



Type LS-K 3-Pole (Open Type) AC Contactors

AEG

New Lower List Prices Than IC - 9 Main Catalog

3 N.O Power Poles

600 Volt AC



(1 Phase) Voltage		(3 Phase) Voltage				AMPS (600)		(1) ▲ ▲ Part #	List Price	2N.O./2N.C. Auxiliary Option ●● (2) Top Mount	Special List Price	Dimensions(mm) without aux. contacts W H D		
115	230	200	230	460	600	AC-1	UL/CSA general purpose							
.75	1.5	3	3	5	7.5	25	25A	LS4K.10*	\$ 75.00	LS4K.22T-*	\$ 90.00	45	81	85/115
.75	2	3	3	7.5	10	25	25A	LS5K.10*	\$ 87.00	LS5K.22T-*	\$ 102.00	45	81	85/115
1	3	5	5	10	15	32	32A	LS7K.10*	\$ 90.00	LS7K.22T-*	\$ 105.00	45	81	85/115
1.5	3	5	7.5	15	15	45	32A	LS11K.10*	\$ 105.00	LS11K.22T-*	\$ 120.00	45	81	87/117
2	5	10	10	20	25	60	54A	LS15K.10*	\$ 155.00	LS15K.22T-*	\$ 170.00	55	87	98/134
3	5	10	10	25	25	60	55A	LS18K.11*	\$ 170.00	LS18K.22T-*	\$ 177.00	55	87	98/134
3	7.5	15	15	30	40	90	80A	LS22K.11*	\$ 180.00	LS22K.22T-*	\$ 187.00	66	117.5	116/144
5	10	20	20	40	50	110	100A	LS30K.11*	\$ 255.00	LS30K.22T-*	\$ 262.00	66	117.5	116/144
5	15	20	25	50	60	110	110A	LS37K.11*	\$ 290.00	LS37K.22T-*	\$ 297.00	66	117.5	116/144
7.5	15	25	30	60	75	140	140A	LS45K.11*	\$ 380.00	LS45K.22T-*	\$ 387.00	75	117.5	126/154
10	20	30	40	75	75	140	140A	LS55K.11*	\$ 470.00	LS55K.22T-*	\$ 477.00	75	117.5	126/154
LS4K - LS55K are 35mm DIN Rail or Screw Mount										CONTACTORS LARGER THAN LS55K HAVE SIDE MOUNT AUX.				↑ AC/DC DEPTH ↑
40	50	100	125	250	156A					LS75K.22*	\$ 800.00	135	178	165.5
50	60	125	150	250	175A					LS90K.22*	\$ 1050.00	135	178	165.5
60	75	150	150	315	175A					LS110K.22*	\$ 1,164.00	150	212	208
60	75	150	150	315	200A					LS132K.22*	\$ 1,200.00	150	212	208
100	100	250	300	450	310A					LS160K.22*	\$ 1,400.00	150	212	208
125	150	300	400	600	500A					LS220K.22*	\$ 1,800.00	160	220	228
150	200	400	500	700	600A					LS280K.22*	\$ 2,770.00	160	220	228
200	250	500	600	1000	810A					LS375K.22*	\$ 3,800.00	210	270	262
350	450	900	900	1250	1215					LS450K.22*	\$ 6,500.00	464	380	327

* Coil Suffix - Add to Coil Suffix

For LS4K-LS18K (3Pole)		
AC	60Hz	50Hz
-G	24	24
-A	120	120
-B	200	200
-C	220	220
-H	277	230
-E	480	380
-F	600	500
DC ADD \$30 TO LIST		
-MSW	12VDC	
-NSW	24VDC	
-OSW	48VDC	
-PSW	110VDC	
-RSW	220VDC	

For LS22K-LS55K (3Pole)		
AC	60Hz	50Hz
-G	24	24
-A	120	120
-B	200	200
-C	220	220
-H	277	230
-E	480	380
-F	600	500
DC ADD \$60 TO LIST		
-NSW	24-28VDC	
-OSW	42-48VDC	
-PSW	110-127VDC	
-RSW	220-250VDC	

For LS75K-LS375K (3Pole)	
AC/DC	50/60 Hz + DC
-GN	24-28 V
-AP	110-127V
-CR	220-250V
-EX	440-500V
No DC Adders for these sizes	
For LS450 (3&4 Pole)	
(AC ONLY)	50/60Hz
-A	110-120V
-C	220-250V
-E	360-440V

To Order:

Select from the Horse Power and voltage list the appropriate contactor size. Once the size is determined, contactor coil suffix must be designated from the chart to the left.

Example :

5 HP 230 Volt load with a 120 VAC coil.

Part # : LS7K.10- A, List \$90.00.

(1) ▲ ▲ = For NEMA Labelled Contactors
Add Suffix - NA.No Additional Charge.

