

MOTOR PROTECTION SWITCH

■ BES MOTOR PROTECTION SWITCH, SIZE 00



BESD0063

■ SCHRACK INFO

- Use for mounting of BESD...on contactors size 00, connection module LSZDD005
- For dimensions and wiring diagram, see from page 834.

DESCRIPTION	NOMINAL CURRENT A / kW*	EAN CODE	AVAILABLE	ORDER NO.
SIZE 00 – 100 kA (short-circuit breaking capacity at I_{cu} 400 VAC)				
0.16 A, Class 10	0.11-0.16 A / 0.04 kW	9004840542325		BESD0016
0.20 A, Class 10	0.14-0.20 A / 0.06 kW	9004840542332		BESD0020
0.25 A, Class 10	0.18-0.25 A / 0.06 kW	9004840542349		BESD0025
0.32 A, Class 10	0.22-0.32 A / 0.09 kW	9004840542356		BESD0032
0.40 A, Class 10	0.28-0.40 A / 0.09 kW	9004840542363		BESD0040
0.50 A, Class 10	0.35-0.50 A / 0.12 kW	9004840542370		BESD0050
0.63 A, Class 10	0.45-0.63 A / 0.18 kW	9004840542387		BESD0063
0.80 A, Class 10	0.55-0.80 A / 0.18 kW	9004840542394		BESD0080
1.00 A, Class 10	0.70-1.00 A / 0.25 kW	9004840542400		BESD0100
1.25 A, Class 10	0.90-1.25 A / 0.37 kW	9004840551129		BESD0125
1.60 A, Class 10	1.10-1.60 A / 0.55 kW	9004840542424		BESD0160
2.00 A, Class 10	1.40-2.00 A / 0.75 kW	9004840542431		BESD0200
2.50 A, Class 10	1.80-2.50 A / 0.75 kW	9004840542448		BESD0250
3.20 A, Class 10	2.20-3.20 A / 1.10 kW	9004840542455		BESD0320
4.00 A, Class 10	2.80-4.00 A / 1.10 kW	9004840542462		BESD0400
5.00 A, Class 10	3.50-5.00 A / 1.50 kW	9004840542479		BESD0500
6.30 A, Class 10	4.50-6.30 A / 2.20 kW	9004840542486		BESD0630
SIZE 00 – 50 kA (short-circuit breaking capacity at I_{cu} 400 VAC)				
8 A, Class 10	5.50-8.00 A / 3.00 kW	9004840542493		BESD0800
10 A, Class 10	7.00-10.0 A / 4.00 kW	9004840542509		BESD1000
12 A, Class 10	9.00-12.0 A / 5.50 kW	9004840542516		BESD1200

*Reference values for 4-pole standard motors at 50 Hz/400 VAC. The selection depends on the specific starting and rated performance of the motor to be protected.



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SOFT STARTER 2-PHASE, WITH INTEGRATED BY-PASS AND MOTORPROTECTION



RATED CURRENT	RATED VOLTAGE	EAN CODE	AVAILABLE	ORDER NO.
34 A AC-53a	200-440 V AC	9004840588156		LAKS4034
42 A AC-53a	200-440 V AC	9004840588163		LAKS4042
48 A AC-53a	200-440 V AC	9004840588170		LAKS4048
60 A AC-53a	200-440 V AC	9004840588187		LAKS4060
75 A AC-53a	200-440 V AC	9004840588194		LAKS4075
85 A AC-53a	200-440 V AC	9004840588200		LAKS4085
100 A AC-53a	200-440 V AC	9004840588217		LAKS4100
140 A AC-53a	200-440 V AC	9004840588224		LAKS4140
170 A AC-53a	200-440 V AC	9004840588231		LAKS4170
200 A AC-53a	200-440 V AC	9004840588248		LAKS4200

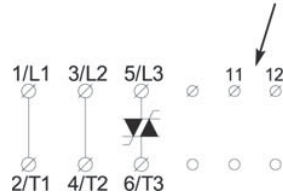
TORQUE LIMITER



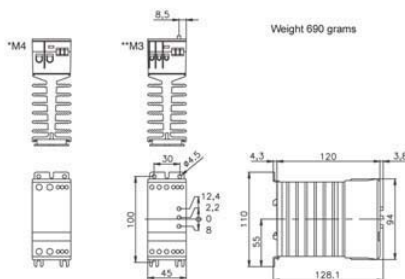
LAD34150

Connection diagram

LAD3X150/250 For UP62 or other connection options



Dimensions for the 45 mm module (LAS1/LAW/LAK15A/LAD/LAA 30A)



SCHRACK-INFO

- Unit used to soft start three-phase and single-phase motors with rated operating voltages of 230 to 600 V, 50 or 60 Hz
- Rated operating current up to 25 A AC-3 (11 kW 400 V 3 phases)
- Operating voltage range: 230 to 600 V AC, 50 or 60 Hz
- Adjustable ramp-up time 0.5 s to 5 s
- Initial torque can be set to between 0% - 85% of nominal torque.
- LED operating status indicator
- Degree of protection IP 20
- Compact modular structure, 45 mm installation width on DIN rail
- Genuine contact-free motor contactor for extremely long service life
- Unlimited number of start/stop operations per hour.

RATED CURRENT	RATED VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
15 A	208-480 V AC	45x110x128,1	5705609000295		LAD34150
25 A	208-480 V AC	45x110x128,1	5705609000486		LAD34250

MOTOR CONTROLLER WITH BY-PASS



WITHOUT BY-PASS	WITH BY-PASS	RATED VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
25 A AC-53a	30 A AC-53b	400–480 V	90x110x128,1	9004840188493		LAKB4255
35 A AC-53a	50 A AC-53b	400–480 V	180x145x144,8	9004840389074		LATB4355
17 A AC-53a	25 A AC-53b	400–480 V	90x110x128,1	9004840449860		LATB4175
60 A AC-53a	86 A AC-53b	400–480 V	180x145x144,8	9004840389081		LATD4605

SOFT STARTER 2-PHASE, WITH INTEGRATED BY-PASS



RATED CURRENT	RATED VOLTAGE	EAN CODE	AVAILABLE	ORDER NO.
34 A AC-53a	200–440 V AC	9004840588057		LAKA4034
42 A AC-53a	200–440 V AC	9004840588064		LAKA4042
48 A AC-53a	200–440 V AC	9004840588071		LAKA4048
60 A AC-53a	200–440 V AC	9004840588088		LAKA4060
75 A AC-53a	200–440 V AC	9004840588095		LAKA4075
85 A AC-53a	200–440 V AC	9004840588101		LAKA4085
100 A AC-53a	200–440 V AC	9004840588118		LAKA4100
140 A AC-53a	200–440 V AC	9004840588125		LAKA4140
170 A AC-53a	200–440 V AC	9004840588132		LAKA4170
200 A AC-53a	200–440 V AC	9004840588149		LAKA4200



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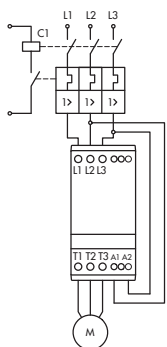
- Access technical product information at any time and from everywhere
- See availability and price immediately
- Order desired products easily

SOFT STARTERS

MOTOR CONTROLLER



lak32155



RANGE OF APPLICATION

Motor drive:

- Packaging industry
- Printing presses
- Valve control in power stations
- Bell controls

In general:

- Compressor systems
- Machine tools
- Conveyor systems
- Looms
- Fans and ventilation systems
- Woodworking machines

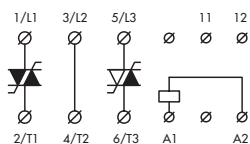
SUPPLEMENTAL TECHNICAL DATA

- Soft starter, three controlled phases
- Soft starter, two controlled phases
- Soft starters with break system
- Initial torque limiting system, 1 or 3 controlled phases

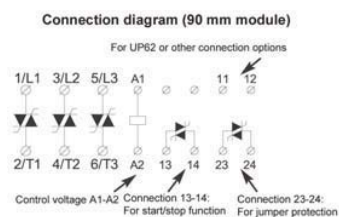
Benefits:

- Easy, rapid mounting
- Immediately ready for use
- Very easy to adjust
- Contact-protected
- More compact than standard soft starters
- Standardized module widths

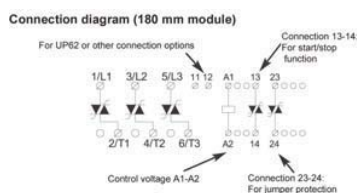
2 controlled phases, LAK



3 controlled phases, LAT



3 controlled phases, LAT B/D



APPLICATIONS

Used to delay the start and stop of 3-phase motors:

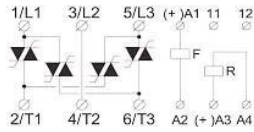
- Compressor systems
- Machine tools
- Conveyor systems
- Looms
- Fans and ventilation systems
- Woodworking machines
- Can be used instead of Star/Delta starters
- Packaging industry
- Printing presses

