

Data Sheet for Article: LTD39533--

Contactors 45kW/400V/95A, coil 230VAC

Size 3



Technical Data

Standards	EN 60947-4-1, EN 60947-5-1, IEC 60947-4-1, IEC 60947-5-1, UL 508
Lifespan, mechanical AC operated	10000000 Operations
Operating frequency, mechanical AC operated	5000 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	-
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)	10
Auxiliary contacts N/O contact (g)	7
Auxiliary contacts N/C contact (g)	5
IP Rating	IP00
Protection against direct contact	-

Technical Data - continued

When actuated from front (EN 50274)	Finger and back-of-hand proof
Weight (kg)	-
AC-operated	2, 18
Terminal cross-section main contact (mm ²)	-
Solid [main cable] (mm ²)	1 x (0,75 - 16) 2 x (0,75 - 10)
Flexible with ferrule [main cable] (mm ²)	1 x (10 - 70) 2 x (10 - 50)
Stranded [main cable] (mm ²)	1 x (16 - 70) 2 x (16 - 50)
Solid or stranded [main cable] (AWG)	single 8...3/0, double 8...2/0
Band [lamella x width x thickness] (mm)	2 x (6 x 16 x 0.8)
Stripping length [main cable] (mm)	24
Terminal screw [main cable]	M10
Tightening torque [main contact] (Nm)	14
Tools [main cable]	-
Philips/Pozidriv screwdriver [main cable]	PZ 2
Standard screwdriver [main cable] (mm)	0,8 x 5,5 1 x 6
Allen wrench [main cable] (mm)	5
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)	690
Between the contacts (VAC)	690
Making capacity p.f. to IEC/EN 60947 up to 690 V (A)	1330
Breaking capacity	-
220 V 230 V (A)	950
380 V 400 V (A)	950
500 V (A)	950
660 V 690 V (A)	800
Short circuit withstand (kA)	-
Short-circuit protection maximum fuse	-

Technical Data - continued

Type „2“ coordination 400 V [gG/gL 500 V] (A)	160
Type „2“ coordination 690 V [gG/gL 690 V] (A)	160
Type „1“ coordination 400 V [gG/gL 500 V] (A)	250
Type „1“ coordination 690 V [gG/gL 690 V] (A)	200
AC-1	-
AC-1 Rated operational current	-
Conventional free air therm. current 3pole 50-60Hz	-
Open at 40 °C [I _{th} =I _e] (A)	130
Open at 50 °C [I _{th} =I _e] (A)	125
Open at 55 °C [I _{th} =I _e] (A)	115
Open at 60 °C [I _{th} =I _e] (A)	110
Enclosed [I _{th}] (A)	100
Convent. free air thermal cur. 1 pole Open[I _{th}] (A)	275
Convent. free air thermal cur. 1 pole Enclosed[I _{th}] (A)	250
AC-3	-
AC-3 Rated operational current	-
AC-3 Open, 3-pole: 50 – 60 Hz 220 V 230 V [I _e] (A)	95
AC-3 Open, 3-pole: 50 – 60 Hz 240 V [I _e] (A)	95
AC-3 Open, 3-pole: 50 – 60 Hz 380 V 400 V [I _e] (A)	95
AC-3 Open, 3-pole: 50 – 60 Hz 415 V [I _e] (A)	95
AC-3 Open, 3-pole: 50 – 60 Hz 440 V [I _e] (A)	95
AC-3 Open, 3-pole: 50 – 60 Hz 500 V [I _e] (A)	95
AC-3 Open, 3-pole: 50 – 60 Hz 660 V 690 V [I _e] (A)	80
AC-3 Motor rating	-
AC-3 220 V 230 V [P] (kW)	30
AC-3 240V [P] (kW)	32
AC-3 380 V 400 V [P] (kW)	45
AC-3 415 V [P] (kW)	57
AC-3 440 V [P] (kW)	60
AC-3 500 V [P] (kW)	70
AC-3 660 V 690 V [P] (kW)	75
AC-4	-
AC-4 Rated operational current	-
AC-4 Open, 3-pole, 50 – 60 Hz 220 V 230 V [I _e] (A)	50
AC-4 Open, 3-pole, 50 – 60 Hz 240 V [I _e] (A)	50
AC-4 Open, 3-pole, 50 – 60 Hz 380 V 400 V [I _e] (A)	50
AC-4 Open, 3-pole, 50 – 60 Hz 415 V [I _e] (A)	50
AC-4 Open, 3-pole, 50 – 60 Hz 440 V [I _e] (A)	50
AC-4 Open, 3-pole, 50 – 60 Hz 500 V [I _e] (A)	50
AC-4 Open, 3-pole, 50 – 60 Hz 660 V 690 V [I _e] (A)	37
AC-4 Motor rating	-
AC-4 220 V 230 V [P] (kW)	16
AC-4 240 V [P] (kW)	17

