

Data Sheet for Article: LTD01220--

Contactor 5.5kW/400V/ 12A, 1 NC, coil 24VAC

Size type 0, Product category Power contactor, Rated current 12A, Coil voltage 24V, Included auxiliary contacts 1 NC



Technical Data

Size type	0
Product category	Power contactor
Included auxiliary contacts	1 NC
Coil voltage	24V
Rated current (A)	12
Standard	IEC EN 60947-4-1 IEC EN 60947-5-1 UL 508
Lifespan, mechanical AC operated	10000000 Operations
Operating frequency, mechanical AC operated	9000 Operations/h
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature Open (°C)	-25 / +60
Ambient temperature Enclosed (°C)	-25 / +40
Ambient temperature Storage (°C)	-40 / +80
Mech. shock resistance Half-sinusoidal shock 10ms	-

Technical Data - continued

Main contacts NO contact (g)	10
Auxiliary contacts NO contact (g)	7
Auxiliary contacts NC contact (g)	5
Mech. shock resist. Half-sinusoidal shock horizon.	-
Main contacts N/O contact (g)	5,7
Auxiliary contacts N/O contact (g)	3,4
Auxiliary contacts N/C contact (g)	3,4
IP Rating	IP20
When actuated from front (EN 50274)	Finger and back-of-hand proof
Weight (kg)	-
AC-operated	0,24
Terminal cross-section main contact (mm ²)	-
Solid [main cable] (mm ²)	1 x (0,75 - 4) 2 x (0,75 - 2,5)
Flexible with ferrule [main cable] (mm ²)	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
Solid or stranded [main cable] (AWG)	single 18 - 10, double 18 - 14
Stripping length [main cable] (mm)	10
Terminal screw [main cable]	M3,5
Tightening torque [main contact] (Nm)	1,20
Tools [main cable]	-
Philips/Pozidriv screwdriver [main cable]	PZ 2
Standard screwdriver [main cable] (mm)	0,8 x 5,5 1 x 6
Terminal capacity auxiliary contact (mm ²)	-
Solid [auxiliary cables] (mm ²)	1 x (0,75 - 4) 2 x (0,75 - 2,5)
Flexible with ferrule [auxiliary cables] (mm ²)	1 x (0,75 - 2,5) 2 x (0,75 - 2,5)
Solid or stranded [auxiliary cables] (AWG)	18 - 14
Stripping length [auxiliary cables] (mm)	10
Terminal screw [auxiliary cables]	M3,5
Tightening torque [auxiliary contact] (Nm)	1,20
Tools [auxiliary cables]	-
Philips/Pozidriv screwdriver [auxiliary cables]	PZ 2
Standard screwdriver [auxiliary cables]	0,8 x 5,5 1 x 6
Rated impulse withstand voltage [Uimp] (V)	8000
Overvoltage category/pollution degree	III/3
Rated insulation voltage [Ui] (V)	690
Rated operational voltage (V)	690
Safe isolation to EN 61140	-
Between coil and contacts (VAC)	400
Between the contacts (VAC)	400
Making capacity p.f. to IEC/EN 60947 up to 690 V (A)	144
Breaking capacity	-
220 V 230 V (A)	120