3-PHASE ELECTRONIC MOTOR CONTACTOR

REVERSING CONTACTOR



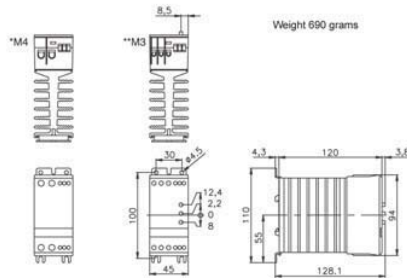
LAW34101



SCHRACK-INFO

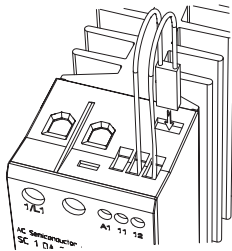
- Electronic contactor for reverse motor control
- Rated operating current up to 10 A AC-3/8 A AC-4
- Rated operating voltage up to 480V AC
- Control voltage 5-24 V DC or 24-230 V AC
- 2 separate potential-free control voltage inputs
- Meets requirements of EN 60947-4-2
- Modular design with an overall width of 45 mm on DIN rail
- LED operating status indicator
- IP 20 shock protection
- AC and DC control voltage
- Integrated interlock circuit

Dimensions for the 45 mm module (LAS1/LAW/LAK15A/LAD/LAA 30A)



RATED CURRENT	RATED VOLTAGE	CONTROL VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
10 A	24-480 V AC 50/60 HZ	24-230 V AC/DC	45x110x124,3	5705609000264		LAW34102

ELECTRONIC/MOTOR CONTACTOR ACCESSORIES



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Thermal overload protection	9004840150117		LASUP62



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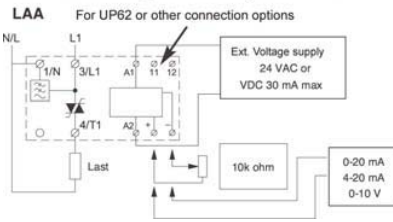


1-PHASE ELECTRONIC ANALOGUE CONTROLLER



LAA14306

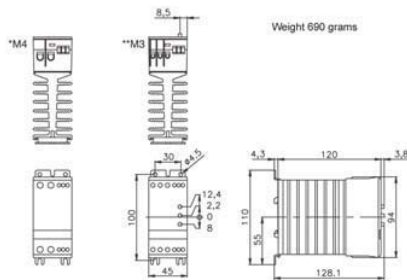
Connection diagram analogue controller



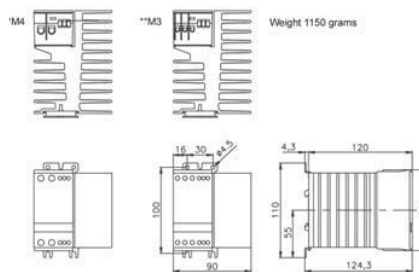
SCHRACK-INFO

- Analogue controller for accurate process temperature control
- Heating element control with phase angle or burst firing control
- Current loop control: 0-20 mA, 4-20 mA
- Voltage control: 0-10 V DC
- Manual control 10 kΩ potentiometer
- Reverse action possible
- Rated voltage: 230 or 400 V AC
- Rated current: up to 30 or 50 A AC-51 (AC 1)
- Integrated EMC filter

Dimensions for the 45 mm module (LAS1/LAW/LAK15A/LAD/LAA 30A)



Dimensions for the 90 mm module (LAS2 50A/63A /LAA 50A)

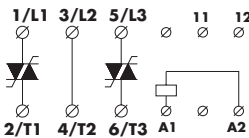


DESCRIPTION	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
Analogue controller 30 A/380-480 V	45x110x128,1	9004840153958		LAA14306

MOTOR CONTACTORS



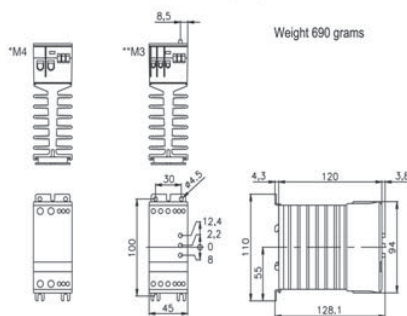
LAM32154



SCHRACK-INFO

- Designed for direct start-up of 3-phase motors
- Rated operating current: 15 A AC-3 (10 HP at 400 V 3 Phase)
- Operating voltage range: from 24 to 600 V AC 50 or 60 Hz
- Control voltage range: from 24 to 480 V AC or 24-60 V DC
- LED operating status indicator
- Degree of protection IP 20
- Compact modular design, 45 mm installation width on DIN rail
- Meets requirements of standard EN 6047-4-2
- Genuine contact-free motor contactor for extremely long service life
- Unlimited number of start/stop cycles possible per hour

Dimensions for the 45 mm module (LAM)



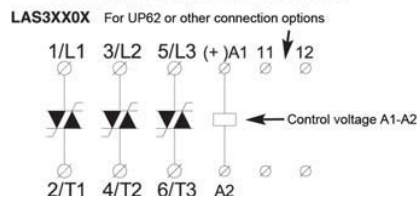
RATED CURRENT	RATED VOLTAGE	CONTROL VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
15 A	400-480 VAC 50/60 Hz	24-480 V AC 24-60 V DC	45x110x124,3	5705609000455		LAM34154

THREE-PHASE REGULATION



LAS32102

Connection diagram three. phase



SCHRACK-INFO

- Rated operating current up to 3x20 A
AC-1/ 10 A AC-3

RATED CURRENT	RATED VOLTAGE	CONTROL VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
10 A	12-240 V AC 50/60 Hz	24-230 V AC/DC	45x110x124,3	5705609000189		LAS32102
10 A	24-480 V AC 50/60 Hz	24-230 V AC/DC	45x110x124,3	5705609000226		LAS34102
20 A	12-240 V AC 50/60 Hz	5-24 V DC	90x110x124,3	5705609000196		LAS32201
20 A	12-240 V AC 50/60 Hz	24-230 V AC/DC	90x110x124,3	5705609000202		LAS32202
20 A	24-480 V AC 50/60 Hz	5-24 V DC	90x110x124,3	5705609000233		LAS34201
20 A	24-480 V AC 50/60 Hz	24-230 V AC/DC	90x110x124,3	5705609000240		LAS34202
20 A	48-600 V AC 50/60 Hz	5-24 V DC	90x110x124,3	5705609000417		LAS36201
20 A	48-600 V AC 50/60 Hz	24-230 V DC	90x110x124,3	5705609000394		LAS36202



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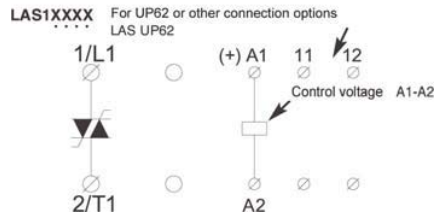


SINGLE-PHASE REGULATION



LAS12301

Connection diagram single phase



SCHRACK-INFO

- Rated operating current up to 63 A AC-1
- Rated operating voltage up to 600 V AC, 50/60 Hz
- Control voltage 5-24 V DC or 24-230 V AC/DC
- Meets requirements of EN 60947-4-3
- Modular design with following widths 22.5 mm, 45 mm and 90 mm on DIN rail
- LED operating status indicator
- IP 20 degree of protection
- AC and DC control voltage
- Integrated varistor protection

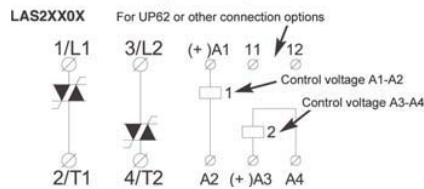
RATED CURRENT	RATED VOLTAGE	CONTROL VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
30 A	12-240 V AC 50/60 Hz	5-24 V DC	45x110x124,3	9004840379815		LAS12301
30 A	12-240 V AC 50/60 Hz	24-230 V AC/DC	45x110x124,3	5705609000028		LAS12302
30 A	24-480 V AC 50/60 Hz	5-24 V DC	45x110x124,3	5705609000059		LAS14301
30 A	24-480 V AC 50/60 Hz	24-230 V AC/DC	45x110x124,3	5705609000066		LAS14302
50 A	12-240 V AC 50/60 Hz	24-230 V AC/DC	90x110x124,3	5705609000042		LAS12502
50 A	24-480 V AC 50/60 Hz	5-24 V DC	90x110x124,3	5705609000073		LAS14501

TWO-PHASE REGULATION



LAS22302

Connection diagram two-phase



SCHRACK-INFO

- 2 autonomous 1-pole contactors in a single housing
- Rated operating current up to 50 A AC-1/2x15 A AC-3