Technical Data - continued

AC-4 380 V 400 V [P] (kW)	26
AC-4 415 V [P] (kW)	30
AC-4 440 V [P] (kW)	32
AC-4 500 V [P] (kW)	36
AC-4 660 V 690 V [P] (kW)	35
DC-1	-
DC-1 Rated operational current	-
DC-1 Open	-
60 V [I _e] (A)	110
110 V [I _e] (A)	110
220 V [I _e] (A)	70
Current heat loss	-
3-polig, bei I _{th} [60°] (W)	16,9
Bei I _e nach AC-3/400 V (W)	12,6
Impedance per pole (mΩ)	0,6
Magnet systems	-
Voltage tolerance AC operated [Pick-up] (x U _c)	0,8 - 1,1
Voltage tolerance AC operated [Drop-out] (x U _c)	0,3 - 0,6
50 Hz [Pick-up] (VA)	310
50 Hz [Sealing] (VA)	26
50 Hz [Sealing] (W)	5,8
60 Hz [Pick-up] (VA)	345
60 Hz [Sealing] (VA)	30
60 Hz [Sealing] (W)	5,8
Duty factor (% DF)	100
Changeover time at 100 % U _s (Recommended value)	-
Main contacts	-
AC operated closing delay	14 - 20
AC operated opening delay	9 - 14
Arcing time (ms)	15
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)	30
Three-phase 230 V 240 V (HP)	40
Three-phase 460 V 480 V (HP)	75
Three-phase 575 V 600 V (HP)	100
Maximum motor rating Single-phase	-
Single-phase 115 V 120 V (HP)	7,50
Single-phase 230 V 240 V (HP)	15
Maximum motor rating General use (A)	125

