW/400V   | AC110V       | 50HZ         | LSD24032  |
| Contact AC3:18,5KW/400V   | AC230V       | 50/60HZ      | LSD24033  |
| Contact AC3:22KW/400V     | AC24V        | 50HZ         | LSD25030  |
| Contact AC3:22KW/400V     | DC24V        |              | LSD25035  |
| Contact AC3:22KW/400V     | AC110V       | 50HZ         | LSD25032  |
| Contact AC3:22KW/400V     | AC230V       | 50/60HZ      | LSD25033  |

## ■ LSD CONTACTORS FOR SWITCHING MOTORS AC3 – 3POLE, SIZE 3



LSD3...

### ■ SCHRACK-INFO

Auxiliary contact and contact block types LSZ0D... and LSZ3D... can be snapped on. Suitable surge suppressor types LSZ20001 for AC 230V.

| DESCRIPTION                    | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|--------------------------------|--------------|--------------|-----------|
| <b>SIZE 3 – TYPE LSD3</b>      |              |              |           |
| Contact AC3:30KW/400V          | AC24V        | 50HZ         | LSD36530  |
| Contact AC3:30KW/400V          | DC24V        |              | LSD36535  |
| Contact AC3:30KW/400V          | AC110V       | 50HZ         | LSD36532  |
| Contact AC3:30KW/400V          | AC230V       | 50/60HZ      | LSD36533  |
| Contact AC3:30KW/400V, 2NO+2NC | AC230V       | 50HZ         | LSD36553  |
| Contact AC3:37KW/400V          | AC24V        | 50HZ         | LSD38030  |
| Contact AC3:37KW/400V          | DC24V        |              | LSD38035  |
| Contact AC3:37KW/400V, 2NO+2NC | AC24V        | 50HZ         | LSD38050  |
| Contact AC3:37KW/400V          | AC110V       | 50HZ         | LSD38032  |
| Contact AC3:37KW/400V, 2NO+2NC | AC110V       | 50HZ         | LSD38052  |
| Contact AC3:37KW/400V          | AC230V       | 50/60HZ      | LSD38033  |
| Contact AC3:45KW/400V          | AC24V        | 50HZ         | LSD39530  |
| Contact AC3:45KW/400V          | DC24V        |              | LSD39535  |
| Contact AC3:45KW/400V          | AC230V       | 50/60HZ      | LSD39533  |
| Contact AC3:45KW/400V, 2NO+2NC | AC230V       | 50/60HZ      | LSD39553  |

## ■ LSD CONTACTORS FOR SWITCHING MOTORS AC3 – 3POLE, SIZE 6/10/12



LSD6115F



LSD6155F



LSDE305F

### ■ SCHRACK-INFO

LSD6115F fitted with box terminals up to 70 mm<sup>2</sup>, all other types without box terminals. Those box terminals are deliverable on request. Auxiliary contact and contact block types LSZ0D... and LSZ3D... can be snapped on. Suitable surge suppressor type LSZ60001.

| DESCRIPTION                                           | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|-------------------------------------------------------|--------------|--------------|-----------|
| <b>SIZE 6 – TYPE LSD6</b>                             |              |              |           |
| Contactor AC3:55KW/400V, 2NO+2NC (with box terminals) | UC220-240V   | 40-60HZ      | LSD6115F  |
| Contactor AC3:75KW/400V, 2NO+2NC                      | UC220-240V   | 40-60HZ      | LSD6155F  |
| Contactor AC3:90KW/400V, 2NO+2NC                      | UC220-240V   | 40-60HZ      | LSD6195F  |
| <b>SIZE 10 – TYPE LSDE</b>                            |              |              |           |
| Contactor AC3:110KW/400V, 2NO+2NC                     | UC220-240V   | 40-60HZ      | LSDE225F  |
| Contactor AC3:132KW/400V, 2NO+2NC                     | UC220-240V   | 40-60HZ      | LSDE265F  |
| Contactor AC3:160KW/400V, 2NO+2NC                     | UC220-240V   | 40-60HZ      | LSDE305F  |
| <b>SIZE 12 – TYPE LSDG</b>                            |              |              |           |
| Contactor AC3:200KW/400V, 2NO+2NC                     | UC220-240V   | 40-60HZ      | LSDG415F  |
| Contactor AC3:250KW/400V, 2NO+2NC                     | UC220-240V   | 40-60HZ      | LSDG515F  |

## ■ LSD VACUUM CONTACTORS AC3 – 3POLE, SIZE 14



LSDH...