RATED CURRENT	RATED VOLTAGE	CONTROL VOLTAGE	DIM. (WxHxD) mm	EAN CODE	AVAILABLE	ORDER NO.
30 A	12-240 V AC 50/60 Hz	24-230 V AC/DC	45x110x124,3	5705609000103		LAS22302
30 A	24-480 V AC 50/60 Hz	5-24 V DC	45x110x124,3	5705609000134		LAS24301
30 A	24-480 V AC 50/60 Hz	24-230 V AC/DC	45x110x124,3	5705609000141		LAS24302
50 A	24-480 V AC 50/60 Hz	5-24 V DC	90x110x124,3	5705609000158		LAS24501
50 A	24-480 V AC 50/60 Hz	24-230 V AC/DC	90x110x124,3	5705609000165		LAS24502



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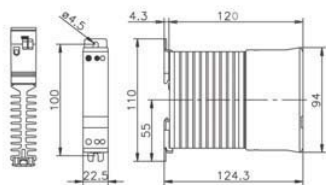


■ SINGLE-PHASE/ TWO-PHASE/ THREE-PHASE REGULATION

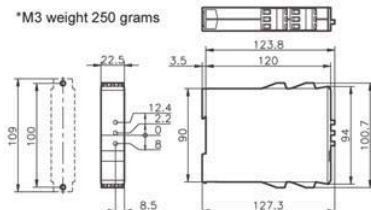


SEMICONDUCTOR CONTACTORS SINGLE-, TWO-, THREE-PHASE

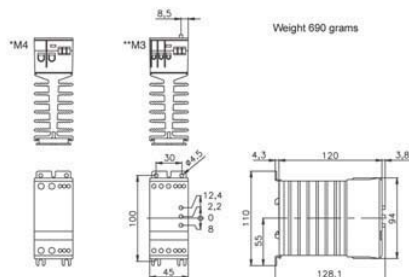
Dimensions for the 22.5 mm module (LAS10 A/15 A und LAK3,5 A)



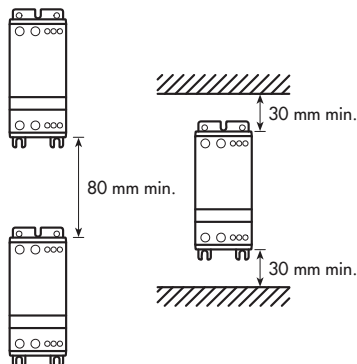
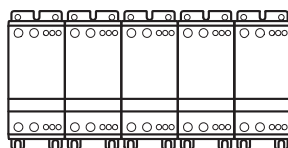
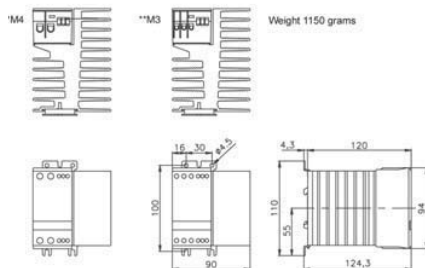
*M3 weight 250 grams



Dimensions for the 45 mm module (LAS1/LAW/LAK15A/LAD/LAA 30A)



Dimensions for the 90 mm module (LAS2 50A/3A /LAA 50A)



■ SCHRACK-INFO

- Rated operating voltage up to 600V AC, 50/60 Hz
- Control voltage 5-24 V DC or 24-230 V AC/DC
- Meets requirements of EN 60947-4-3
- Modular design with an overall width of 45 mm on DIN rails
- LED operating status indicator
- IP 20 degree of protection
- AC and DC control voltage
- Built-in varistor protection

■ RANGE OF APPLICATION

Heater controls:

- Soldering machines
- Plastic processing industry
- Galvanic industry
- Photo/film developers
- Film packaging
- Rubber industry

Lighting:

- Traffic lights
- Streetlights
- Floodlights in stadiums
- Outside factory lighting

■ TECHNICAL DATA, SINGLE-PHASE:

- Rated operating current up to 63 A AC-1

■ TECHNICAL DATA, TWO-PHASE:

- Rated operating current up to 50 A AC-1/2x15 A AC-3
- 2 autonomous 1-pole contactors in a single housing

■ TECHNICAL DATA, THREE-PHASE:

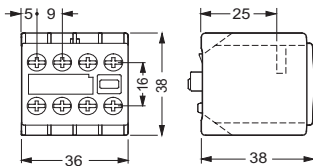
- Rated operating current up to 3x20 A AC-1/ 10 A AC-3

CONTACTORS

ACCESSORIES FOR LSD CONTACTORS – DIMENSIONS

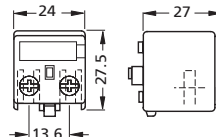
LSZDD2.., LSZDH5..*

AUXILIARY CONTACT BLOCKS, SIZE 00
Terminal names according to EN 50012 or EN 50005*
Screw terminals, 1 - 4-pole



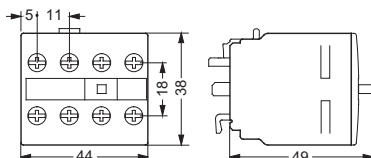
LSZD0501, LSZD0510

AUXILIARY CONTACT BLOCKS, SIZE 00
Terminal names according to EN 50005
Screw terminals, cable entry from below, 1-pole



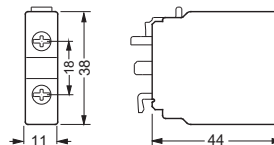
LSZ0D1.., LSZ0D1..F*

FRONT AUXILIARY CONTACT BLOCKS,
SIZES 0-12
Terminal names according to EN 50012 or EN 50005*
Screw terminals, 4 pole



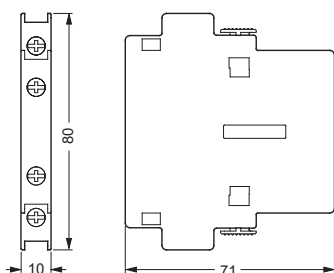
LSZ0D0.., LSZ0D9..

FRONT AUXILIARY CONTACTS,
SIZES 0-12
Terminal names according to EN 50005 and EN 50012
Screw terminals, 1 pole



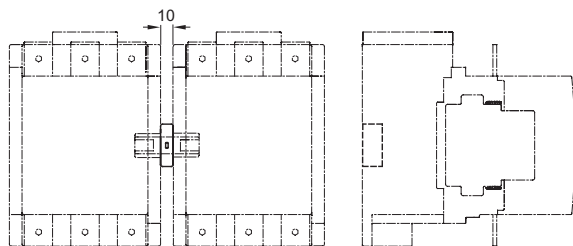
LSZ0D711, LSZ3D811*

LATERAL AUXILIARY CONTACT BLOCKS,
SIZES 0-12/3-12*
Terminal names according to EN 50012
Screw terminals, 2 pole



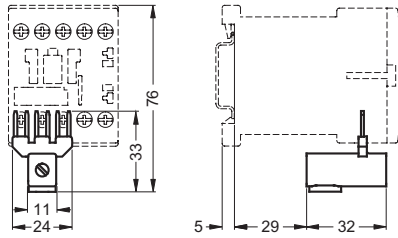
ACCESSORIES FOR CONTACTOR ASSEMBLIES

LSZ6W001 MECHANICAL INTERLOCK, SIZE 6-12

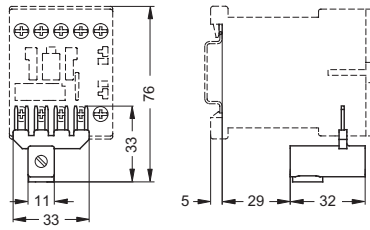


ACCESSORIES FOR LSD CONTACTORS – DIMENSIONS

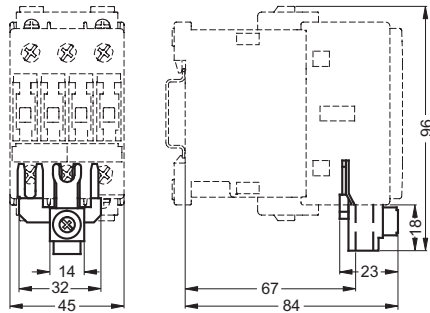
LSZDD003 PARALLEL CONNECTOR, SIZE 00
3-pole, with terminal



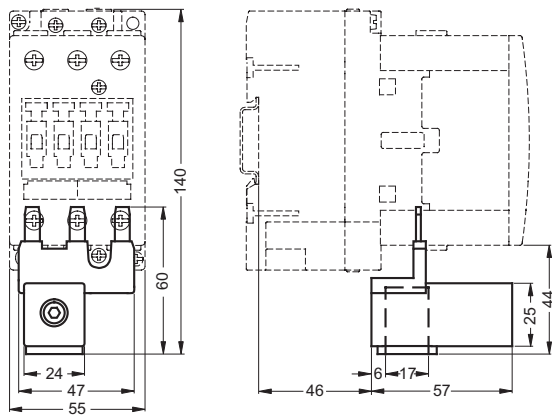
LSZDD004 PARALLEL CONNECTOR, SIZE 00
4-pole, with terminal