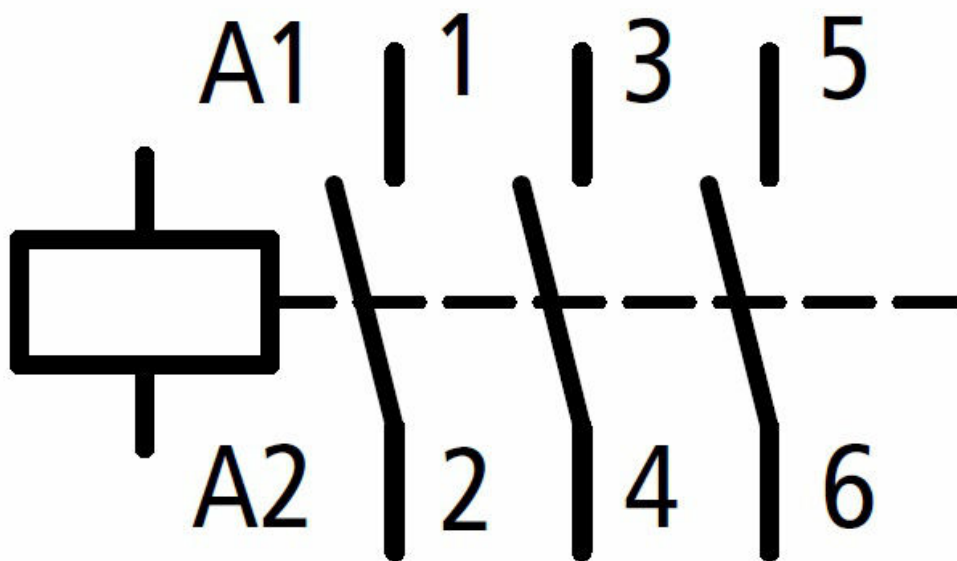
Technical Data - continued

Auxiliary contacts	-
Pilot Duty AC operated	A600
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)	10
Basic Rating max. Fuse (A)	600
Basic Rating max. CB (A)	600
480 V High Fault SCCR (fuse) (kA)	30/100
480 V High Fault max. Fuse (A)	300/300 Class J
480 V High Fault SCCR (CB) (kA)	65
480 V High Fault max. CB (A)	250
600 V High Fault SCCR (fuse) (kA)	30/100
600 V High Fault max. Fuse (A)	300/300 Class J
600 V High Fault SCCR (CB) (kA)	30
600 V High Fault max. CB (A)	350
Special Purpose Ratings	-
Elec. Discharge Lamps (Ballast) 480V 60Hz 3phase (A)	100
Elec. Discharge Lamps (Ballast) 277V 60Hz 1 phase (A)	100
Elec. Discharge Lamps (Ballast) 600V 60Hz 3phase (A)	100
Elec. Discharge Lamps (Ballast) 347V 60Hz 1 phase (A)	100
Incandescent Lamps (Tungsten) 480V 60Hz 3phase (A)	100
Incandescent Lamps (Tungsten) 277V 60Hz 1 phase (A)	100
Incandescent Lamps (Tungsten) 600V 60Hz 3phase (A)	100
Incandescent Lamps (Tungsten) 347V 60Hz 1 phase (A)	100
Resistance Air Heating 480V 60Hz 3phase (A)	100
Resistance Air Heating 277V 60Hz 1 phase (A)	100
Resistance Air Heating 600V 60Hz 3phase (A)	100
Resistance Air Heating 347V 60Hz 1 phase (A)	100
Refrig. Control (CSA only) LRA 480V 60Hz 3phase (A)	540
Refrig. Control (CSA only) FLA 480V 60Hz 3phase (A)	90
Refrig. Control (CSA only) LRA 600V 60Hz 3phase (A)	420
Refrig. Control (CSA only) FLA 600V 60Hz 3phase (A)	70
Def. Purpose Ratings(100,000 cycles acc.to UL1995)	-
LRA 480V 60Hz 3phase (A)	570
FLA 480V 60Hz 3phase (A)	95
Elevator Control 200V 60Hz 3phase (HP)	20
Elevator Control 200V 60Hz 3phase (A)	62, 10
Elevator Control 240V 60Hz 3phase (HP)	30
Elevator Control 240V 60Hz 3phase (A)	80