### ■ SCHRACK-INFO

Contactors cannot be extended by further auxiliary contacts. Surge suppressor by means of a varistor circuit is included in the scope of supply.

| DESCRIPTION                        | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|------------------------------------|--------------|--------------|-----------|
| <b>SIZE 14 – TYPE LSDH</b>         |              |              |           |
| Contactor AC3:335KW/400V, 4NO+4NC  | UC200-240V   | 50HZ         | LSDH63G3  |
| Contactor AC3:335KW/1000V, 4NO+4NC | UC200-240V   | 50HZ         | LSDH64G3  |
| Contactor AC3:450KW/400V, 4NO+4NC  | UC200-240V   | 50HZ         | LSDH82G3  |
| Contactor AC3:450KW/1000V, 4NO+4NC | UC200-240V   | 50HZ         | LSDH83G3  |

## LSW REVERSING CONTACTOR ASSEMBLIES AC3, SIZE 00/0/2/3



LSWD...



LSW0...

### SCHRACK-INFO

For higher ratings or customer assembly see components listed on pages onwards.

| DESCRIPTION                         | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|-------------------------------------|--------------|--------------|-----------|
| <b>SIZE 00 – TYPE LSWD</b>          |              |              |           |
| Reversing Assembly AC3, 3kW/400V    | 230V         | 50/60HZ      | LSWD0733  |
| Reversing Assembly AC3, 4kW/400V    | 230V         | 50/60HZ      | LSWD0933  |
| Reversing Assembly AC3, 5,5kW/400V  | 230V         | 50/60HZ      | LSWD1233  |
| <b>SIZE 0 – TYPE LSW0</b>           |              |              |           |
| Reversing Assembly AC3, 5,5kW/400V  | 230V         | 50/60HZ      | LSW01233  |
| Reversing Assembly AC3, 7,5kW/400V  | 230V         | 50/60HZ      | LSW01733  |
| Reversing Assembly AC3, 11kW/400V   | 230V         | 50/60HZ      | LSW02533  |
| <b>SIZE 2 – TYPE LSW2</b>           |              |              |           |
| Reversing Assembly AC3, 15kW/400V   | 230V         | 50/60HZ      | LSW23233  |
| Reversing Assembly AC3, 18,5kW/400V | 230V         | 50/60HZ      | LSW24033  |
| Reversing Assembly AC3, 22kW/400V   | 230V         | 50/60HZ      | LSW25033  |
| <b>SIZE 3 – TYPE LSW3</b>           |              |              |           |
| Reversing Assembly AC3, 30kW/400V   | 230V         | 50/60HZ      | LSW36533  |
| Reversing Assembly AC3, 37kW/400V   | 230V         | 50/60HZ      | LSW38033  |
| Reversing Assembly AC3, 45kW/400V   | 230V         | 50/60HZ      | LSW39533  |

## LSY WYE-DELTA CONTACTOR ASSEMBLIES AC3, SIZE 00/0/2



LSY03233

### SCHRACK-INFO

For higher ratings or customer assembly see components listed on pages onwards.

| DESCRIPTION                              | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|------------------------------------------|--------------|--------------|-----------|
| <b>SIZE 00 – TYPE LSYD</b>               |              |              |           |
| WYE-Delta Assembly AC3, up to 7,5kW/400V | 230V         | 50/60HZ      | LSYD1733  |
| <b>SIZE 0 – TYPE LSY0</b>                |              |              |           |
| WYE-Delta Assembly AC3, up to 15kW/400V  | 230V         | 50/60HZ      | LSY03233  |
| <b>SIZE 2 – TYPE LSY2</b>                |              |              |           |
| WYE-Delta Assembly AC3, up to 22kW/400V  | 230V         | 50/60HZ      | LSY25033  |

## LSR CONTACTORS FOR SWITCHING AC1 LOADS – 4POLE, SIZE 00/0



LSR0...