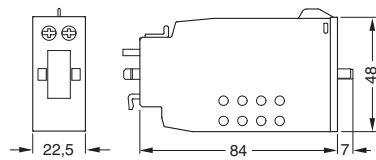
LSZ0D003 PARALLEL CONNECTOR, SIZE 0
3-pole, with terminal



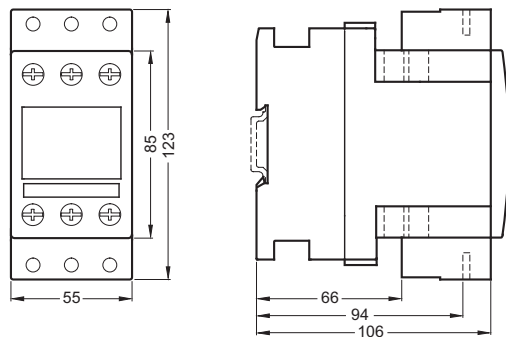
LSZ2D003 PARALLEL CONNECTOR, SIZE 2
3-pole, with terminal



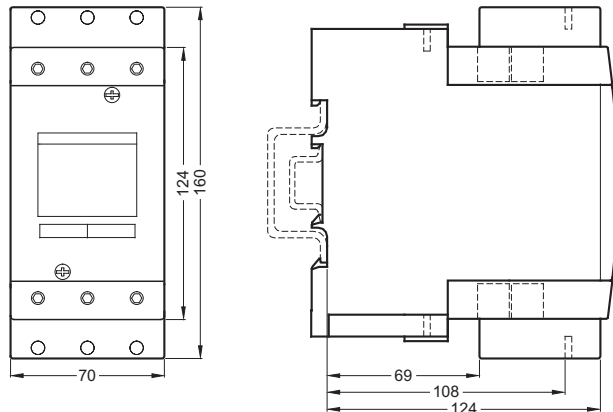
LSZ00113 MECHANICAL LATCHING BLOCK, SIZES 0, 2



LSZ2D002 TERMINAL COVER FOR BOX TERMINAL, SIZE 2



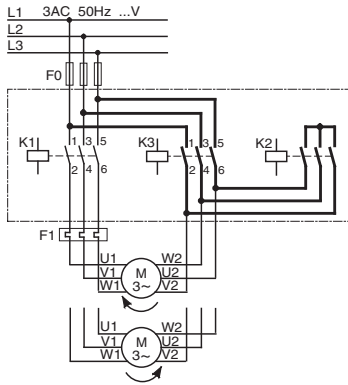
LSZ3D002 TERMINAL COVER FOR BOX TERMINAL, SIZE 3



CONTACTORS

WYE-DELTA ASSEMBLIES – WIRING DIAGRAM

MAIN CIRCUIT, SIZES 00, 0



Bold connections are part of the wiring kit.

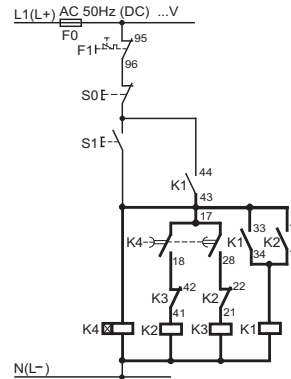
CONTROL CIRCUIT, SIZES 00-12

With LSZD0101 wye-delta timer relay side-mounted.

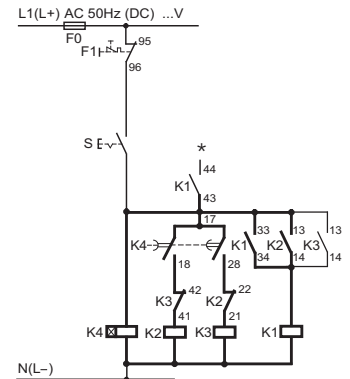
The contact K4:17/18 is closed only in the wye stage.

When de-energized and in the delta stage this contact is open.

Button operation

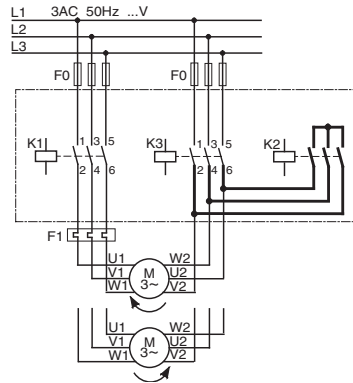


Permanent contact



*Terminal K1:44 is not wired in this version

MAIN CIRCUIT, SIZES 2-12

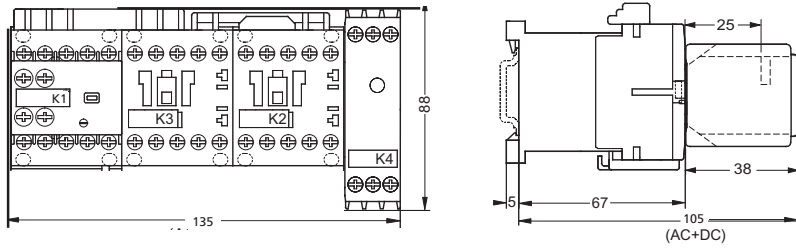


Bold connections are part of the wiring kit.

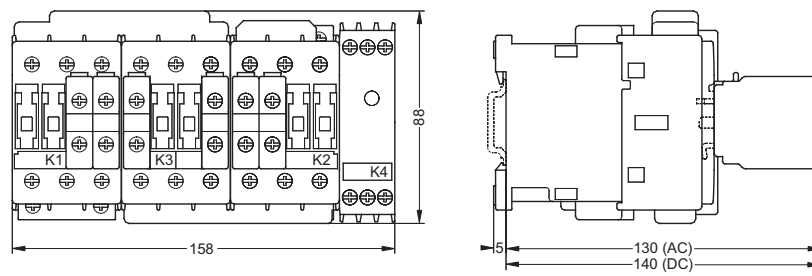
- S0 button "OFF"
- S1 button "ON"
- S switch with permanent contact
- K1 mains contactor
- K2 wye contactor
- K3 delta contactor
- K4 wye-delta timer relay
- F0 fuses
- F1 thermal overload relays

LSY WYE-DELTA ASSEMBLIES – DIMENSIONS

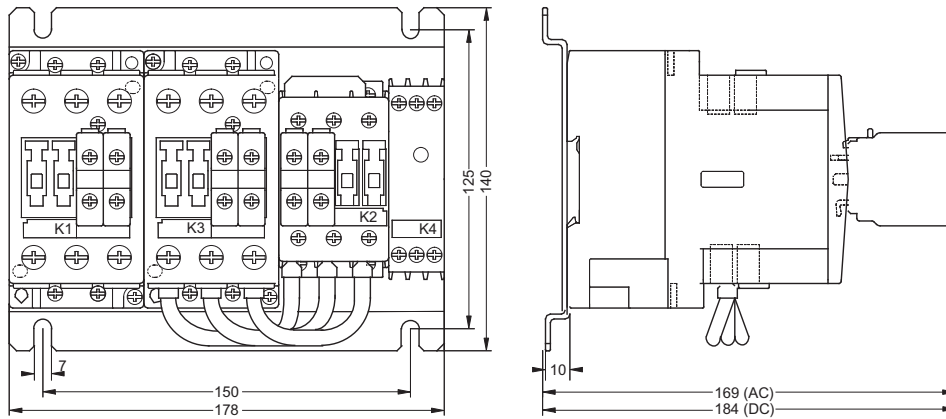
LSYD, SIZE 00 – 00 – 00



LSY0, SIZE 0 – 0 – 0



LSY2, SIZE 2 – 2 – 0

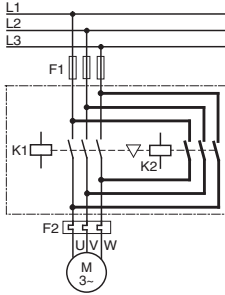


CONTACTORS

LSW REVERSING CONTACTOR ASSEMBLIES – WIRING DIAGRAM

MAIN CIRCUIT, SIZE 00

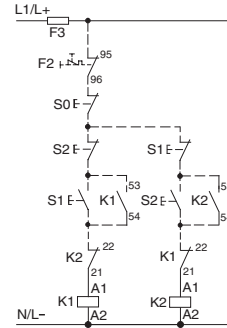
The wiring kit LSZDW001 also includes the connectors for the main circuit.



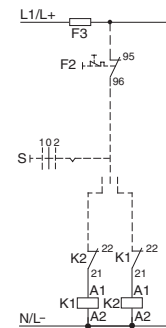
CONTROL CIRCUIT, SIZE 00

Terminal names according to EN 50012. The wiring kit LSZDW001 also includes the electrical interlock.