To have enclosed Contactors, see page 50, 51 Add list Discount schedule ST

(2) ● ● = For Side Mount Option Change "T" to "S" Same Price



TYPE LSK AC 3 POLE CONTACTORS

3 Phase Full Voltage-Across the Line

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				Size 00-2		CE		NEMA RATED			
AC-1	AC-3	Horse Power (UL) Ratings 3 Phase Voltage Max UL		OPEN	ENCLOSED					NEMA HP *	
		Volts	HP		NEMA 1 General Purpose	NEMA 4X ▶ Outdoor (non-metal)	NEMA 4 ▶ (metal)	NEMA 3R (metal)	NEMA 12 Dust Tight (metal)		
20	9	200V 3 HP 230V 3 HP 460V 5 HP LIST \$		LS05 -*O \$40.00	LS05 -*1 \$109.00	LS05 -*4X \$132.00	LS05 -*4 \$138.00	LS05 -*3R \$118.00	LS05 -*12 \$118.00	* See Below	
25	9	200V 3 HP 230V 3 HP 460V 5 HP 600V 7.5 HP LIST \$		LS4K -*O \$75.00	LS4K -*1 \$144.00	LS4K -*4X \$177.00	LS4K -*4 \$187.00	LS4K -*3R \$147.00	LS4K -*12 \$147.00		
25	12	200V 3 HP 230V 3 HP 460V 7.5 HP 600V 10 HP LIST \$		LS5K -*O \$87.00	LS5K -*1 \$156.00	LS5K -*4X \$189.00	LS5K -*4 \$199.00	LS5K -*3R \$159.00	LS5K -*12 \$159.00	200V 1.5 HP 230V 1.5 HP 460V 2 HP 600V 2 HP NEMA 00	
32	18	200V 5 HP 230V 5 HP 460V 10 HP 600V 15 HP LIST \$		LS7K -*O \$90.00	LS7K -*1 \$159.00	LS7K -*4X \$192.00	LS7K -*4 \$202.00	LS7K -*3R \$162.00	LS7K -*12 \$162.00		
45	25	200V 5 HP 230V 7.5 HP 460V 15 HP 600V 15 HP LIST \$		LS11K -*O \$105.00	LS11K -*1 \$174.00	LS11K -*4X \$207.00	LS11K -*4 \$217.00	LS11K -*3R \$177.00	LS11K -*12 \$177.00	200V 3 HP 230V 3 HP 460V 5 HP 600V 5 HP NEMA 0	
60	32	200V 10 HP 230V 10 HP 460V 20 HP 600V 25 HP LIST \$		LS15K -*O \$155.00	LS15K -*1 \$214.00	LS15K -*4X \$237.00	LS15K -*4 \$257.00	LS15K -*3R \$217.00	LS15K -*12 \$217.00		
60	40	200V 10 HP 230V 10 HP 460V 25 HP 600V 25 HP LIST \$		LS18K -*O \$170.00	LS18K -*1 \$224.00	LS18K -*4X \$247.00	LS18K -*4 \$267.00	LS18K -*3R \$222.00	LS18K -*12 \$222.00	200V 7.5 HP 230V 7.5 HP 460V 10 HP 600V 10 HP NEMA 1	
90	50	200V 15 HP 230V 15 HP 460V 30 HP 600V 40 HP LIST \$		LS22K -*O \$180.00	LS22K -*1 \$229.00	LS22K -*4X \$282.00	LS22K -*4 \$302.00	LS22K -*3R \$244.00	LS22K -*12 \$244.00		
110	65	200V 20 HP 230V 20 HP 460V 40 HP 600V 50 HP LIST \$		LS30K -*O \$255.00	LS30K -*1 \$309.00	LS30K -*4X \$362.00	LS30K -*4 \$553.00	LS30K -*3R \$351.00	LS30K -*12 \$351.00		
110	80	200V 20 HP 230V 25 HP 460V 50 HP 600V 60 HP LIST \$		LS37K -*O \$290.00	LS37K -*1 \$359.00	LS37K -*4X \$412.00	LS37K -*4 \$629.00	LS37K -*3R \$389.00	LS37K -*12 \$389.00	200V 10 HP 230V 15 HP 460V 25 HP 600V 25 HP NEMA 2	

Modifications and accessories are listed on pages 65, 68 dimensions page 71,49

To Order:

Select from the Horse Power voltage list the appropriate contactor size. Once the size is determined, contactor coil suffix must be designated from the chart on next page.

Example:

5 HP 230V load with a 120VAC Coil, NEMA 1 Enclosure
Part#: LS7K-A1 \$159.00 List



TYPE LSK AC 3 POLE CONTACTORS

3 Phase Full Voltage-Across the Line

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Size 3-5											C€		NEMA RATED	
AC-1	AC-3	Horse Power (UL) Ratings 3 Phase Voltage		OPEN	ENCLOSED					NEMA HP *				
		Max UL Volts	HP		NEMA 1 General Purpose	NEMA 4X ▶ Outdoor (non-metal)	NEMA 4 ▶ (metal)	NEMA 3R (metal)	NEMA 12 Dust Tight (metal)					
140	95	200V 230V 460V 600V	25 HP 30 HP 60 HP 75 HP	LS45K -O	LS45K -1	LS45K -4X	LS45K -4	LS45K -3R	LS45K -12					
		LIST \$		\$380.00	\$467.00	\$533.00	\$819.00	\$533.00	\$533.00					
140	105	200V 230V 460V 600V	30 HP 40 HP 75 HP 75 HP	LS55K -O	LS55K -1	LS55K -4X	LS55K -4	LS55K -3R	LS55K -12	200V 230V 460V 600V	25 HP 30 HP 50 HP 50 HP			
		LIST \$		\$470.00	\$557.00	\$623.00	\$853.00	\$653.00	\$653.00	NEMA 3				
250	150	200V 230V 460V 600V	40 HP 50 HP 100 HP 125 HP	LS75K -O	LS75K -1	LS75K -4X	LS75K -4	LS75K -3R	LS75K -12					
		LIST \$		\$800.00	\$1,055.00	\$1,150.00	\$1,280.00	\$1,280.00	\$1,280.00					
250	185	200V 230V 460V 600V	50 HP 60 HP 125 HP 150 HP	LS90K -O	LS90K -1	LS90K -4X	LS90K -4	LS90K -3R	LS90K -12	200V 230V 460V 600V	40 HP 50 HP 100 HP 100 HP			
		LIST \$		\$1,050.00	\$1,305.00	\$1,400.00	\$1,822.00	\$1,642.00	\$1,642.00	NEMA 4				
315	205	200V 230V 460V 600V	60 HP 75 HP 150 HP 150 HP	LS110K -O	LS110K -1	LS110K -4X	LS110K -4	LS110K -3R	LS110K -12					
		LIST \$		\$1,164.00	\$1,759.00	\$1,954.00	\$2,669.00	\$2,196.00	\$2,196.00					
315	250	200V 230V 460V 600V	60 HP 75 HP 150 HP 150 HP	LS132K -O	LS132K -1	LS132K -4X	LS132K -4	LS132K -3R	LS132K -12					
		LIST \$		\$1,200.00	\$1,795.00	\$1,990.00	\$2,820.00	\$2,347.00	\$2,347.00					
450	309	200V 230V 460V 600V	100 HP 100 HP 250 HP 300 HP	LS160K -O	LS160K -1	LS160K -4X	LS160K -4	LS160K -3R	LS160K -12	200V 230V 460V 600V	75 HP 100 HP 200 HP 200 HP			
		LIST \$		\$1,400.00	\$1,995.00	\$2,190.00	\$2,849.00	\$2,376.00	\$2,376.00	NEMA 5				
600	420	200V 230V 460V 600V	125 HP 150 HP 300 HP 400 HP	LS220K -O	LS220K -1	LS220K -4X	LS220K -4	LS220K -3R	LS220K -12					
		LIST \$		\$1,800.00	\$2,525.00	\$3,497.00	\$5,305.00	\$3,537.00	\$3,537.00					
700	550	200V 230V 460V 600V	150 HP 200 HP 400 HP 500 HP	LS280K -O	LS280K -1	LS280K -4X	LS280K -4	LS280K -3R	LS280K -12					
		LIST \$		\$2,770.00	\$3,492.00	\$4,327.00	\$8,243.00	\$4,587.00	\$4,587.00					

*Coil
Suffix
Chart

For LS4K-LS18K (3 Pole)			
AC	60Hz	50Hz	
-G	24	24	
-A	120	120	
-B	200	200	
-C	220	220	
-H	277	230	
-E	480	380	
-F	600	500	
DC add \$30 to List			
-MSW	12 VDC		
-NSW	24 VDC		
-OSW	48 VDC		
-PSW	110 VDC		
-RSW	220 VDC		

For LS22K-LS55K (3 Pole)			
AC	60Hz	50Hz	
-G	24	24	
-A	120	120	
-B	200	200	
-C	220	220	
-H	277	230	
-E	480	380	
-F	600	500	
DC add \$60 to List			
-NSW	24-28 VDC		
-OSW	42-48 VDC		
-PSW	110-127 VDC		
-RSW	220-250 VDC		

For LS75K-LS375K (3 Pole)	
AC/DC	50/60 Hz + DC
-GN	24-28V
-AP	110-127V
-CR	220-250V
-EX	440-500V
No additional adder for DC.	

* Coil Suffix

Dimensions pages p.49, 71



TYPE LS-K 4-POLE AC CONTACTORS

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4 N.O POWER POLES (CODE - 4) 2 N.O. & 2 N.C. POWER POLES (CODE - 22)							600 VOLT AC CE			
Max Horsepower				AMPS (600V)		Part Number	List Price	DIMENSIONS (mm) without aux. contacts		
(3 Phase) Voltage				AC-1	UL/CSA Inductive			W	H	D^
200	230	460	600							
3	3	7.5	10	25	25	LS5K-4-*	\$92.00	81	45	85/115
						LS5K-22-*	92.00	81	45	85/115
5	5	10	15	32	32	LS7K-4-*	94.00	81	45	85/115
						LS7K-22-*	100.00	81	45	85/115
5	7.5	15	15	45	32	LS11K-4-*	120.00	87	55	98/134
						LS11K-22-*	120.00	87	55	98/134
10	10	20	25	60	54	LS15K-4-*	215.00	87	55	98/134
						LS15K-22-*	215.00	87	55	98/134
10	10	25	25	90	55	LS18K-4-*	260.00	118	87	119/147
						LS18K-22-*	260.00	118	87	119/147
20	20	50	50	110	100	LS30K-4-*	350.00	118	87	119/147
						LS30K-22-*	350.00	118	87	119/147
20	25	50	60	110	100	LS37K-22-*	398.00	118	87	119/147
25	30	60	75	140	140	LS45K-4-*	440.00	118	96	126/154
30	40	75	75	200	140	LS55K-4-*	627.00	200	150	176
50	60	125	125	325	156	LS90K-4-*	1,200.00	225	210	246
60	75	150	150	400	200	LS132K-4-*	1,745.00	225	210	246
100	100	200	300	500	310	LS160K-4-*	2,300.00	225	210	246
125	150	300	400	600	500	LS220K-4-*	2,800.00	218	214	228
150	200	400	500	700	650	LS280K-4-*	3,950.00	218	214	228
200	250	500	600	1000	810	LS375K-4-*	5,400.00	250	269	304
350	450	900	900	1250	1215	LS450K-4-*	9,450.00	380	558	327

NOTE: Above contactors, LS5K - LS55K are supplied without auxiliaries.