Technical Data - continued

380 V 400 V (A)	120
500 V (A)	100
660 V 690 V (A)	70
Short circuit withstand	-
Short-circuit protection maximum fuse	-
Type „2“ coordination 400 V [gG/gL 500 V] (A)	20
Type „2“ coordination 690 V [gG/gL 690 V] (A)	20
Type „1“ coordination 400 V [gG/gL 500 V] (A)	35
Type „1“ coordination 690 V [gG/gL 690 V] (A)	25
AC-1	-
AC-1 Rated operational current	-
Conventional free air therm. current 3pole 50-60Hz	-
Open at 40 °C [I _{th} =I _e] (A)	22
Open at 50 °C [I _{th} =I _e] (A)	21
Open at 55 °C [I _{th} =I _e] (A)	21
Open at 60 °C [I _{th} =I _e] (A)	20
Enclosed [I _{th}] (A)	18
Convent. free air thermal cur. 1pole Open[I _{th}] (A)	50
Convent. free air thermal cur. 1pole Enclosed[I _{th}] (A)	45
AC-3	-
AC-3 Rated operational current	-
AC-3 Open, 3-pole: 50 – 60 Hz 220 V 230 V [I _e] (A)	12
AC-3 Open, 3-pole: 50 – 60 Hz 240 V [I _e] (A)	12
AC-3 Open, 3-pole: 50 – 60 Hz 380 V 400 V [I _e] (A)	12
AC-3 Open, 3-pole: 50 – 60 Hz 415 V [I _e] (A)	12
AC-3 Open, 3-pole: 50 – 60 Hz 440 V [I _e] (A)	12
AC-3 Open, 3-pole: 50 – 60 Hz 500 V [I _e] (A)	10
AC-3 Open, 3-pole: 50 – 60 Hz 660 V 690 V [I _e] (A)	7
AC-3 Motor rating	-
AC-3 220 V 230 V [P] (kW)	3,5
AC-3 240V [P] (kW)	4
AC-3 380 V 400 V [P] (kW)	5,5
AC-3 415 V [P] (kW)	7
AC-3 440 V [P] (kW)	7,5
AC-3 500 V [P] (kW)	7
AC-3 660 V 690 V [P] (kW)	6,5
AC-4	-
AC-4 Rated operational current	-
AC-4 Open, 3-pole, 50 – 60 Hz 220 V 230 V [I _e] (A)	7
AC-4 Open, 3-pole, 50 – 60 Hz 240 V [I _e] (A)	7
AC-4 Open, 3-pole, 50 – 60 Hz 380 V 400 V [I _e] (A)	7
AC-4 Open, 3-pole, 50 – 60 Hz 415 V [I _e] (A)	7
AC-4 Open, 3-pole, 50 – 60 Hz 440 V [I _e] (A)	7

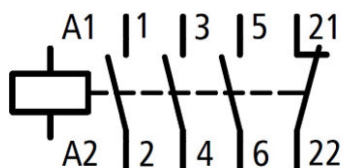
Technical Data - continued

AC-4 Open, 3-pole, 50 – 60 Hz 500 V [Ie] (A)	6
AC-4 Open, 3-pole, 50 – 60 Hz 660 V 690 V [Ie] (A)	5
AC-4 Motor rating	-
AC-4 220 V 230 V [P] (kW)	2
AC-4 240 V [P] (kW)	2,2
AC-4 380 V 400 V [P] (kW)	3
AC-4 415 V [P] (kW)	3,4
AC-4 440 V [P] (kW)	3,6
AC-4 500 V [P] (kW)	3,5
AC-4 660 V 690 V [P] (kW)	4,4
DC-1	-
DC-1 Rated operational current	-
DC-1 Open	-
60 V [Ie] (A)	20
110 V [Ie] (A)	20
220 V [Ie] (A)	15
Current heat loss	-
3-polig, bei Ith [60°] (W)	2,5
Bei Ie nach AC-3/400 V (W)	0,9
Impedance per pole (mΩ)	2,5
Magnet systems	-
Voltage tolerance AC operated [Pick-up] (x Uc)	0,8 - 1,1
Voltage tolerance AC operated [Drop-out] (x Uc)	0,3 - 0,6
Duty factor (% DF)	100
Main contacts	-
AC operated closing delay	15 - 21
AC operated opening delay	9 - 18
Arcing time (ms)	10
EMC Emitted interference	according to EN 60947-1
EMC Interference immunity	according to EN 60947-1
Rating data for approved types	-
Rated breaking capacity (kA)	-
Maximum motor rating Three-phase	-
Three-phase 200 V 208 V (HP)	3
Three-phase 230 V 240 V (HP)	3
Three-phase 460 V 480 V (HP)	10
Three-phase 575 V 600 V (HP)	10
Maximum motor rating Single-phase	-
Single-phase 115 V 120 V (HP)	1
Single-phase 230 V 240 V (HP)	2
Maximum motor rating General use (A)	20
Auxiliary contacts	-
Pilot Duty AC operated	A600