Button operation

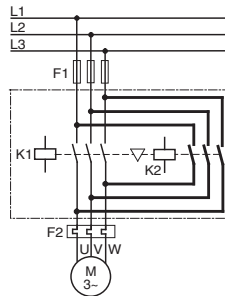


Permanent contact



MAIN CIRCUIT, SIZES 0-3

The wiring kit LSZ.W001 also includes the connectors for the main circuit.

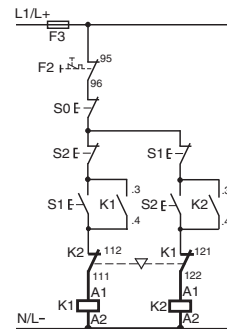


- S0 button "OFF"
- S1 button "ON" clockwise
- S2 button "ON" counterclockwise
- S selector "CW- OFF - CCW"
- K1 clockwise contactor
- K2 counterclockwise contactor
- F1 fuses for main circuit
- F3 fuses for control circuit
- F2 thermal overload relay

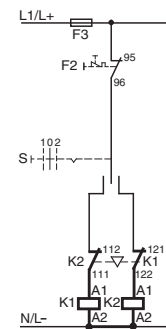
CONTROL CIRCUIT, SIZES 0-3

Terminal names according to EN 50012. The mechanical interlock LSZ0W002 includes 2 NC contacts, 1 NC contact for each contactor.

Button operation



Permanent contact

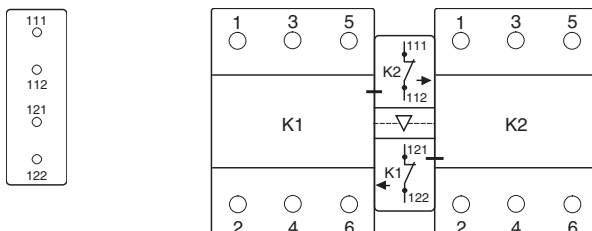


LSW REVERSING CONTACTOR ASSEMBLIES – LOCATION OF CONNECTION TERMINALS

LSW REVERSING CONTACTOR ASSEMBLIES, SIZE 0-3

Terminal names according to EN 50005. The mechanical interlock LSZ0W002 includes 2 NC contacts, 1 NC contact for each contactor.

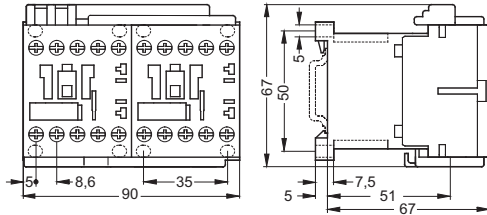
2 NC



LSW REVERSING CONTACTOR ASSEMBLIES – DIMENSIONS

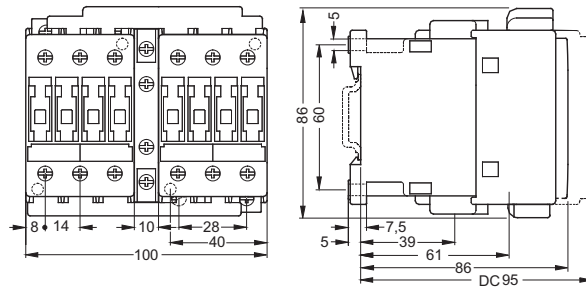
LSWD, SIZE 00

With or without locking module LSZDW002.



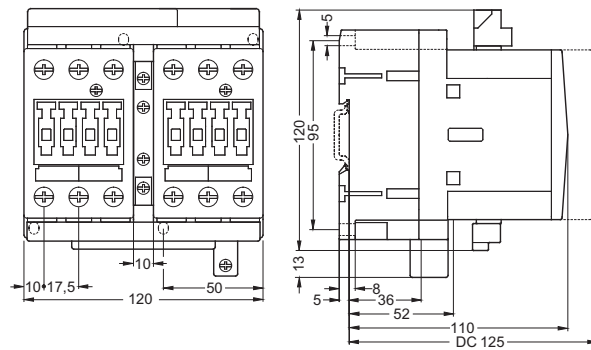
LSW0, SIZE 0

With mechanical interlock LSZ0W002.



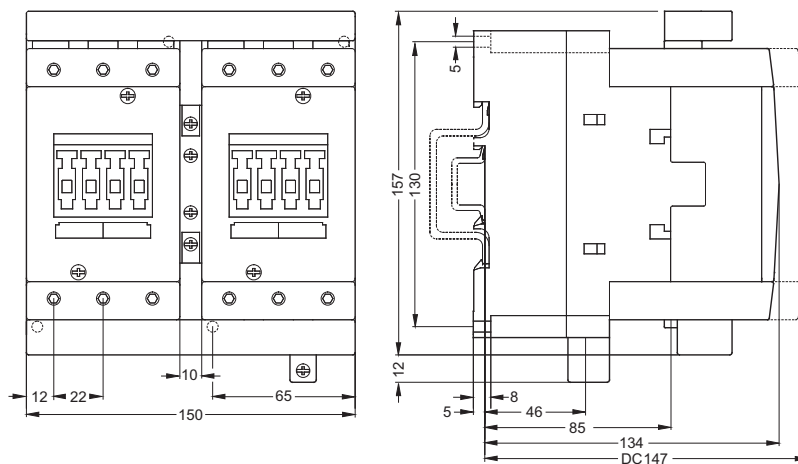
LSW2, SIZE 2

With mechanical interlock LSZ0W002.



LSW3, SIZE 3

With mechanical interlock LSZ0W002.