* **COIL SUFFIX** - Select coil from chart on the previous page.

For accessories - see page 65, 68.

▲ AC Depth/DC Depth



LS37K-22-A
4 pole (2 N.O. / 2 N.C., 100 Amp.)



LS450K-4. 11-A
4 pole (N.O., 1250 Amp.)

Standard Auxiliary Contacts (4-Pole Contactors)	
Contactors	Standard Auxiliary
LS4K - LS55K	Without Auxiliary
LS90K - LS450K	1N.O., 1 N.C.

Accessories on page 66.

TYPE LS-K CONTACTORS

TECHNICAL SPECIFICATIONS

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LS-K CONTACTORS FROM LS 4K TO LS 18K INTERNATIONAL RATINGS



Type	LS 4K	LS 5K	LS 7K	LS 11K	LS 15K	LS 18K
Style	3 pole	3 pole 4 pole	3 pole 4 pole	3 pole 4 pole	3 pole 4 pole	3 pole 4 pole
Rated insulation voltage U_i						
	Pollution degree 3					
	V	1000	1000	1000	1000	1000
Rated impulse voltage U_{imp}						
	kV	6	6	6	6	6
Mechanical endurance						
AC - operation	Operations	15	15	15	15	15
DC - operation	Operations	15	15	15	15	15
Utilization category AC-1						
Rated power values at resistive load						
Rated power value P_N	3~230 V	kW	9.5	9.5	12	17
	3~400 V	kW	16.5	16.5	22	29
	3~500 V	kW	21.5	21.5	27.5	39
	3~690 V	kW	28.5	28.5	38	51
Rated current I_N up to 690 V	Amps	25	25	32	45	60
Minimum wire cross-section under rated load I_N	mm ²	4	4	6	10	16
Admissible practical operation frequency	ops/h	1200	1200	1200	1200	1200
Rated current at 1000 ops/h	A	25	25	32	45	60
Utilization category AC-3						
Rated power values of AC induction type motors						
Rated power value P_N	3~230 V	kW	2.2	3	4	7.5
	3~400 V	kW	4	5.5	7.5	11
	3~415 V	kW	4	5.5	7.5	11
	3~500 V	kW	5.5	7.5	10	15
Rated current I_N up to 440 V	Amps	9	12	18	25	32
Admiss. switching freq. at P_N and cont. cycling	ops/h	1200	1200	1200	1200	1200
Utilization category AC-4						
Rated power values of AC induction type motors						
Rated power value P_N	3~230 V	kW	1.1	1.5	1.8	3
	3~400 V	kW	2.2	3	3.7	5.5
	3~500 V	kW	3	4	5.5	7.5
	3~690 V	kW	4	5.5	7.5	10
Rated current I_N with practical electrical endurance up to	3~440 V	Amps	5	7	8	12
Admissible switching frequency	ops/h	360	360	360	360	360
Maximum permissible load P_N	3~400 V	kW	4	5.5	7.5	11
I_N	3~400 V	A	9	12	18	25
Utilization category AC-6b						
Rated power values of AC capacitors (minimum inductance between parallel connected capacitors 6 µH)						
Single / Parallel operation	3~230 V	kvar	2.5/2.5	3/3	3/3	7/6.5
	3~400 V	kvar	4 / 4	5/5	5/5	13/11
	3~525 V	kvar	4 / 4	6/5	6/5	17/13
	3~690 V	kvar	4 / 4	6/5	6/5	17/12.5
DC-switching Rated current I_N						
3 contacts connected in series (all DC-motors $L/R \leq 15$ ms)						
DC-1 (resistive load)	24 ... 220 V I_N	A	25	25	25	32
DC-3 / DC-5	24 ... 110 V I_N	A	15	15	15	20
Admissible switching frequency (DC-1 ... DC-5)			50	50	50	50
Short Circuit protection of main contacts ¹⁾						
Maximum permissible fuse (operating category gL)						
Coordination type »2« no welding			25	25	35	50
			10	10	25	35
Operating coil for AC-operation						
Standard coil, power consumption at 50 Hz 1.0 U_N						
Operating range 0.8 ... 1.1 U_N	Pick-up P_{AS}	VA	45	45	45	88
	$\cos \phi$		0.82	0.82	0.82	0.76
	Holding P_{HS}	VA	6	6	6	9
	$\cos \phi$		0.34	0.34	0.34	0.31
Operating coil for DC-operation						
Standard coil, power consumption at 1.0 U_N						
Operating range 0.8 ... 1.1 U_N	Pick-up P_A	W	5.5	5.5	5.5	7.5
	Holding P_H	W	5.5	5.5	5.5	7.5
Switching items at AC-operation						
Standard coil, power consumption at 1.0 U_N						
Making delay	ms		6 ... 25	6 ... 25	6 ... 25	7 ... 25
Drop-out delay	ms		6 ... 13	6 ... 13	6 ... 13	5 ... 25
Switching items at DC-operation						
Standard coil, power consumption at 1.0 U_N						
Making delay	ms		35 ... 65	35 ... 65	35 ... 65	35 ... 70
Drop-out delay	ms		30 ... 60	30 ... 60	30 ... 60	40 ... 65

1) According to VDE 0660 part 102 / IEC 947 -4-1 coordination type permit the following damages.