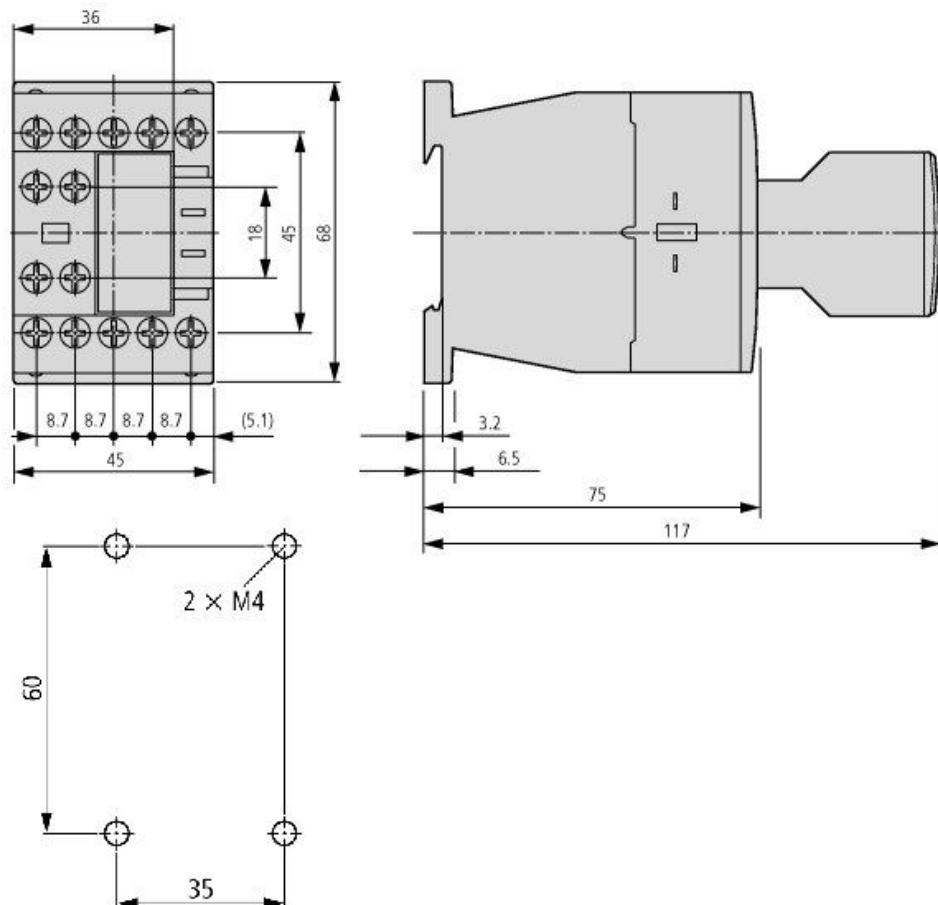
Technical Data - continued

Pilot Duty DC operated	P300
General Use AC (V)	600
General Use AC (A)	10
General Use DC (V)	250
General Use DC (A)	1
Short Circuit Current Rating	-
Basic Rating SCCR (kA)	5
Basic Rating max. Fuse (A)	45
Basic Rating max. CB (A)	60
480 V High Fault SCCR (fuse) (kA)	30/100
480 V High Fault max. Fuse (A)	25 Class RK5/45 Class J
600 V High Fault SCCR (fuse) (kA)	30/100
600 V High Fault max. Fuse (A)	25 Class RK5/45 Class J
Special Purpose Ratings	-
Elec. Discharge Lamps (Ballast) 480V 60Hz 3phase (A)	20
Elec. Discharge Lamps (Ballast) 277V 60Hz 1phase (A)	20
Elec. Discharge Lamps (Ballast) 600V 60Hz 3phase (A)	20
Elec. Discharge Lamps (Ballast) 347V 60Hz 1phase (A)	20
Incandescent Lamps (Tungsten) 480V 60Hz 3phase (A)	14
Incandescent Lamps (Tungsten) 277V 60Hz 1phase (A)	14
Incandescent Lamps (Tungsten) 600V 60Hz 3phase (A)	14
Incandescent Lamps (Tungsten) 347V 60Hz 1phase (A)	14
Resistance Air Heating 480V 60Hz 3phase (A)	20
Resistance Air Heating 277V 60Hz 1phase (A)	20
Resistance Air Heating 600V 60Hz 3phase (A)	20
Resistance Air Heating 347V 60Hz 1phase (A)	20
Refrig. Control (CSA only) LRA 480V 60Hz 3phase (A)	60
Refrig. Control (CSA only) FLA 480V 60Hz 3phase (A)	10
Refrig. Control (CSA only) LRA 600V 60Hz 3phase (A)	60
Refrig. Control (CSA only) FLA 600V 60Hz 3phase (A)	10
Def. Purpose Ratings(100,000 cycles acc.to UL1995)	-
LRA 480V 60Hz 3phase (A)	72
FLA 480V 60Hz 3phase (A)	12
Elevator Control 200V 60Hz 3phase (HP)	2
Elevator Control 200V 60Hz 3phase (A)	7,80
Elevator Control 240V 60Hz 3phase (HP)	2
Elevator Control 240V 60Hz 3phase (A)	6,80
Elevator Control 480V 60Hz 3phase (HP)	7,50
Elevator Control 480V 60Hz 3phase (A)	11
Elevator Control 600V 60Hz 3phase (HP)	7,50
Elevator Control 600V 60Hz 3phase (A)	9