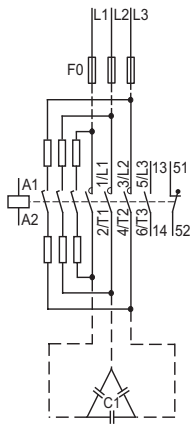


CONTACTORS

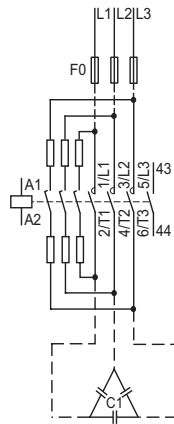
CAPACITOR CONTACTORS – WIRING DIAGRAM

LSK CAPACITOR CONTACTORS, SIZE 00, 0, 3

Size 00



Size 0, 3



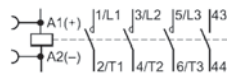
CAPACITOR CONTACTORS – TERMINAL NAME

LSK CAPACITOR CONTACTORS, SIZE 00, 0, 3

**LSKD contactors
Size 00**



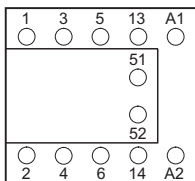
**LSK0, LSK3 contactors
Size 0, 3**



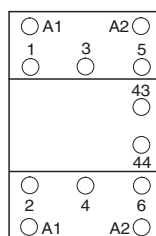
CAPACITOR CONTACTORS – LOCATION OF CONNECTION TERMINALS

LSK CAPACITOR CONTACTORS, SIZE 00, 0, 3

**LSKD contactors
Size 00**

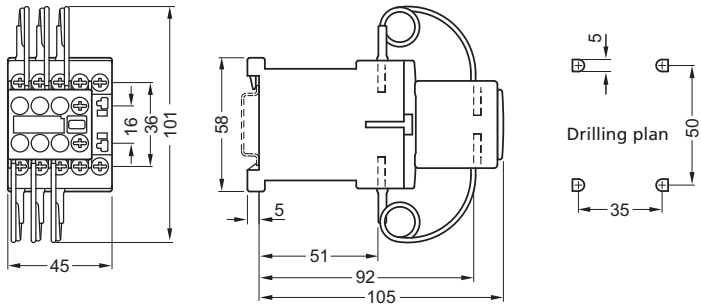


**LSK0, LSK3 contactors
Size 0, 3**

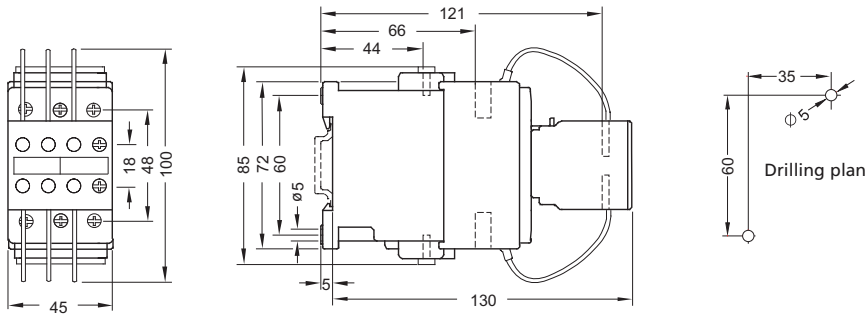


LSK CAPACITOR CONTACTORS – DIMENSIONS

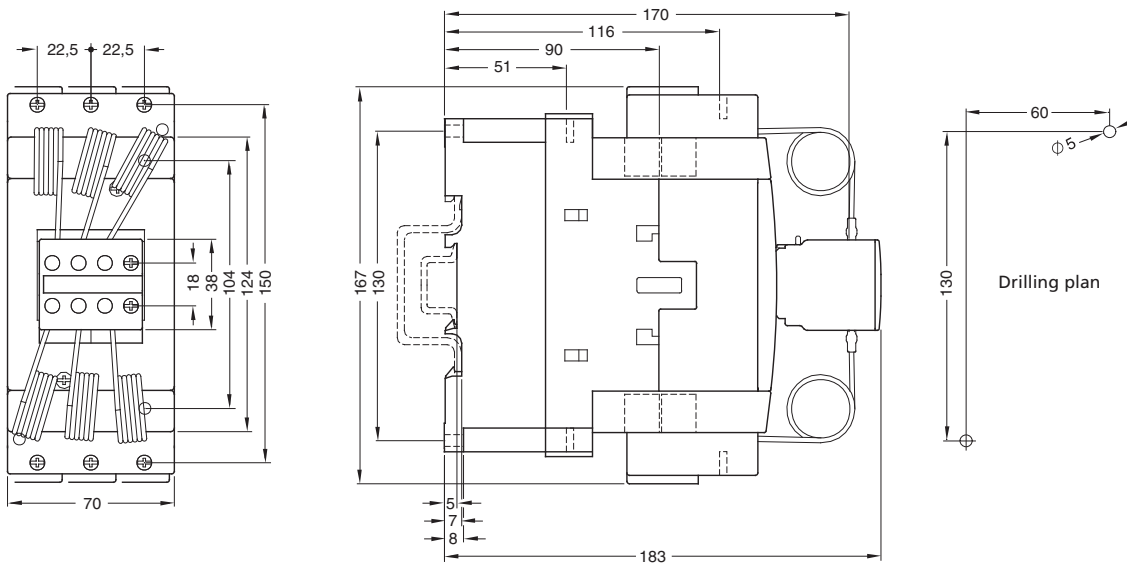
LSKD CAPACITOR CONTACTORS, SIZE 00



LSK0 CAPACITOR CONTACTORS, SIZE 0



LSK3 CAPACITOR CONTACTORS, SIZE 3



LS-CONTACTORS AND ACCESSORIES – LOCATION OF THE CONNECTION TERMINALS

LSZ0D7.., LSZ3D8.. LATERAL AUXILIARY CONTACT BLOCKS, 2-POLE, SIZE 0(3)-12

Terminal names according to EN 50012

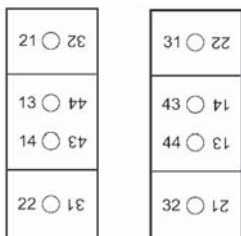
LSZ0D711

1st position lateral, left or right

1 NO + 1 NC

Left

Right



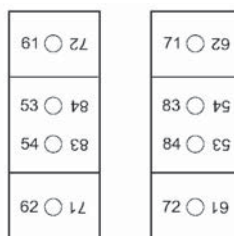
LSZ3D811

2nd position lateral, left or right (only for sizes 3-12)

1 NO + 1 NC

Left

Right

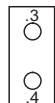


LSZ0D0.., LSZ0D9.. FRONT AUXILIARY CONTACTS, 1-POLE, SIZE 0-12

Terminal names according to EN 50005 and EN 50012.

LSZ0D010

1 NO



LSZ0D001

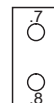
1 NC



LSZ0D910

1 NO

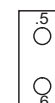
early-make



LSZ0D901

1 NC

delayed



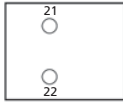
LS-CONTACTORS AND ACCESSORIES – LOCATION OF THE CONNECTION TERMINALS

AUXILIARY CONTACT BLOCKS FOR LSDD, LSSD WITH INCLUDED NO CONTACT

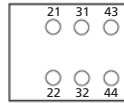
LSZDD2.. AUXILIARY CONTACT BLOCKS, 1-, 3- AND 4-POLE, SIZE 00

Terminal names according to EN 50012

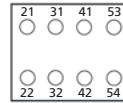
LSZDD201
1 NC



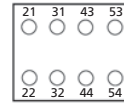
LSZDD212
1 NO + 2 NC



LSZDD213
1 NO + 3 NC



LSZDD222
2 NO + 2 NC

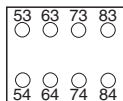


AUXILIARY CONTACT BLOCKS FOR LSDD, LSSD WITH INCLUDED NC CONTACT AND FOR LSHD, LSRD, LSUD

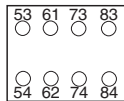
LSZDH5.. AUXILIARY CONTACT BLOCKS, 4-POLE, SIZE 00

Terminal names according to EN 50005

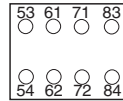
LSZDH540
4 NO



LSZDH531
3 NO + 1 NC



LSZDH522
2 NO + 2 NC



LSZD05.. AUXILIARY CONTACT BLOCKS, 1-POLE, SIZE 00

Cable connection from below, terminal names according to EN 50005

LSZD0510
1 NO



LSZD0501
1 NC

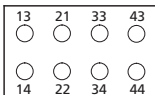


AUXILIARY CONTACT BLOCKS FOR LSD0-12*, (LSR0,2,3 AND LSU0,2)**

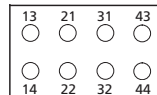
LSZD01.. AUXILIARY CONTACT BLOCKS, 4-POLE, SIZE 0-12*

Terminal names according to EN 50012

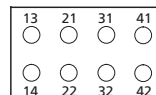
LSZD0131
3 NO + 1 NC



LSZD0122
2 NO + 2 NC



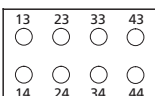
LSZD0113
1 NO + 3 NC



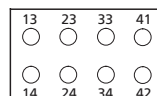
LSZD0..F AUXILIARY CONTACT BLOCKS, 4-POLE, SIZE 0-12***

Terminal names according to EN 50005

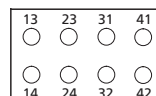
LSZD0140F
4 NO



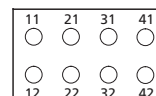
LSZD0131F
3 NO + 1 NC



LSZD0122F
2 NO + 2 NC



LSZD0104F
4 NC



CONTACTORS

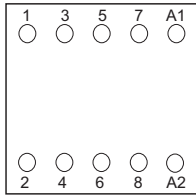
LS-CONTACTORS AND ACCESSORIES – LOCATION OF THE CONNECTION TERMINALS

LSRD CONTACTORS

WITH 4 MAIN CONTACTS, SIZE 00

Terminal names according to EN 50005

4 NO

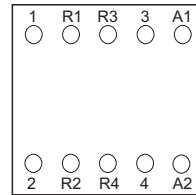


LSUD CONTACTORS

WITH 4 MAIN CONTACTS, SIZE 00

Terminal names according to EN 50005

2 NO + 2 NC

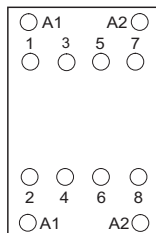


LSR0, LSR2, LSR3 CONTACTORS

WITH 4 MAIN CONTACTS, SIZE 0-3

Terminal names according to EN 50005

4 NO

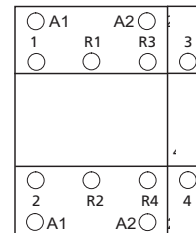


LSU0, LSU2, LSU3 CONTACTORS

WITH 4 MAIN CONTACTS, SIZE 0-3

Terminal names according to EN 50005

2 NO + 2 NC

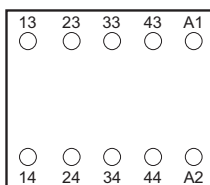


LSHD AUXILIARY CONTACTORS FOR PLC, SIZE 00

Terminal names according to EN 50011

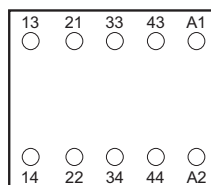
LSHD067.

4 NO



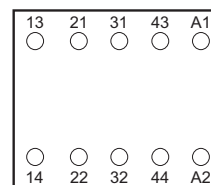
LSHD068.

3 NO + 1 NC



LSHD069.