»2« Slight welding of contacts that can easily be opened, is admitted but no further damages.

2) Minimum inductance between parallel connected capacitor 20 µH

TYPE LS-K CONTACTORS TECHNICAL SPECIFICATIONS

LS-K CONTACTORS FROM LS 22K TO LS 55K INTERNATIONAL RATINGS



Type	LS 22K	LS 30K	LS 37K	LS 45K	LS 55K
Style	3 pole	3 pole 4 pole	3 pole 4 pole	3 pole 4 pole	3 pole
Pollution degree 3					
Rated insulation voltage U_i	V	1000	1000	1000	1000
Rated impulse voltage U_{imp}	kV	8	8	8	8
Mechanical endurance					
AC - operation	Operations	Mil 15	15	15	15
DC - operation	Operations	Mil 15	15	15	15
Utilization category AC-1					
Rated power values at resistive load					
Rated power value P_N	3~230 V	kW 30	42	53	53
	3~400 V	kW 55	72,5	92	92
	3~500 V	kW 69	95	121	121
	3~690 V	kW 95	125	160	160
Rated current I_e up to 690 V	Amps	90	110	140	140
Minimum wire cross-section under rated load I_e	mm ²	35	35	50	50
Admissible practical operation frequency	ops/h	1200	1200	1200	1200
Rated current at 1000 ops/h	A	90	110	112	112
Utilization category AC-3					
Rated power values of AC induction type motors					
Rated power value P_N	3~230 V	kW 15	18,5	22	30
	3~400 V	kW 22	30	37	55
	3~415 V	kW 25	37	45	55
	3~500 V	kW 30	40	45	65
	3~690 V	kW 35	45	55	65
Rated current I_e up to 440 V	Amps	50	65	80	105
Admiss. switching freq. at P_N and cont. cycling	ops/h	1200	1200	1200	1200
Utilization category AC-4					
Rated power values of AC induction type motors					
Rated power value in P_N	3~230 V	kW 5,5	7,5	10	13
	3~400 V	kW 11	15	18,5	25
	3~500 V	kW 15	18,5	22	30
	3~690 V	kW 18,5	22	25	37
Rated current I_e with practical electrical endurance up to	3~440 V	Amps 23	30	37	50
Admissible switching frequency	ops/h	200	200	200	200
Maximum permissible load P_N	3~400 V	kW 22	30	37	55
	3~400 V	A 50	65	80	105
Utilization category AC-6b					
Rated power values of AC capacitors (minimum inductance between parallel connected capacitors 6 µH)					
Single / Parallel operation	3~230 V	kvar 17/17	21/21	24/24	28/28
	3~400 V	kvar 30/30	38/38	40/40	50/50
	3~525 V	kvar 35/35	50/50	50/50	80/66
	3~690 V	kvar 40/30	40/40	40/40	60/50
DC-switching Rated current I_e					
3 contacts connected in series (all DC-motors $L/R \leq 15$ ms)					
DC-1 (resistive load)	24 ... 220 V I_e	A 90	110	110	140
DC-3 / DC-5	24 ... 110 V I_e	A 60	70	70	95
Admissible switching frequency (DC-1 ... DC-5)		50	50	50	50
Short Circuit protection of main contacts ¹⁾					
Maximum permissible fuse (operating category gL)					
Coordination type »2«		100	125	125	200
no welding		80	100	100	160
Operating coil for AC-operation					
Standard coil, power consumption at 50 Hz 1,0 U_N					
Operating range 0,8 ... 1,1 U_N	Pick-up P_{as}	VA 191	191	191	191
	cos ϕ	0,54	0,54	0,54	0,54
	Holding P_{HS}	VA 17	17	17	17
	cos ϕ	0,26	0,26	0,26	0,26
Operating coil for DC-operation					
Standard coil, power consumption at 1,0 U_N					
Operating range 0,8 ... 1,1 U_N	Pick-up P_A	W 197	197	197	197
	Holding P_H	W 2,6	2,6	2,6	2,6
Switching items at AC-operation					
Standard coil, power consumption at 1,0 U_N					
Making delay	ms	9 ... 35	9 ... 35	9 ... 35	9 ... 35
Drop-out delay	ms	9 ... 15	9 ... 15	9 ... 15	9 ... 15
Switching items at DC-operation					
Standard coil, power consumption at 1,0 U_N					
Making delay	ms	15 ... 40	15 ... 40	15 ... 40	15 ... 40
Drop-out delay	ms	9 ... 15	9 ... 15	9 ... 15	9 ... 15

1) According to VDE 0660 part 102 / IEC 947 -4-1 coordination type permit the following damages:

»2« Slight welding of contacts that can easily be opened, is admitted but no further damages.