### SCHRACK-INFO

Auxiliary contacts, contact blocks and surge suppressors are identical to those for contactors LSD of same size.

| DESCRIPTION                | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|----------------------------|--------------|--------------|-----------|
| <b>SIZE 00 – TYPE LSRD</b> |              |              |           |
| Contactor AC1:18A/690V     | AC24V        | 50/60HZ      | LSRD1840  |
| Contactor AC1:18A/690V     | DC24V        |              | LSRD1845  |
| Contactor AC1:18A/690V     | AC230V       | 50/60HZ      | LSRD1843  |
| Contactor AC1:22A/690V     | AC24V        | 50/60HZ      | LSRD2240  |
| Contactor AC1:22A/690V     | DC24V        |              | LSRD2245  |
| Contactor AC1:22A/690V     | AC230V       | 50/60HZ      | LSRD2243  |
| <b>SIZE 0 – TYPE LSRO</b>  |              |              |           |
| Contactor AC1:35A/690V     | AC24V        | 50HZ         | LSR03540  |
| Contactor AC1:35A/690V     | DC24V        |              | LSR03545  |
| Contactor AC1:35A/690V     | AC230V       | 50/60HZ      | LSR03543  |
| Contactor AC1:40A/690V     | AC24V        | 50HZ         | LSR04040  |
| Contactor AC1:40A/690V     | DC24V        |              | LSR04045  |
| Contactor AC1:40A/690V     | AC230V       | 50/60HZ      | LSR04043  |

## LSR CONTACTORS FOR SWITCHING AC1 LOADS – 4POLE, SIZE 2/3



LSR3...

### SCHRACK-INFO

Auxiliary contacts, contact blocks and surge suppressors are identical to those for contactors LSD of same size.

| DESCRIPTION               | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|---------------------------|--------------|--------------|-----------|
| <b>SIZE 2 – TYPE LSR2</b> |              |              |           |
| Contactor AC1:60A/690V    | AC24V        | 50HZ         | LSR26040  |
| Contactor AC1:60A/690V    | DC24V        |              | LSR26045  |
| Contactor AC1:60A/690V    | AC230V       | 50/60HZ      | LSR26043  |
| <b>SIZE 3 – TYPE LSR3</b> |              |              |           |
| Contactor AC1:110A/690V   | AC24V        | 50HZ         | LSR31140  |
| Contactor AC1:110A/690V   | DC24V        |              | LSR31145  |
| Contactor AC1:110A/690V   | AC230V       | 50/60HZ      | LSR31143  |
| Contactor AC1:140A/690V   | AC24V        | 50HZ         | LSR31440  |
| Contactor AC1:140A/690V   | DC24V        |              | LSR31445  |
| Contactor AC1:140A/690V   | AC230V       | 50/60HZ      | LSR31443  |

## LSK CAPACITOR SWITCHING CONTACTORS



LSKD17B3

### SCHRACK-INFO

- Technical data according to IEC 60 947; EN 60 947 (VDE 0660)
- The contactors are suitable for use in any climate
- They are finger-safe according to EN 50274

### TECHNICAL DATA

The LSK capacitor contactors are special version of the size 00-3 ALEA contactors. The capacitors are precharged by means of the mounted leading NO contacts and resistors; only then do the main contacts close. This prevents disturbances in the network and welding of the contactors. Only discharged capacitors are permitted to be switched on with capacitor contactors. The auxiliary contact block which is snapped onto the capacitor contactor contains the three leading NO contacts and in the case of size 00 one standard NC contact and in the case of size 0 and size 3 one standard NO contact, which is unassigned. Size 500 also contains another unassigned NO contact in the basic unit. In addition, a 2-pole auxiliary contact block can be mounted laterally on the LSK3 capacitor contactors (1 NO + 1 NC versions) type LSZ0D711. The fitting of auxiliary contacts for LSKD and LSKO is not expandable.

| CAPACITOR RATING 400V/INCLUDED AUXILIARY CONTACTS | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|---------------------------------------------------|--------------|--------------|-----------|
| <b>SIZE 00</b>                                    |              |              |           |
| 12,5 kVar/1 NO + 1 NC                             | AC230V       | 50/50Hz      | LSKD17B3  |
| <b>SIZE 0</b>                                     |              |              |           |
| 25 kVar/1 NO                                      | AC230V       | 50/50Hz      | LSK03213  |
| <b>SIZE 3</b>                                     |              |              |           |
| 50 kVar/1 NO                                      | AC230V       | 50/50Hz      | LSK36213  |

## LA3K CAPACITOR SWITCHING CONTACTORS



LA3K181

### SCHRACK-INFO

- For use in detuned or non-detuned capacitor units.
- Technical data according to EN 60 947-4-1; EN 60 947-5-1; VDE 0660

### TECHNICAL DATA

Specification: The capacitor switching contactors K3...K are suitable for switching low-inductive and low-loss capacitors in capacitor banks (IEC70 & 831, VDE 0560) with and without reactors. Capacitor switching contactors are fitted with early make contacts and damping resistors to reduce the value of the make current to  $<70 \times I_e$ .