Circuit diagram: Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC



Dimensioned drawing: Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC



Dimensioned drawing: Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC

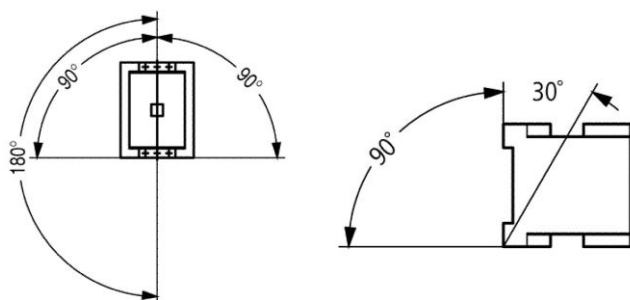


Diagram: Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC

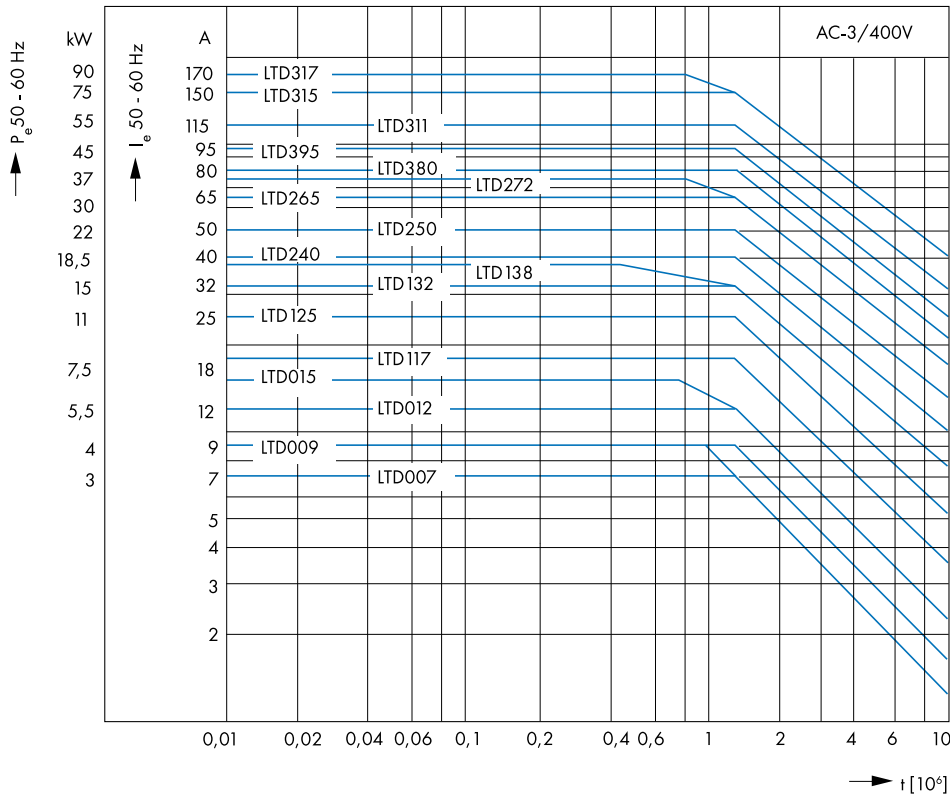


Diagram: Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC

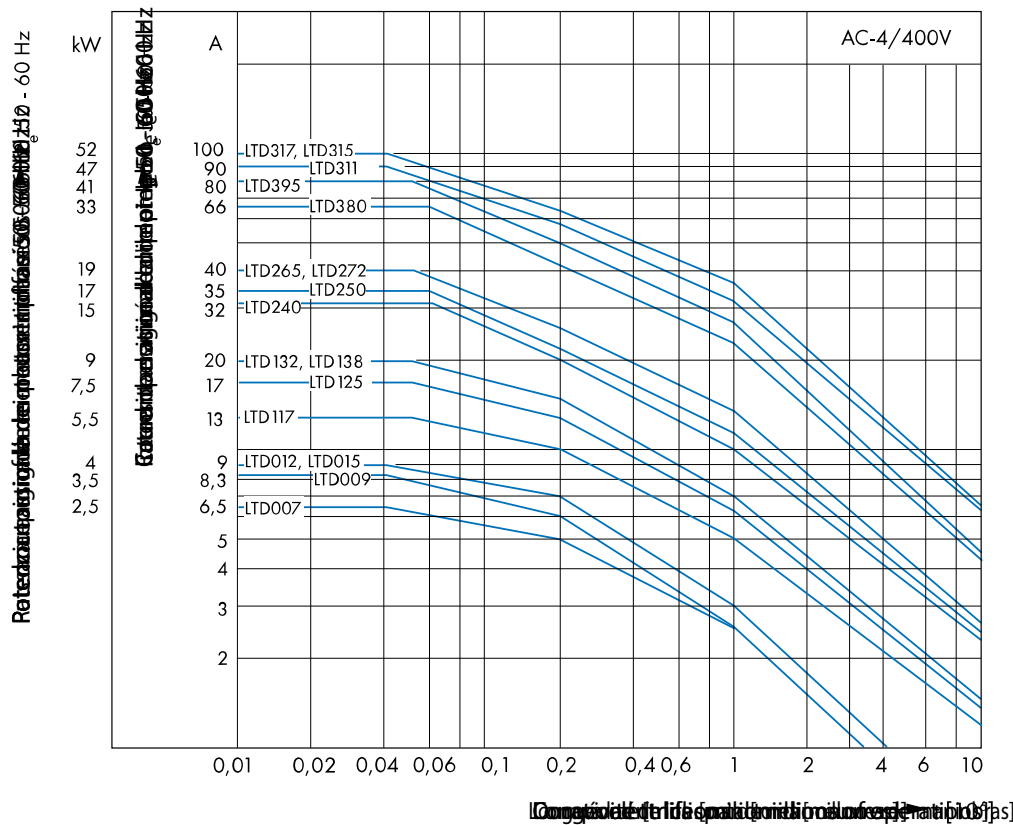
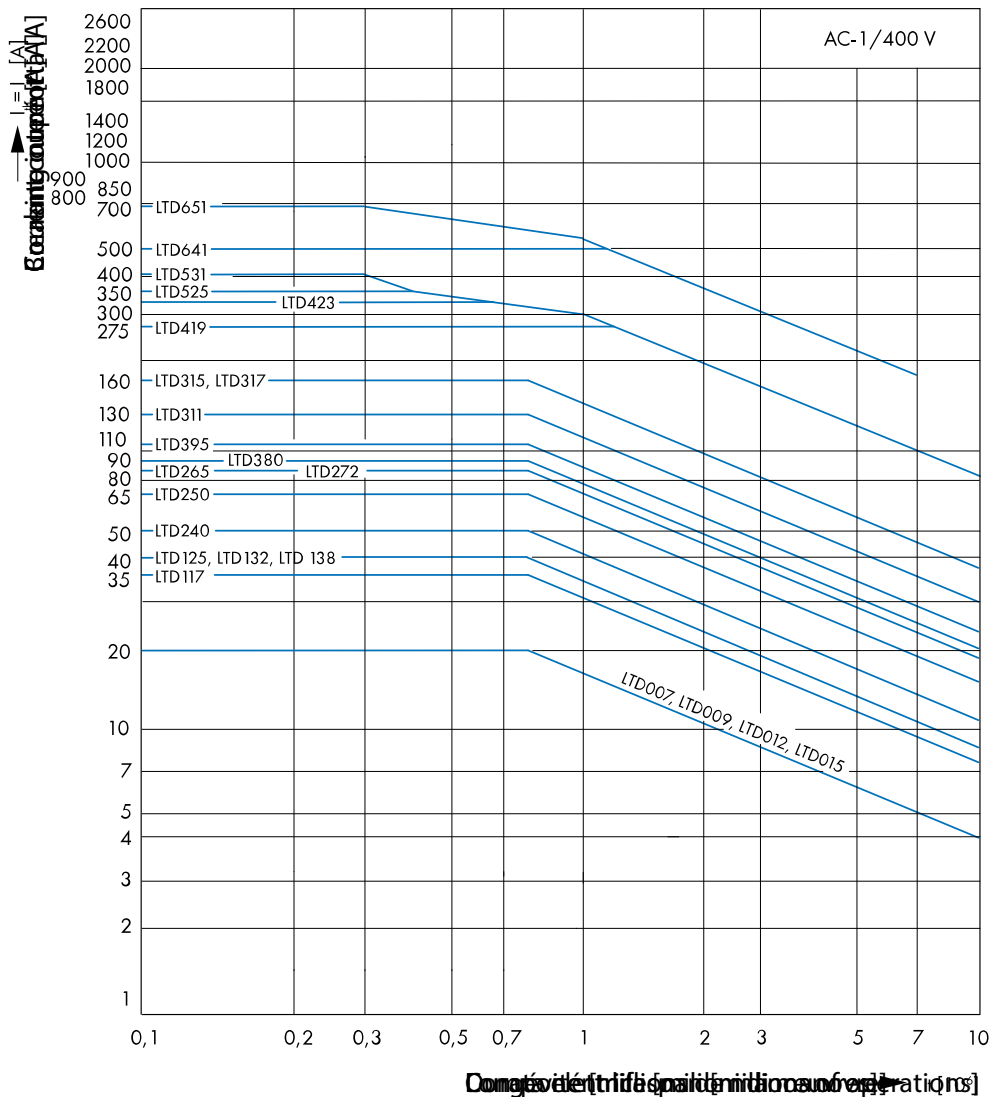