For technical specifications or larger K contactors through LS450K (1250A), request from factory.

LS-K CONTACTORS FROM LS 75K TO LS 160K INTERNATIONAL RATINGS



Type	LS 75K			LS 90K		LS 110K		LS 132K		LS 160K	
Style	3 pole			3 pole	4 pole	3 pole		3 pole	4 pole	3 pole	4 pole
Rated insulation voltage U_i											
Pollution degree 3											
V 1000 1000 1000 1000 1000											
kV 8 8 8 8 8											
Rated impulse voltage U_{imp}											
Mechanical endurance											
AC - operation											
Operations		Mil	10	10	10	10	10	10	10	10	10
Operations		Per/H	1200	1200	1200	1200	1200	1200	1200	1200	1200
Utilization category AC-1											
Rated power values at resistive load											
Rated power value P_N		3~230 V	kW	90	90	123	114	114	152	170	191
		3~400 V	kW	155	155	214	196	196	263	310	329
		3~500 V	kW	200	200	281	259	259	346	389	415
		3~690 V	kW	270	270	371	341	341	457	537	572
		3~1000V	kW	400	400	562	517	517	692	780	866
Rated current I_N up to 690 V		Amps	250	250	325	315	315	315	400	450	500
Minimum wire cross-section under rated load I_N		mm ²	120	120	185	185	185	185	2X(25X5)	2X(30X5)	2X(25X5)
Admissible practical operation frequency		ops/h	600	600	600	600	600	600	600	600	600
Rated current at 1000 ops/h		A	200	200	260	252	252	252	320	382	425
Utilization category AC-3											
Rated power values of AC induction type motors											
Rated power value P_N		3~230 V	kW	45	55	65	75	75	90	90	90
		3~400 V	kW	75	90	110	132	132	160	160	160
		3~415/440 V	kW	80	100	125	125	132	185	185	185
		3~500 V	kW	100	110	132	160	160	200	200	200
		3~690 V	kW	100	132	155	200	200	250	250	250
		3~1000V	kW	65	100	110	150	150	200	200	200
Rated current I_N up to 440 V		Amps	150	185	205	250	250	250	309	309	309
Admiss. switching freq. at P_N and cont. cycling		ops/h	600	600	600	600	600	600	600	600	600
Utilization category AC-4											
Rated power values of AC induction type motors (High Switching, Plugging)											
Rated power value in P_N		3~230 V	kW	18,5	22	25	33	33	37	37	37
		3~400 V	kW	33	40	45	55	55	63	63	63
		3~500 V	kW	45	50	63	75	75	90	90	90
		3~690 V	kW	55	63	80	100	100	110	110	110
Rated current I_N with practical electrical endurance up to		3~690 V	Amps	65	75	90	110	110	125	125	125
		Ops/h	150	150	150	150	150	150	150	150	150
Admissible switching frequency		3~400 V	kW	75	90	110	132	132	160	160	160
Maximum permissible load P_N		3~400 V	A	150	185	205	250	250	309	309	309
Utilization category AC-6b											
Rated power values of AC capacitors (minimum inductance between parallel connected capacitors 6 µH)											
Single / Parallel operation		3~230 V	kvar	54	63	72	85	85	94	94	94
		3~400 V	kvar	100	112	135	148	148	171	171	171
DC-switching Rated current I_N											
3 contacts connected in series (all DC-motors $L/R \leq 15$ ms)											
DC-1 (resistive load)		24 ... 220 V I_N	A	250	250	315	315	315	500	500	500
DC-3 / DC-5		24 ... 110 V I_N	A	150/95	185/105	205/150	250/185	250/185	309/205	309/205	309/205
Admissible switching frequency (DC-1 ... DC-5)				50	50	50	50	50	50	50	50
Short Circuit protection of main contacts ¹⁾											
Maximum permissible fuse (operating category gL)											
Coordination type »2«			250	250	400	315	315	500	500	500	500
no welding			160	200	250	250	250	315	315	315	315
Operating coil for AC-operation											
Standard coil, power consumption at 50 Hz 1,0 U_N											
Operating range 0,8 ... 1,1 U_N		Pick-up P_{AS}	VA	400	400	830	425	750	425	750	750
		cos ϕ	0,6	0,6	-	0,6	-	-	-	-	-
		Holding P_{HS}	VA	32	32	60	20	25	20	25	25
		cos ϕ	0,4	0,4	-	0,37	-	-	-	-	-
Operating coil for DC-operation											
Standard coil, power consumption at 1,0 U_N											
Operating range 0,8 ... 1,1 U_N		Pick-up P_A	W	135	135	650	350	350	650	350	650
		Holding P_H	W	3	3,5	4,5	3,5	3,5	4,5	3,5	4,5
Switching items at AC-operation											
Standard coil, power consumption at 1,0 U_N											
Making delay		ms	20 ... 25	20...25	70...80	36 ... 40	60...70	70...80	60...70	70...80	70...80
Drop-out delay		ms	10 ... 13	10...13	70...80	10 ... 15	13...17	70...80	60...70	70...80	70...80
Switching items at DC-operation											
Standard coil, power consumption at 1,0 U_N											
Making delay		ms	60 ... 70	60...70	70...80	60 ... 70	60...70	70...80	60...70	70...80	70...80
Drop-out delay		ms	13 ... 17	13...17	70...80	13 ... 17	13...17	70...80	60...70	70...80	70...80
Dimensions											
Without auxiliary contacts		Width mm	135	135	253	173	173	253	173	253	253
LS 75 ... LS 450K with 22		Height mm	178	178	270	212	212	270	212	270	270
		Depth mm	165,5	165,5	246	208	208	246	208	246	246

1) According to VDE 0660 part 102 / IEC 947-4-1 coordination type permit the following damages:

»2« Slight welding of contacts that can easily be opened, is admitted but no further damages.