Operating conditions: Capacitor switching contactors are protected against contact welding for a prospective make current of  $200 \times I_e$ . Fuse rating approx.  $1,6$  to  $2,5 \times I_e$ , type gL/gG.

| CAPACITOR RATING 400V/INCLUDED AUXILIARY CONTACTS | COIL VOLTAGE | FREQU/REMARK | ORDER NO. |
|---------------------------------------------------|--------------|--------------|-----------|
| 12,5 kVar/1 NO                                    | AC220-240V   | 50Hz         | LA3K1813  |
| 12,5 kVar/1 NC                                    | AC220-240V   | 50Hz         | LA3K1823  |
| 20 kVar/ 0                                        | AC220-240V   | 50Hz         | LA3K2433  |
| 25 kVar/ 0                                        | AC220-240V   | 50Hz         | LA3K3233  |
| 33,3 kVar/ 0                                      | AC220-240V   | 50Hz         | LA3K5033  |
| 50 kVar/ 0                                        | AC220-240V   | 50Hz         | LA3K6233  |
| 60 kVar/ 0                                        | AC220-240V   | 50Hz         | LA3K7433  |
| 75 kVar/ 0                                        | AC220-240V   | 50Hz         | LA3K9033  |
| 90 kVar/ 0                                        | AC220-240V   | 50Hz         | LA3K1133  |

## AUXILIARY CONTACTS FOR CAPACITOR SWITCHING CONTACTORS LA3K



LA1901..

| CAPACITOR RATING 400V/INCLUDED AUXILIARY CONTACTS                | COIL VOLTAGE | FREQU/REMARK      | ORDER NO. |
|------------------------------------------------------------------|--------------|-------------------|-----------|
| <b>AUXILIARY CONTACTS FOR CAPACITY SWITCHING CONTACTORS LA3K</b> |              |                   |           |
| AUXILIARY CONTACT for LA3K18, 1NC, snap on front                 | 6A/230VAC    | DIN EN 5005/50012 | LA190135  |
| AUXILIARY CONTACT for LA3K24...11, 1NO+1NC, side mounted         | 3A/230VAC    | DIN EN 5005       | LA190134  |
| AUXILIARY CONTACT for LA3K...., 1NO, snap on front               | 3A/230VAC    | DIN EN 5005/50012 | LA190100  |
| AUXILIARY CONTACT for LA3K...., 1NC, snap on front               | 3A/230VAC    | DIN EN 5005/50012 | LA190101  |

## LSHD AUXILIARY CONTACTORS AC15 – 4POLE, SIZE 00



LSHD...



LSHD....-PLC

### SCHRACK-INFO

Auxiliary contact types LSZD05.. and LSZDH5.. can be snapped on. Contactors for PLC cannot be extended by further auxiliary contacts. Suitable surge suppressor types LSZD0001 to LSZD0004.

| DESCRIPTION                                           | COIL VOLTAGE | FREQU/REMARK             | ORDER NO. |
|-------------------------------------------------------|--------------|--------------------------|-----------|
| <b>SIZE 00 – TYPE LSHD</b>                            |              |                          |           |
| Contactor AC15: 6A/230V, 4NO                          | AC24V        | 50HZ                     | LSHD0670  |
| Contactor AC15: 6A/230V, 4NO                          | DC24V        |                          | LSHD0675  |
| Contactor AC15: 6A/230V, 4NO                          | AC230V       | 50/60HZ                  | LSHD0673  |
| Contactor AC15: 6A/230V, 3NO+1NC                      | AC24V        | 50HZ                     | LSHD0680  |
| Contactor AC15: 6A/230V, 3NO+1NC                      | DC24V        |                          | LSHD0685  |
| Contactor AC15: 6A/230V, 3NO+1NC                      | AC230V       | 50/60HZ                  | LSHD0683  |
| Contactor AC15: 6A/230V, 2NO+2NC                      | AC24V        | 50HZ                     | LSHD0690  |
| Contactor AC15: 6A/230V, 2NO+2NC                      | DC24V        |                          | LSHD0695  |
| Contactor AC15: 6A/230V, 2NO+2NC                      | AC230V       | 50/60HZ                  | LSHD0693  |
| <b>SIZE 00 – TYPE LSHD FOR PLC</b>                    |              |                          |           |
| Contactor*, AC15: 6A/230V, 4NO                        | DC17-30V     | no further aux. contacts | LSHD067N  |
| Contactor with diode assembly, AC15: 6A/230V, 4NO     | DC17-30V     | no further aux. contacts | LSHD067G  |
| Contactor*, AC15: 6A/230V, 3NO+1NC                    | DC17-30V     | no further aux. contacts | LSHD068N  |
| Contactor with diode assembly, AC15: 6A/230V, 3NO+1NC | DC17-30V     | no further aux. contacts | LSHD068G  |
| Contactor*, AC15: 6A/230V, 2NO+2NC                    | DC17-30V     | no further aux. contacts | LSHD069N  |
| Contactor with diode assembly, AC15: 6A/230V, 2NO+2NC | DC17-30V     | no further aux. contacts | LSHD069G  |