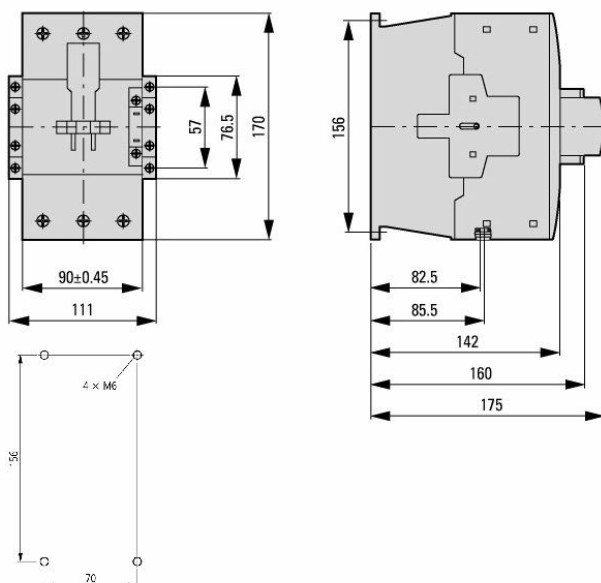
Technical Data - continued

Elevator Control 480V 60Hz 3phase (HP)	60
Elevator Control 480V 60Hz 3phase (A)	77
Elevator Control 600V 60Hz 3phase (HP)	75
Elevator Control 600V 60Hz 3phase (A)	77