For technical specifications or larger K contactors through LS450K (1250A), request from factory.

TYPE LS-K CONTACTORS TECHNICAL SPECIFICATIONS

LS-K CONTACTORS FROM LS 220K TO LS 450K INTERNATIONAL RATINGS

Type			LS 220K	LS 280K	LS 375K	LS 450K
Style			3 pole 4 pole	3 pole 4 pole	3 pole	3 pole 4 pole
Rated insulation voltage U_{imp}						
	V		1000	1000	1000	1000
Rated impulse voltage U_{imp}						
	kV		-	-	-	-
Mechanical endurance						
AC/DC	Operations	Mil	10	10	10	3
	Operations	Per/H	1200	1200	900	600
Utilization category AC-1						
Rated power values at resistive load						
Rated power value P_N	3~230 V	kW	228	266	381	476
	3~400 V	kW	395	460	658	822
	3~500 V	kW	519	606	866	1082
	3~690 V	kW	686	800	1143	1428
	3~1000V	kW	1039	1212	1732	2165
Rated current I_e up to 690 V		Amps	600	700	1000	1250
Minimum wire cross-section under rated load I_e		mm ²	2X(30X8)	2X(30X10) 2X(40X10)		
Admissible practical operation frequency		opsh	300	300	300	120
Rated current at 1000 opsh		A	510	546	736	1125
Utilization category AC-3						
Rated power values of AC induction type motors						
Rated power value P_N	3~230 V	kW	125	160	220	250
	3~400 V	kW	220	280	375	450
	3~415/440 V	kW	230	315	400	450
	3~500 V	kW	300	400	480	500
	3~690 V	kW	375	450	500	550
	3~1000V	kW	300	375	450	500
Rated current I_e up to 440 V		Amps	420	550	700	825
Admiss. switching freq. at P_N and cont. cycling		opsh	300	300	300	120
Utilization category AC-4						
Rated power values of AC induction motors (high switching, plugging duty)						
Rated power value in P_N	3~230 V	kW	45	50	80	110
	3~400 V	kW	80	90	132	165
	3~500 V	kW	100	110	225	250
	3~690 V	kW	132	150	250	315
Rated current I_e with practical element endurance up to	3~1000 V	Amps	150	165	250	350
		Opsh	150	150	120	120
Admissible switching frequency	3~400 V	kW	220	280	375	450
Maximum permissible load P_N	3~400 V	A	420	550	700	825
Utilization category AC-6b						
Rated values of AC capacitors (minimum inductance between parallel connected capacitors 6 μ H)						
Single / Parallel operation	3~230 V	kvar	121	171	225	283
	3~400 V	kvar	234	292	360	472
DC-switching Rated current I_e						
3 contacts connected in series (all DC-motors $L/R \leq 15$ ms)						
DC-1 (resistive load)	24 ... 220 V I_e	A	600	700	1000	1250
DC-3 / DC-5	24 ... 110 V I_e	A	420/250	550/300	700/400	825/700
Admissible switching frequency (DC-1 ... DC-5)			50	50	50	50
Short Circuit protection of main contacts¹⁾						
Maximum permissible fuse (operating category gL)						
Coordination type »2«			630	800	1000	1250
no welding			400	500	630	1000
Operating coil for AC-operation						
Standard coil, power consumption at 50 Hz 1,0 U_N						
Operating range 0,8 ... 1,1 U_N	Pick-up P_{AS}	VA	680	680	750	2760
	cos ϕ		-	-	-	-
	Holding P_{HS}	VA	23	23	25	6
	cos ϕ		-	-	-	-
Operating coil for DC-operation						
Standard coil, power consumption at 1,0 U_N						
Operating range 0,8 ... 1,1 U_N	Pick-up P_A	W	600	600	600	
	Holding P_H	W	4	4	4,5	
Switching items at AC-operation						
Standard coil, power consumption at 1,0 U_N						
Making delay	ms		80 ... 90	80 ... 90	70 ... 80	50 ... 55
Drop-out delay	ms		40 ... 50	40 ... 50	70 ... 80	115 ... 130
Switching items at DC-operation						
Standard coil, power consumption at 1,0 U_N						
Making delay	ms		80 ... 90	80 ... 90		-
Drop-out delay	ms		40 ... 50	40 ... 50		-
Dimensions						
Without auxiliary contacts	Width mm		160 214	160 214	253	312 464 581
LS 75 ... LS 450K with .22	Height mm		220	220	270	265 380
	Depth mm		228	228	262	304 327

1) According to VDE 0660 part 102 / IEC 947 -4-1 coordination type permit the following damages:
»2« Slight welding of contacts that can easily be opened, is admitted but no further damages.