\* Varistors or surge suppressor diodes can be plugged in

## AUXILIARY CONTACTS AND CONTACT BLOCKS FOR LSDD OR LSSD, SIZE 00



LSZDD213



LSZD0510

| DESCRIPTION                                                      | FREQU/REMARK | ORDER NO. |
|------------------------------------------------------------------|--------------|-----------|
| Auxiliary Contact Block for size 00, 1NO, cable entry from below | DIN EN 50005 | LSZD0510  |
| Auxiliary Contact Block for size 00, 1NC, cable entry from below | DIN EN 50005 | LSZD0501  |
| Auxiliary Contact Block for size 00, 1NC <sup>1)</sup>           | DIN EN 50012 | LSZDD201  |
| Auxiliary Contact Block for size 00, 1NO+2NC <sup>1)</sup>       | DIN EN 50012 | LSZDD212  |
| Auxiliary Contact Block for size 00, 1NO+3NC <sup>1)</sup>       | DIN EN 50012 | LSZDD213  |
| Auxiliary Contact Block for size 00, 2NO+2NC <sup>1)</sup>       | DIN EN 50012 | LSZDD222  |

<sup>1)</sup> Auxiliary contact blocks for use with contactors type LSDD.... or LSSD.... with one NO included, for contactors type LSDD.... or LSSD.... with one NC included use auxiliary contact blocks type LSZDH5.. (see item below)

## AUXILIARY CONTACTS AND CONTACT BLOCKS FOR LSDD, LSSD OR LSHD, SIZE 00



LSZDH522



LSZD0510

| DESCRIPTION                                                      | FREQU/REMARK | ORDER NO. |
|------------------------------------------------------------------|--------------|-----------|
| Auxiliary Contact Block for size 00, 1NO, cable entry from below | DIN EN 50005 | LSZD0510  |
| Auxiliary Contact Block for size 00, 1NC, cable entry from below | DIN EN 50005 | LSZD0501  |
| Auxiliary Contact Block for size 00, 4NO <sup>2)</sup>           | DIN EN 50005 | LSZDH540  |
| Auxiliary Contact Block for size 00, 3NO+1NC <sup>2)</sup>       | DIN EN 50005 | LSZDH531  |
| Auxiliary Contact Block for size 00, 2NO+2NC <sup>2)</sup>       | DIN EN 50005 | LSZDH522  |

<sup>2)</sup> Auxiliary contact blocks for use with contactors type LSDD.... or LSSD.... with one NC included, for contactors type LSDD.... or LSSD.... with one NO included use auxiliary contact blocks type LSZDD2.. (see item above)

## PARALLEL CONNECTORS (STAR JUMPER) AND FEED TERMINAL, SIZE 00



LSZDY002



LSZDD003



LSZDD001

| DESCRIPTION                                                                     | ORDER NO. |
|---------------------------------------------------------------------------------|-----------|
| <b>PARALLEL CONNECTOR</b>                                                       |           |
| Parallel connector, 25mm <sup>2</sup> for size 00, 3pol. + terminal             | LSZDD003  |
| Parallel connector, 25mm <sup>2</sup> for size 00, 4pol. + terminal             | LSZDD004  |
| Parallel connector, star jumper for size 00, 3pol. (can be shortened by 1 pole) | LSZDY002  |
| <b>FEED TERMINAL</b>                                                            |           |
| Feed terminal, 6mm <sup>2</sup> for size 00, 3pol. + 3 terminals                | LSZDD001  |

## ■ WIRING SETS\*, MECHANICAL INTERLOCK AND CONNECTION CLIPS, SIZE 00



LSZDW002

### ■ SCHRACK-INFO

By using the interlock link, the overall width of the e.g. reversing assembly is not increased (0 mm clearance between the contactors).