Circuit diagram: Contactor 45kW/400V/95A, coil 230VAC



Dimensioned drawing: Contactor 45kW/400V/95A, coil 230VAC



Dimensioned drawing: Contactor 45kW/400V/95A, coil 230VAC

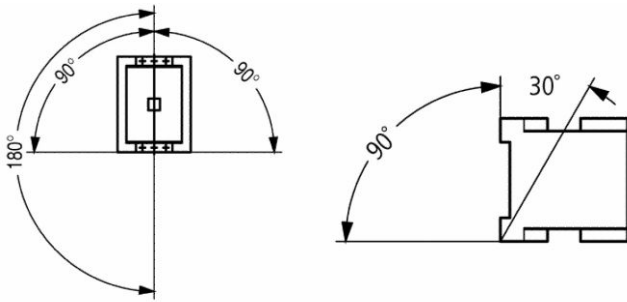


Diagram: Contactor 45kW/400V/95A, coil 230VAC

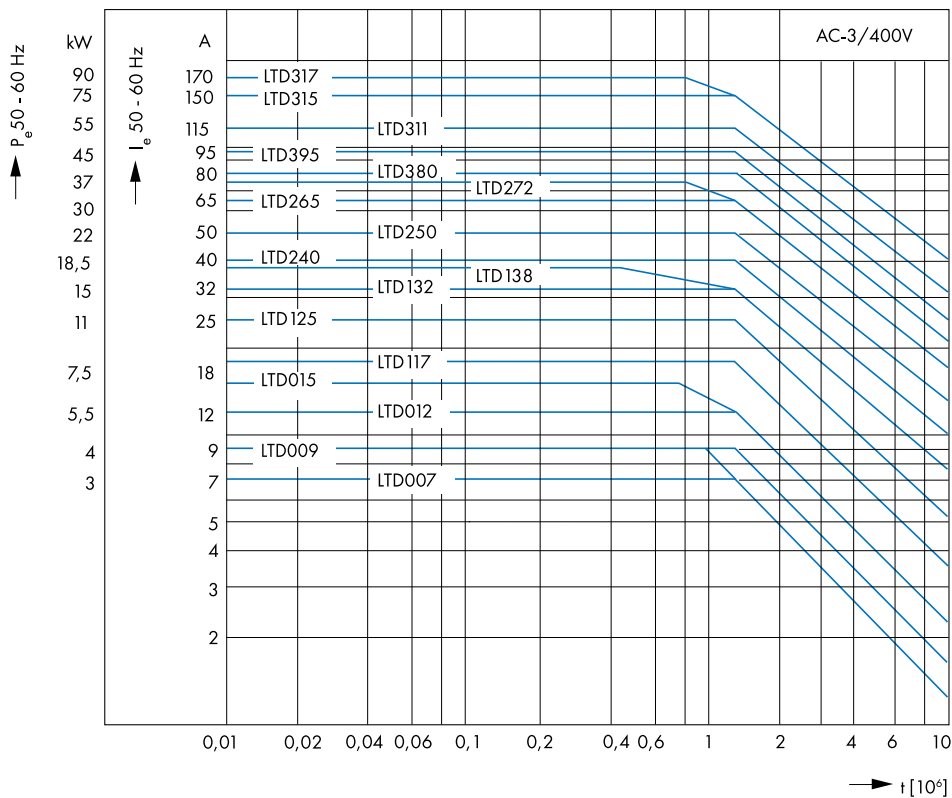


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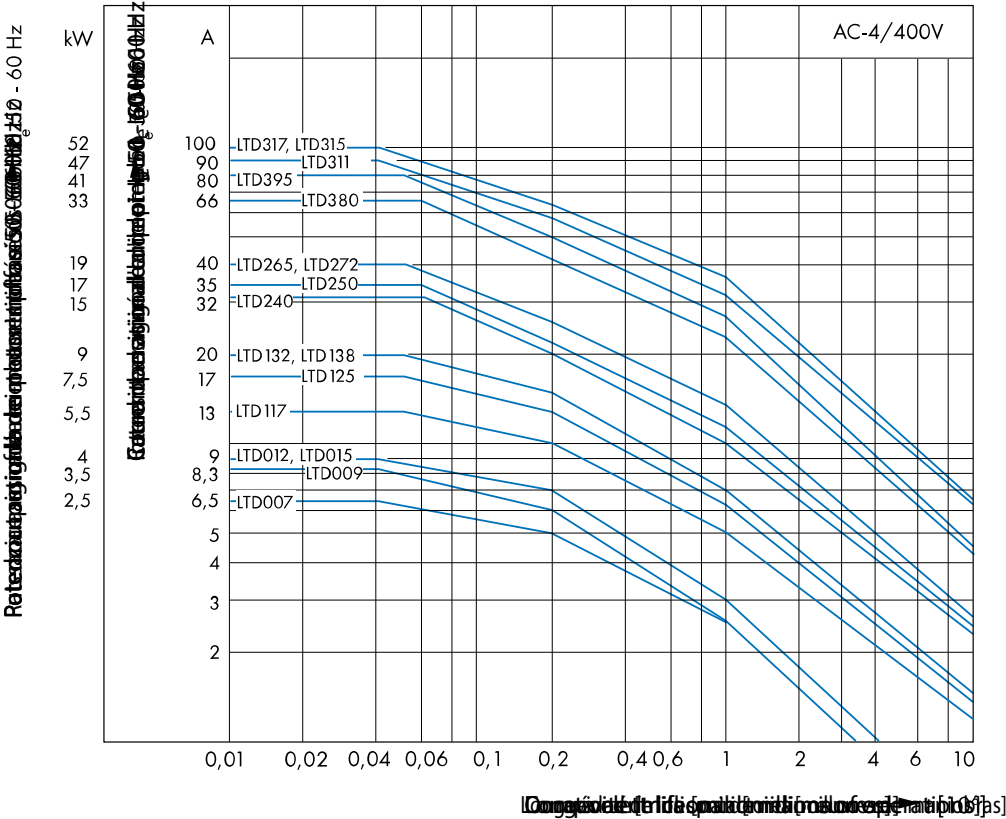