2 NO + 2 NC

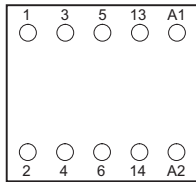


LS-CONTACTORS AND ACCESSORIES – LOCATION OF THE CONNECTION TERMINALS

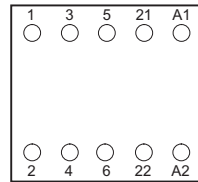
LSDD, LSSD CONTACTORS, SIZE 00

Terminal names according to EN 50012

1 NO included



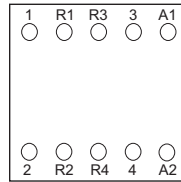
1 NC included



LSUD CONTACTORS, SIZE 00

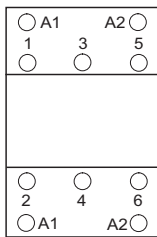
Terminal names according to EN 50005

2 NO + 2 NC main contacts



LSD0, LSS0, LSD2, LSD3 CONTACTORS, SIZE 0-3

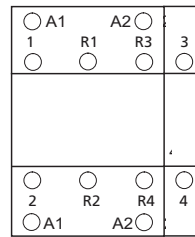
Terminal names according to EN 50012



LSU0, LSU2 CONTACTORS, SIZE 0-2

Terminal names according to EN 50005

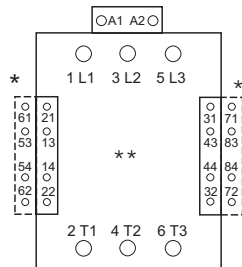
2 NO + 2 NC main contacts



LSD6, LSDE, LSDG CONTACTORS, SIZE 6-12

Terminal names according to EN 50012. Contactors equipped with 2 lateral auxiliary contact blocks LSZ0D711 (2 NO + 2 NC). Extension to 4 NO + 4 NC either with 2 lateral auxiliary contact blocks LSZ3D811* or with 4 front auxiliary contacts LSZ0D0.., LSZ0D9..** possible.

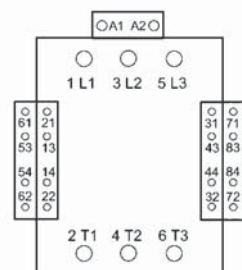
2 NO + 2 NC (4 NO + 4 NC)



LSDH6 AND LSDH8 VACUUMCONTACTORS, SIZE 14

Terminal names according to EN 50012, no further auxiliary contacts possible).

4 NO + 4 NC

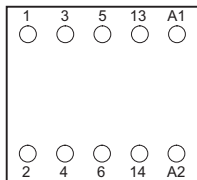


LA1 CONTACTORS AND ACCESSORIES – LOCATION OF THE CONNECTION TERMINALS

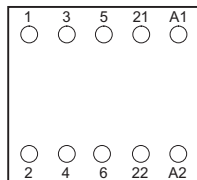
LA1 MINIATUR POWER CONTACTOR 3-POLE

Terminal designations according to EN 50012

LA10091.
1 NO included



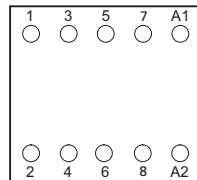
LA10092.
1 NC included



LA1 MINIATUR POWER CONTACTOR 4-POLE

Terminal designations according to EN 50005

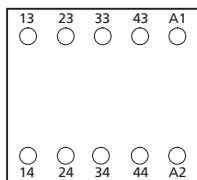
LA10094.
4 NO



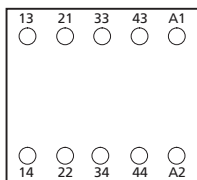
LA1 MINIATUR AUXILIARY CONTACTOR

Terminal designations according to EN 50011

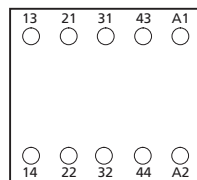
LA10077.
4 NO



LA10078.
3 NO + 1 NC



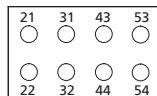
LA10079.
2 NO + 2 NC



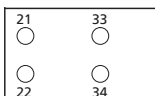
LA1 MINIATUR POWER CONTACTORS WITH 1 NO INCLUDED

front mounted auxiliary contact blocks, terminal designations according to EN 50012

LA190150
2 NO + 2 NC



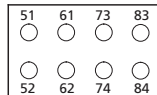
LA190151
1 NO + 1 NC



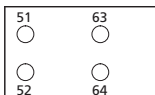
LA1 MINIATURPOWER CONTACTORS WITH 1 NC INCLUDED

front mounted auxiliary contact blocks, terminal designations according to EN 50005

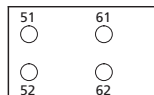
LA190153
2 NO + 2 NC



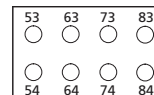
LA190154
1 NO + 1 NC



LA190155
2 NC



LA190156
4 NO



LS CONTACTORS AND ACCESSORIES – WIRING DIAGRAM

AUXILIARY CONTACT BLOCKS, 1-POLE, SIZE 0-12

Terminal names according to EN 50005

LSZ0D0 auxiliary contact blocks, 1-pole

LSZ0D010

1 NO



LSZ0D001

1 NC



LSZ0D9.. Auxiliary contact blocks, 1-pole

LSZ0D910

1 NO

early-make



LSZ0D901

1 NC

delayed

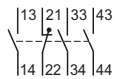


AUXILIARY CONTACT BLOCKS, 4-POLE, SIZE 0-12

Terminal names according to EN 50012

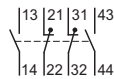
LSZ0D131

3 NO + 1 NC



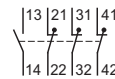
LSZ0D122

2 NO + 2 NC



LSZ0D113

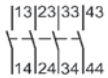
1 NO + 3 NC



Terminal names according to EN 50005

LSZ0D140F

4 NO



LSZ0D131F

3 NO + 1 NC



LSZ0D122F

2 NO + 2 NC



LSZ0D104F

4 NC



AUXILIARY CONTACT BLOCK – SIDE 1ST POSITION, 2-POLE, SIZE 0-12

Terminal names according to EN 50012

LSZ0D711

1 NO + 1 NC

left



LSZ0D711

1 NO + 1 NC

right



AUXILIARY CONTACT BLOCK – SIDE 2ND POSITION, 2-POLE, SIZE 3-12

Terminal names according to EN 50012

LSZ3D811

1 NO + 1 NC

left



LSZ3D811

1 NO + 1 NC

right



SURGE SUPPRESSOR AND INTERFERENCE SUPPRESSION DIODES SIZE 00 (PLUGGABLE), SIZE 0-12 (SNAP-ON)

Diode



Varistor



RC element



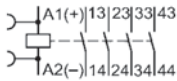
LS CONTACTORS AND ACCESSORIES – WIRING DIAGRAM

LSHD AUXILIARY CONTACTORS, SIZE 00

Terminal names according to EN 50011¹⁾, Surge suppressor can be plugged on.

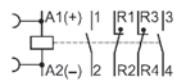
LSHD067.

4 NO



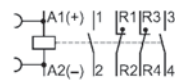
LSHD068.

3 NO + 1 NC



LSHD069.

2 NO + 2 NC



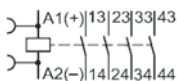
¹⁾ Appropriate auxiliary contact blocks according to EN 50005 LSZD05.. and LSZDH5..

LSHD..N AUXILIARY CONTACTORS FOR PLC, SIZE 00

Terminal names according to EN 50011, no further auxiliary contacts possible, surge suppressor can be plugged on.

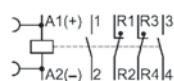
LSHD067N

4 NO



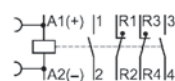
LSHD068N

3 NO + 1 NC



LSHD069N

2 NO + 2 NC

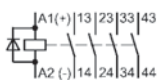


LSHD..G AUXILIARY CONTACTORS FOR PLC, SIZE 00

Terminal names according to EN 50011, no further auxiliary contacts possible, diode built-in.

LSHD067G

4 NO



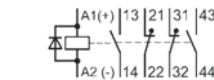
LSHD068G

3 NO + 1 NC



LSHD069G

2 NO + 2 NC



AUXILIARY CONTACT BLOCK FOR CONTACTORS LSDD, LSDD WITH INCLUDED NO CONTACT, SIZE 00

1 – 4-pole, terminal names according to EN 50012.

LSZDD201

1 NC



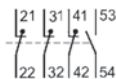
LSZDD212

1 NO + 2 NC



LSZDD213

1 NO + 3 NC



LSZDD222

2 NO + 2 NC



AUXILIARY CONTACT BLOCKS FOR CONTACTORS LSDD, LSDD WITH INCLUDED NC CONTACT AND FOR CONTACTORS LSHD, LSRD AND LSUD, SIZE 00

Terminal names according to EN 50005.