| DESCRIPTION                                             | ORDER NO. |
|---------------------------------------------------------|-----------|
| Wiring set for reversing contactor assemblies, size 00* | LSZDW001  |
| Wiring set for WYE-Delta contactor assemblies, size 00  | LSZDY001  |
| Connection clips for two contactors, size 00*           | LSZDW002  |

\* Contains two connection clips and one mechanical interlock link

## ■ WYE-DELTA TIMERS



LSZD0102

### ■ SCHRACK-INFO

Timers have a fixed dead interval of 50 ms (between Wye- and Delta-state).

| DESCRIPTION                           | COIL VOLTAGE     | FREQU/REMARK | ORDER NO. |
|---------------------------------------|------------------|--------------|-----------|
| WYE-Delta timer, 20s (timedelay -20s) | 24/240VAC 24 VDC | 50/60Hz      | LSZD0101  |
| WYE-Delta timer, 60s (timedelay -60s) | 24/240VAC 24 VDC | 50/60Hz      | LSZD0102  |

## ■ CONNECTION LINKS FOR CONTACTORS AND MOTOR PROTECTION SWITCHES, SIZE 00



LSZDD005

| DESCRIPTION                                                                | COIL VOLTAGE   | ORDER NO. |
|----------------------------------------------------------------------------|----------------|-----------|
| Connection link for contactor size 00 and motor protection switch, size 00 | AC-DC operated | LSZDD005  |
| Connection link for contactor size 00 and motor protection switch, size 0  | AC-DC operated | LSZDD006  |

## ■ SOLDER PIN ADAPTER, SIZE 00



LSZDD002

| DESCRIPTION                    | ORDER NO. |
|--------------------------------|-----------|
| Solder pin adapter for size 00 | LSZDD002  |

## ■ SURGE SUPPRESSORS (PLUG IN TYPE), SIZE 00



LSZD0004

| DESCRIPTION                        | COIL VOLTAGE           | ORDER NO. |
|------------------------------------|------------------------|-----------|
| Varistor for size 00               | AC24-48V; DC24-70V     | LSZD0001  |
| Varistor for size 00               | AC127-240V; DC150-250V | LSZD0002  |
| Surge suppressor for size 00       | AC127-240V; DC150-250V | LSZD0003  |
| Surge suppressor diode for size 00 | DC12-250V              | LSZD0004  |

## ■ AUXILIARY CONTACTS (SNAP ON FRONT), SIZE 0-12



LSZ0D001



LSZ0D010

| DESCRIPTION                                     | FREQU/REMARK       | ORDER NO. |
|-------------------------------------------------|--------------------|-----------|
| Auxiliary Contact for size 0-12, 1NC            | DIN EN 50005/50012 | LSZ0D001  |
| Auxiliary Contact for size 0-12, 1NO            | DIN EN 50005/50012 | LSZ0D010  |
| Auxiliary Contact for size 0-12, 1NC-delayed    | DIN EN 50005/50012 | LSZ0D901  |
| Auxiliary Contact for size 0-12, 1NO-early make | DIN EN 50005/50012 | LSZ0D910  |

## AUXILIARY CONTACT BLOCKS (SNAP ON FRONT), SIZE 0-12



LSZ0D122

| DESCRIPTION                                    | FREQU/REMARK | ORDER NO. |
|------------------------------------------------|--------------|-----------|
| Auxiliary Contact Block for size 0-12, 1NO+3NC | DIN EN 50012 | LSZ0D113  |
| Auxiliary Contact Block for size 0-12, 2NO+2NC | DIN EN 50012 | LSZ0D122  |
| Auxiliary Contact Block for size 0-12, 3NO+1NC | DIN EN 50012 | LSZ0D131  |
| Auxiliary Contact Block for size 0-12, 4NO     | DIN EN 50005 | LSZ0D140F |
| Auxiliary Contact Block for size 0-12, 3NO+1NC | DIN EN 50005 | LSZ0D131F |
| Auxiliary Contact Block for size 0-12, 2NO+2NC | DIN EN 50005 | LSZ0D122F |
| Auxiliary Contact Block for size 0-12, 4NC     | DIN EN 50005 | LSZ0D104F |

## AUXILIARY CONTACT BLOCKS (SIDE MOUNTED), SIZE 0-12



LSZ0D711

| DESCRIPTION                                                            | FREQU/REMARK | ORDER NO. |
|------------------------------------------------------------------------|--------------|-----------|
| Auxiliary Contact, sidemounted for size 0-12, 1NO+1NC, first position  | DIN EN 50012 | LSZ0D711  |
| Auxiliary Contact, sidemounted for size 3-12, 1NO+1NC, second position | DIN EN 50012 | LSZ3D811  |