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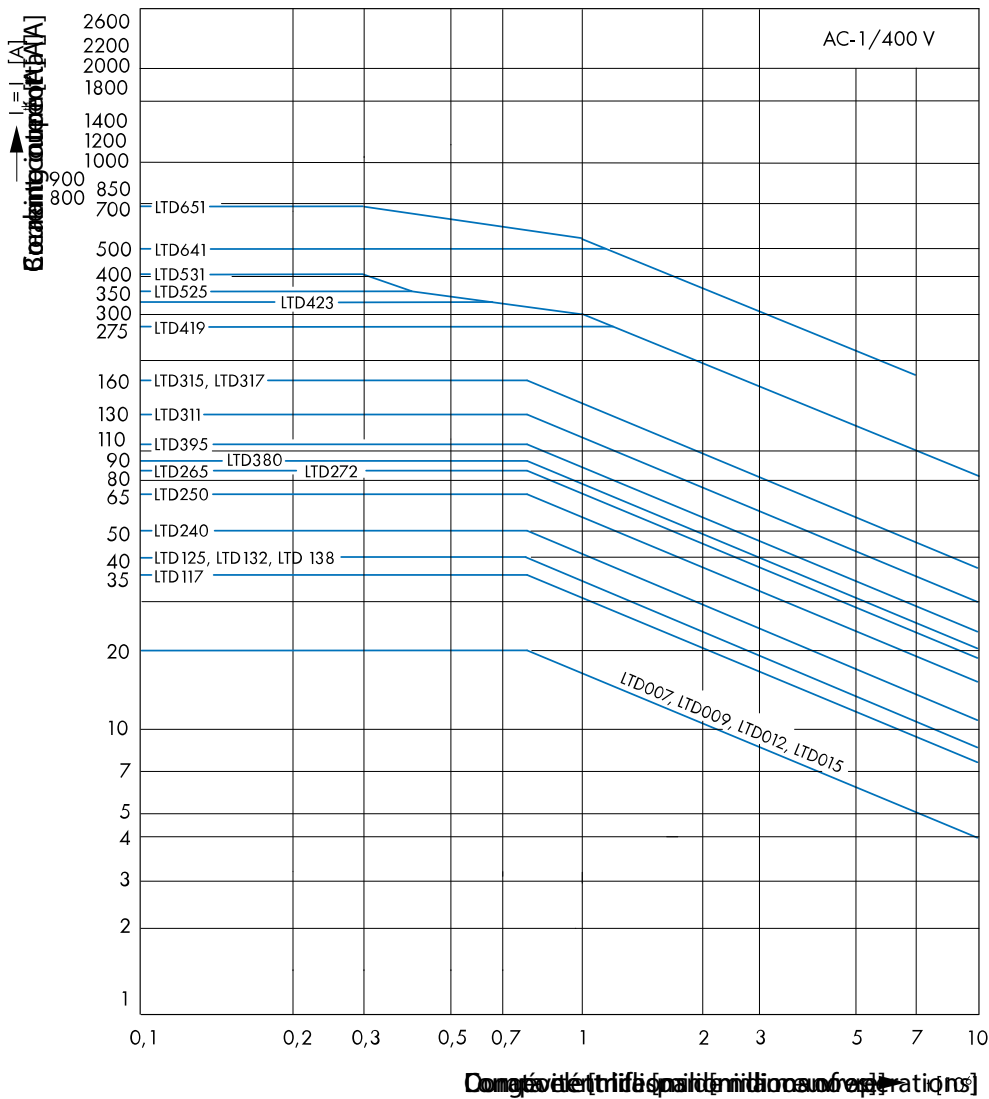
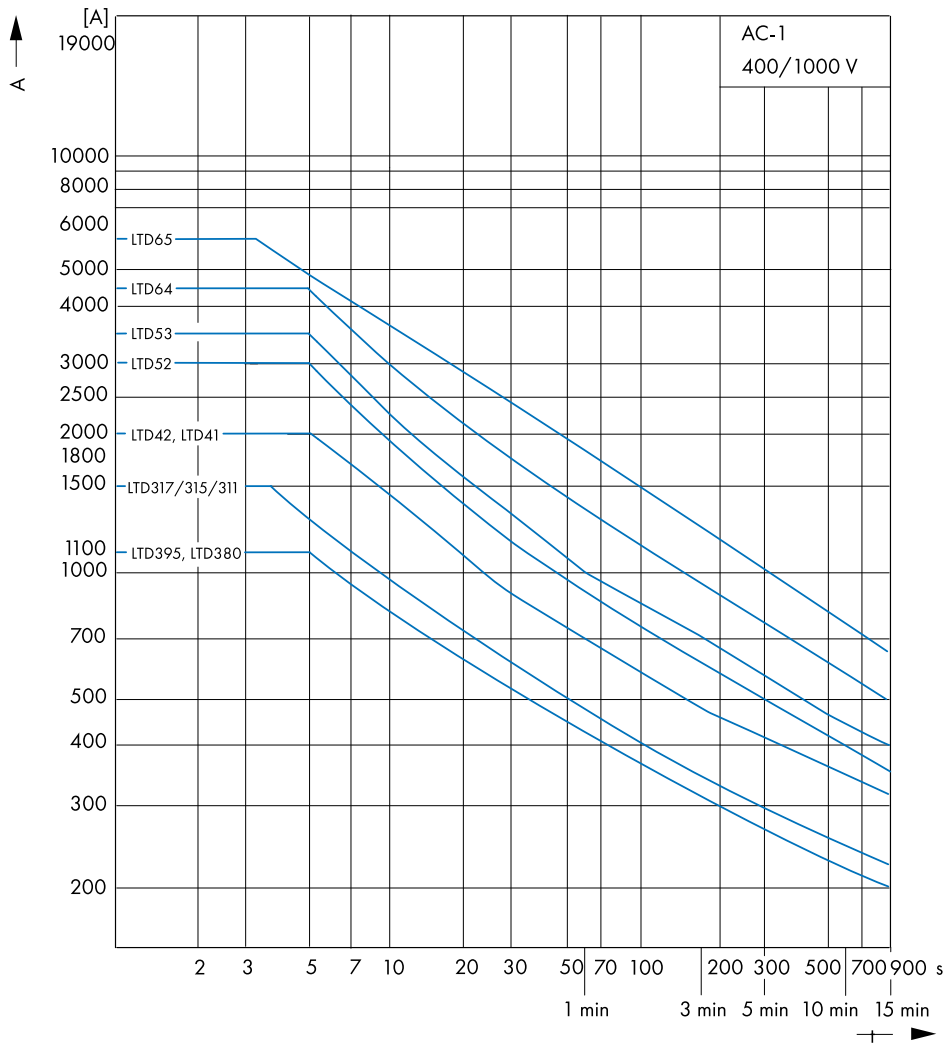