LSZD05.. Auxiliary contact blocks, 1-pole

Cable connection from below

LSZD0510

1 NO



LSZD0501

1 NC



LSZDH5.. Auxiliary contact blocks, 4-pole

LSZDH540

4 NO



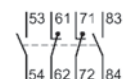
LSZDH531

3 NO + 1 NC



LSZDH522

2 NO + 2 NC

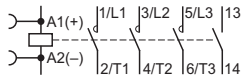


LS CONTACTORS AND ACCESSORIES – WIRING DIAGRAM

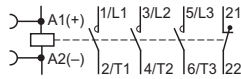
LSDD, LSSD CONTACTORS, SIZE 00

Terminal names according to EN 50012

LSDD, LSSD contactors
1 NO included



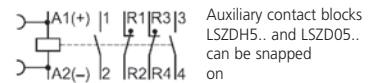
LSDD, LSSD contactors
1 NC included



LSUD CONTACTORS, SIZE 00

Terminal names according to EN 50005

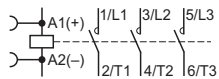
LSUD contactors
2 NO + 2 NC main contacts



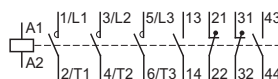
LSD0, LSS0, LSD2, LSD3, LSD6, LSDE, LSDG CONTACTORS, SIZE 0-12

Terminal names according to EN 50012

LSD0, LSS0, LSD2, LSD3 contactors



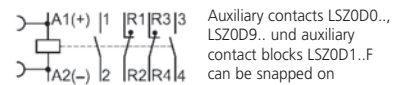
LSD6, LSDE, LSDG contactors
2 NO + 2 NC included



LSU0 CONTACTORS, SIZE 0

Terminal names according to EN 50005

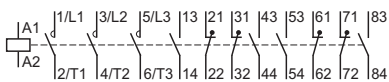
LSU0 contactors
2 NO + 2 NC main contacts



LSDH6 AND LSDH8 VACUUM CONTACTORS, SIZE 14

Terminal names according to EN 50012

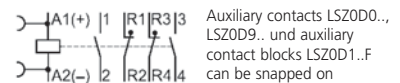
4 NO + 4 NC included



LSU2 CONTACTORS, SIZE 2

Terminal names according to EN 50005

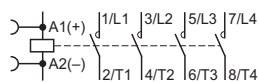
LSU2 contactors
2 NO + 2 NC main contacts



LSRD CONTACTORS WITH 4 MAIN CONTACTS, SIZE 00

Terminal names according to EN 50005

4 NO main contacts

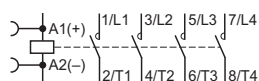


Auxiliary contact blocks LSZDH5.. and LSZD05.. can be snapped on

LSR0, LSR2, LSR3 CONTACTORS WITH 4 MAIN CONTACTS, SIZE 0-3

Terminal names according to EN 50005

4 NO main contacts



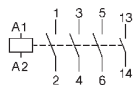
Auxiliary contacts LSZD00.., LSZD09.. and auxiliary contact blocks LSZD01..F can be snapped on

LA1 CONTACTORS AND ACCESSORIES – WIRING DIAGRAM

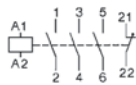
LA1 MINIATUR POWER CONTACTOR 3-POLE

Terminal designations according to EN 50012

LA10091.
1 NO included



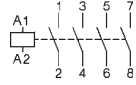
LA10092.
1 NC included



LA1 MINIATUR POWER CONTACTOR 4-POLE

Terminal designations according to EN 50005

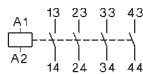
LA10094.
4 NO



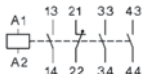
LA1 MINIATUR AUXILIARY CONTACTOR

Terminal designations according to EN 50011

LA10077.
4 NO



LA10078.
3 NO + 1 NC



LA10079.
2 NO + 2 NC



LA1 MINIATUR POWER CONTACTORS WITH 1 NO INCLUDED

Terminal designations according to EN 50012

LA190150
2 NO + 2 NC



LA190151
1 NO + 1 NC



LA1 MINIATUR POWER CONTACTORS WITH 1 NC INCLUDED

Terminal designations according to EN 50005

LA190153
2 NO + 2 NC



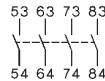
LA190154
1 NO + 1 NC



LA190155
2 NC

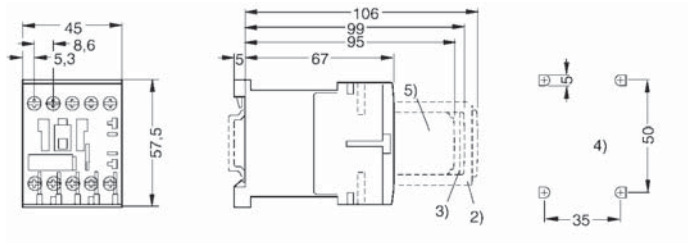


LA190156
4 NO



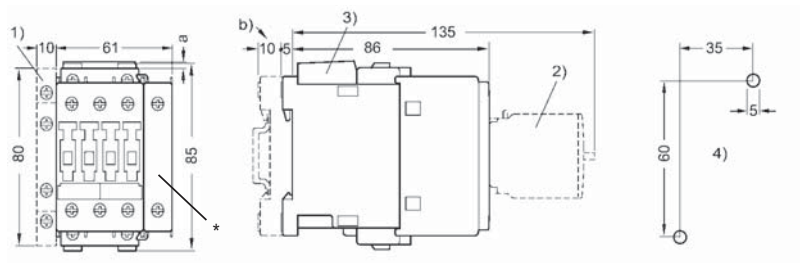
LSR, LSU CONTACTORS, 4-POLE – DIMENSIONS

LSRD, LSUD CONTACTORS, SIZE 00



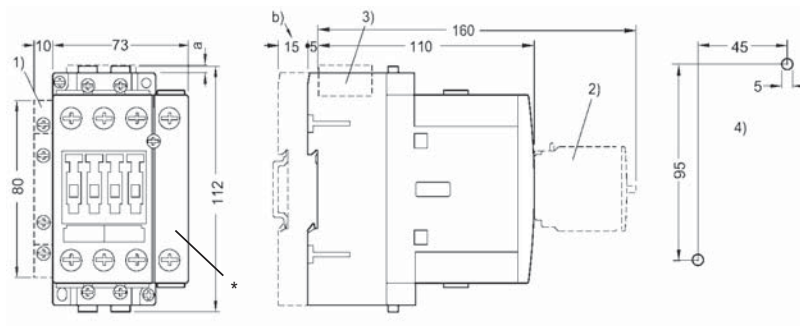
- ²⁾ Auxiliary contact block, 4-pole
- ³⁾ Surge suppressor
- ⁴⁾ Drilling plan
- ⁵⁾ Auxiliary contact block, 1-pole

LSR0, LSU0 CONTACTORS, SIZE 0



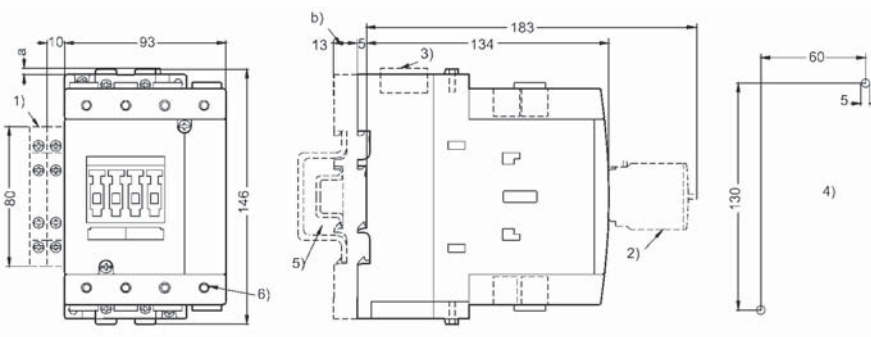
- a = 3 mm at < 250 V with surge suppressor
- a = 7 mm at < 250 V with surge suppressor
- b = DC version 10 mm lower than AC version
- ¹⁾ Side-mounted auxiliary contact block
- ²⁾ Front-mounted auxiliary contacts and contact blocks, 1- and 4-pole
- ³⁾ Surge suppressor
- ⁴⁾ Drilling plan
- * 4th pole can be moved to left side without tools

LSR2, LSU2 CONTACTORS, SIZE 2



- a = 0 mm at < 240 V with surge suppressor
- a = 3.5 mm at < 240 V with surge suppressor
- a = 17 mm with a surge suppressor or diode
- b = size 2: DC version 15 mm lower than AC version
- ¹⁾ Side-mounted auxiliary contact block (right or left)
- ²⁾ Front-mounted auxiliary contacts and contact blocks, 1- and 4-pole
- ³⁾ Surge suppressor
- ⁴⁾ Drilling plan
- ⁵⁾ For mounting on DIN rail TH35 (15 mm) or TH75 (EN 60715)
- ⁶⁾ Hexagon socket 4 mm
- * 4th pole can be moved to left side without tools

LSR3, CONTACTORS, SIZE 3



- a = 0 mm at < 240 V with surge suppressor
- a = 3.5 mm at < 240 V with surge suppressor
- a = 17 mm with a surge suppressor or diode
- b = size 3: DC version 13 mm lower than AC version
- ¹⁾ Side-mounted auxiliary contact block (right or left)
- ²⁾ Front-mounted auxiliary contacts and contact blocks, 1- and 4-pole
- ³⁾ Surge suppressor
- ⁴⁾ Drilling plan
- ⁵⁾ For mounting on DIN rail TH35 (15 mm) or TH75 (EN 60715)
- ⁶⁾ Hexagon socket 4 mm
- * 4th pole can be moved to left side without tools