## MECHANICAL INTERLOCKS, SIZE 0-12



LSZ0W002

| DESCRIPTION                                                                     | ORDER NO. |
|---------------------------------------------------------------------------------|-----------|
| Mechanical interlock for contactors size 0-3 (including 2NC auxiliary contacts) | LSZ0W002  |
| Mechanical interlock for contactors size 6-12                                   | LSZ6W001  |

## WIRING SETS FOR REVERSING CONTACTOR ASSEMBLIES, SIZE 0-12

| DESCRIPTION                                                                | ORDER NO. |
|----------------------------------------------------------------------------|-----------|
| Wiring set for reversing assemblies for size 0                             | LSZ0W001  |
| Wiring set for reversing assemblies for size 2, including connection clips | LSZ2W001  |
| Wiring set for reversing assemblies for size 3, including connection clips | LSZ3W001  |
| Wiring set for reversing assemblies for size 6                             | LSZ6W002  |
| Wiring set for reversing assemblies for size 10                            | LSZEW001  |
| Wiring set for reversing assemblies for size 12                            | LSZGW001  |

## WIRING SETS FOR YD-ASSEMBLIES AND YD-ACCESSORIES, SIZE 0-3

| DESCRIPTION                                                                         | ORDER NO. |
|-------------------------------------------------------------------------------------|-----------|
| Wiring set for YD-assemblies, size 0, including mech.interlock and connection clips | LSZ0Y001  |
| Wiring set for YD-assemblies, size 2-2-0                                            | LSZ2Y004  |
| Wiring set for YD-assemblies, size 2-2-2                                            | LSZ2Y003  |
| Mountingplate for YD-assemblies, size 2-2-0                                         | LSZ2Y001  |
| Mountingplate for YD-assemblies, size 2-2-2                                         | LSZ2Y002  |

## CONNECTION LINKS FOR CONTACTORS AND MOTOR PROTECTION SWITCHES, SIZE 0-3



LSZ0D002



LSZ2D004

| DESCRIPTION                                   | COIL VOLTAGE            | ORDER NO. |
|-----------------------------------------------|-------------------------|-----------|
| Connection link for contactor size 0 and BES0 | AC operating assemblies | LSZ0D002  |
| Connection link for contactor size 0 and BES0 | DC operating assemblies | LSZ0D004  |
| Connection link for contactor size 2 and BES2 | AC operating assemblies | LSZ2D004  |
| Connection link for contactor size 2 and BES2 | DC operating assemblies | LSZ2D005  |
| Connection link for contactor size 3 and BES3 | AC operating assemblies | LSZ3D004  |
| Connection link for contactor size 3 and BES3 | DC operating assemblies | LSZ3D003  |

## ▀ PARALLEL CONNECTORS (STAR JUMPER) AND FEED TERMINALS, SIZE 0-12



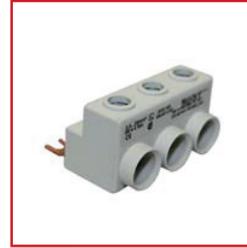
LSZ0Y002



LSZ6Y003



LSZ2D003



BEZ00116

### ▀ SCHRACK-INFO

Star jumper size 0-3 can be reduced by 1 pole\*. For touch-protection of parallel connectors size 6 use LSZ6D002, for size 10 and size 12 use LSZED002.

| DESCRIPTION                                                                        | ORDER NO. |
|------------------------------------------------------------------------------------|-----------|
| <b>PARALLEL CONNECTOR</b>                                                          |           |
| Parallel connector, 35mm <sup>2</sup> for size 0, 3pol. + terminal                 | LSZ0D003  |
| Parallel connector, star jumper for size 0, 3pol.*                                 | LSZ0Y002  |
| Parallel connector; 95mm <sup>2</sup> for size 2, 3pol.+terminal                   | LSZ2D003  |
| Parallel connector, star jumper for size 2, 3pol.*                                 | LSZ2Y005  |
| Parallel connector, star jumper for size 3, 3pol.*                                 | LSZ3Y004  |
| Parallel connector, star jumper for size 6, 3pol. (with bore diameter 10,5mm)      | LSZ6Y003  |
| Parallel connector, star jumper for size 10, 12, 3pol. (with bore diameter 12,5mm) | LSZEY003  |
| <b>FEED TERMINALS</b>                                                              |           |
| Feed terminal, 25mm <sup>2</sup> for size 0, 3pol. + 3 terminals                   | BEZ00116  |
| Feed terminal, 50mm <sup>2</sup> for size 2, 3pol. + 3 terminals                   | BEZ00216  |
| Feed terminal, 95mm <sup>2</sup> for size 3, 1pol. + terminal                      | LSZ3D001  |