Diagram: Contactor 45kW/400V/95A, coil 230VAC



Article Table

DESCRIPTION	Order No.
Contactora 45kW/400V/95A, bobina 230VAC Size 3	LTD39533
Optional Accessories	
RC-suppressor für for contactors size 2-3, 110-240VAC Size 3	LTZ30001
Varistor-suppressor for contactors size 2-3, 24-48VAC Size 3	LTZ30002
Varistor-suppressor for contactors size 2-3, 48-130VAC Size 3	LTZ30003
Varistor-suppressor for contactors size 2-3, 130-240VAC Size 3	LTZ30004
Mechanical interlock for contactors size 3 Size 3	LTZ3W001
Reversing wiring set for contactors size 2 Size 2	LTZ2W002
Connector for contactors size 0-2 Size 1	LTZ10005
Auxiliary contact for contactor size 2-3, 2 NO Size 3	LTZ3D420
Auxiliary contact for contactor size 2-3, 1 NO 1 NC Size 3	LTZ3D411
Auxiliary contact for contactor size 2-3, 2 NC Size 3	LTZ3D402
Auxiliary contact for contactor size 2-3, 4 NO Size 3	LTZ3D140
Auxiliary contact for contactor size 2-3, 3 NO 1 NC Size 3	LTZ3D131
Auxiliary contact for contactor size 2-3, 2 NO 2 NC Size 3	LTZ3D122
Auxiliary contact for contactor size 2-3, 1 NO 3 NC Size 3	LTZ3D113
Auxiliary contact for contactor size 2-3, 4 NC Size 3	LTZ3D104
Aux contact for contactor S 2-4, 1 NO 1 NC, lateral 1. level Size 3	LTZ3D711
Aux contact for contactor S 2-4, 1 NO 1 NC, lateral 2. level Size 3	LTZ3D811
Connector for contactors size 3 Size 3	LTZ30005