Diagram: Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC



Article Table

DESCRIPTION	Order No.
Contactor 5.5kW/400V/12A, 1 NC, coil 24VAC	LTD01220
Size type 0, Product category Power contactor, Rated current 12A, Coil voltage 24V, Included auxiliary contacts 1 NC	
Optional Accessories	
RC-suppressor for contactors size 0, 110-240VAC	LTD00001
Size type 0, Coil voltage 127-240V, Accessories Current limiter module	
Connector for contactors BGO and MSS BE5	LTD00005
Size type 0, Accessories Connection link	
Varistor-suppressor for contactors size 0, 24-48VAC	LTD00002
Size type 0, Coil voltage 24-48V, Accessories Current limiter module	

Article Table

DESCRIPTION	Order No.
Optional Accessories	
Varistor-suppressor for contactors size 0, 130-240VAC Size type 0, Coil voltage 127-240V, Accessories Current limiter module	LTZ00004
Mechanical interlock for contactors size 0 Size type 0, Accessories Locking device	LTZ0W001
Reversing wiring set for contactors size 0 Size type 0, Accessories el. Additional component	LTZ0W002
Connector for contactors size 0-2 Size type 1, Accessories Connection link	LTZ10005
Aux contact for aux.contacter, 2 NO + 2 NC , 1 NO + 1 NC msw Size type 0, Accessories Auxiliary contacts	LTZ0H322
Auxiliary contact for auxiliary contacter, 2 NC Size type 0, Accessories Auxiliary contacts	LTZ0H502
Auxiliary contact for auxiliary contacter, 4 NC Size type 0, Accessories Auxiliary contacts	LTZ0H504
Auxiliary contact for auxiliary contacter, 1 NO 1 NC Size type 0, Accessories Auxiliary contacts	LTZ0H511
Auxiliary contact for auxiliary contacter, 1 NO 3 NC Size type 0, Accessories Auxiliary contacts	LTZ0H513
Auxiliary contact for auxiliary contacter, 2 NO Size type 0, Accessories Auxiliary contacts	LTZ0H520
Auxiliary contact for auxiliary contacter, 2 NO 2 NC Size type 0, Accessories Auxiliary contacts	LTZ0H522
Auxiliary contact for auxiliary contacter, 3 NO 1 NC Size type 0, Accessories Auxiliary contacts	LTZ0H531
Auxiliary contact for auxiliary contacter, 4 NO Size type 0, Accessories Auxiliary contacts	LTZ0H540
Auxiliary contact for auxiliary contacter, 1 NO 1 NC delayed Size type 0, Accessories Auxiliary contacts	LTZ0H911
Varistor-suppressor for contactors size 0, 48-130VAC Size type 0, Coil voltage 110V, Accessories Current limiter module	LTZ00003