## ▀ SURGE SUPPRESSORS, SIZE 0-12



LSZ00002

### ▀ SCHRACK-INFO

Up to size 3, these devices can be snapped in either at the top (assemblies with overload relays) or at the bottom (assemblies with MPS) of the contactor. Sizes 6-12: snapping in is only possible at the top of contactor.

| DESCRIPTION                                                 | COIL VOLTAGE                    | ORDER NO. |
|-------------------------------------------------------------|---------------------------------|-----------|
| Surge suppressor, diode assembly for size 0, top mounted    | DC24V                           | LSZD0005  |
| Surge suppressor, diode assembly for size 0, bottom mounted | DC24V (marked with "+" and "-") | LSZD0006  |
| Varistor for size 0                                         | AC24-48V; DC24-70V              | LSZ00001  |
| Varistor for size 0                                         | AC127-240V; DC150-250V          | LSZ00002  |
| Surge suppressor, RC for size 0                             | AC127-240V; DC150-250V          | LSZ00003  |
| Surge suppressor, RC for size 2-3                           | AC127-240V; DC150-250V          | LSZ20001  |
| Surge suppressor, RC for size 6-12                          | AC127-240V; DC150-250V          | LSZ60001  |

## CONNECTION CLIPS FOR CONTACTORS, SIZE 0-3



LSZ2W003



LSZ2D001

### SCHRACK-INFO

2 pieces of clips are necessary for 1 contactor-assembly (2 contactors).

| DESCRIPTION                                                                                           | ORDER NO. |
|-------------------------------------------------------------------------------------------------------|-----------|
| Connection clip, for contactors 3/4pole, size 0 to 0 (contactors without interlock)                   | LSZ0W003  |
| Connection clip, for contactors 3/4pole, size 0 to 0 (interlocked contactors - clearance 10 mm)       | LSZ0W004  |
| Connection clip, for contactors 4pole, size 2 to 2 (interlocked contactors - clearance 10 mm)         | LSZ2W002  |
| Connection clip, for contactors 4pole, size 3 to 3 (interlocked contactors - clearance 10 mm)         | LSZ3W002  |
| Connection clip, for contactors 3pole, size 2/3/6 to 2/3/6 (interlocked contactors - clearance 10 mm) | LSZ2W003  |
| Connection clip, for contactors 3/4pole, size 2/3 (contactors without interlock)                      | LSZ2D001  |

## MECHANICAL LATCHING BLOCK, SIZE 0-2



LSZ00113

### SCHRACK-INFO

Contactors fitted with this latching block will remain "ON" in case of control-voltage failure until the latching block is resetted by a 24 VAC DC impuls.

| DESCRIPTION                                                           | COIL VOLTAGE | ORDER NO. |
|-----------------------------------------------------------------------|--------------|-----------|
| Mechanical latching block for size 0-2, remains "ON" if voltage fails | 24VACDC      | LSZ00113  |

## TERMINAL COVERS, SIZE 2-14



LSZ6D001



LSZ6D002

### SCHRACK-INFO

Additional covers for contactors with box terminals size 6-12 on request.

| DESCRIPTION                                                                                                | ORDER NO. |
|------------------------------------------------------------------------------------------------------------|-----------|
| Terminal Cover for size 2* (additional cover, to be fitted on the box terminals)                           | LSZ2D002  |
| Terminal Cover for size 3* (additional cover, to be fitted on the box terminals)                           | LSZ3D002  |
| Terminal Cover for size 6* for contactors with cable lug or busbar connection (38 mm)                      | LSZ6D001  |
| Terminal Cover - short version for size 6* for contactor assemblies (100 mm)                               | LSZ6D002  |
| Terminal Cover for size 10*/12* for contactors with cable lug or busbar connection (120 mm)                | LSZED001  |
| Terminal Cover - short version for size 10*/12* for contactors with cable lug or busbar connection (42 mm) | LSZED002  |
| Terminal Cover for size 14* for contactors with cable lug or busbar connection                             | LSZHD001  |

\* Order 2 pcs. for one complete contactor, order 1 pc. just for one side (up side or bottom side) of contactor