For technical specifications or larger K contactors through LS450K (1250A), request from factory.

Reversing Contactors (3 Phase)

AC - 1 Amps	AC - 3 Amps	Horse Power Rating 3 Phase Volts HP	OPEN	NEMA 1 (METAL) Enclosed	NEMA 4X (NON-METAL) Enclosed -4X
25A	9A	200V 3HP			
		230V 3HP			
		460V 5HP	RLS4K	RLS4K	RLS4K
		600V 7.5HP	-*0	-*1	-*-4X
		LIST	\$ 183	\$ 270	\$ 336
25A	12A	200V 3HP			
		230V 3HP			
		460V 7.5HP	RLS5K	RLS5K	RLS5K
		600V 10HP	-*0	-*1	-*-4X
		LIST	\$ 207	\$ 294	\$ 360
32A	18A	200V 5HP			
		230V 5HP			
		460V 10HP	RLS7K	RLS7K	RLS7K
		600V 15HP	-*0	-*1	-*-4X
		LIST	\$ 213	\$ 300	\$ 366
45A	25A	200V 5HP			
		230V 7.5HP			
		460V 15HP	RLS11K	RLS11K	RLS11K
		600V 15HP	-*0	-*1	-*-4X
		LIST	\$ 243	\$ 330	\$ 396
60A	32A	200V 10HP			
		230V 10HP			
		460V 20HP	RLS15K	RLS15K	RLS15K
		600V 25HP	-*0	-*1	-*-4X
		LIST	\$ 343	\$ 430	\$ 496
60A	40A	200V 10HP			
		230V 10HP			
		460V 25HP	RLS18K	RLS18K	RLS18K
		600V 25HP	-*0	-*1	-*-4X
		LIST	\$ 373	\$ 460	\$ 526
90A	50A	200V 15HP			
		230V 15HP			
		460V 30HP	RLS22K	RLS22K	RLS22K
		600V 40HP	-*0	-*1	-*-4X
		LIST	\$ 393	\$ 600	\$ 668
110A	65A	200V 20HP			
		230V 20HP			
		460V 40HP	RLS30K	RLS30K	RLS30K
		600V 50HP	-*0	-*1	-*-4X
		LIST	\$ 543	\$ 750	\$ 815
110A	80A	200V 20HP			
		230V 25HP			
		460V 50HP	RLS37K	RLS37K	RLS37K
		600V 60HP	-*0	-*1	-*-4X
		LIST	\$ 613	\$ 820	\$ 885

*Coil Suffix Chart

FOR LS4K - LS18K FOR LS22K - LS55K

*AC 60Hz 50Hz	*AC 60Hz 50Hz	FOR LS75K - LS375K (3 Pole)
-G 24 24	-G 24 24	AC/DC 50/60 Hz + DC
-A 120 120	-A 120 120	-N 24-28V
-B 200 200	-B 200 200	-AP 110-127V
-C 220 220	-C 220 220	-CR 220-250V
-H 277 230	-H 277 230	-EX 440-500V
-E 480 380	-E 480 380	No additional Charge
-F 600 500	-F 600 500	for DC LS75K - LS375K
DC	DC	For Accessories
-MSW 12VDC	-NSW 24-28VDC	See Page 65, 66
-NSW 24VDC	-OSW 42-48VDC	
-OSW 48VDC	-PSW 110-127VDC	
-PSW 110VDC	-RSW 220-250VDC	
-RSW 220VDC		
Add \$60 for DC	Add \$120 for DC	

OPEN & ENCLOSED



RoHS
Compliant

AEG

AC - 1 Amps	AC - 3 Amps	Horse Power Rating 3 Phase Volts HP	OPEN	NEMA 1 (METAL) Enclosed	NEMA 4X (NON-METAL) Enclosed -4X
140A	95A	200V 25HP			
		230V 30HP			
		460V 60HP	RLS45K	RLS45K	RLS45K
		600V 75HP	-*0	-*1	-*-4X
		LIST	\$ 793	\$ 1,048	\$ 1,143
140A	105A	200V 30HP			
		230V 40HP			
		460V 75HP	RLS55K	RLS55K	RLS55K
		600V 75HP	-*0	-*1	-*-4X
		LIST	\$ 973	\$ 1,228	\$ 1,323
250A	150A	200V 40HP			
		230V 50HP			
		460V 100HP	RLS75K	RLS75K	RLS75K
		600V 125HP	-*0	-*1	-*-4X
		LIST	\$ 1,670	\$ 1,977	\$ 2,367
250A	185A	200V 50HP			
		230V 60HP			
		460V 125HP	RLS90K	RLS90K	RLS90K
		600V 150HP	-*0	-*1	-*-4X
		LIST	\$ 2,170	\$ 2,477	\$ 2,867
315A	205A	200V 60HP			
		230V 75HP			
		460V 150HP	RLS110K	RLS110K	RLS110K
		600V 150HP	-*0	-*1	-*-4X
		LIST	\$2,398	\$2,993	\$3,188
315A	250A	200V 60HP			
		230V 75HP			
		460V 150HP	RLS132K	RLS132K	RLS132K
		600V 150HP	-*0	-*1	-*-4X
		LIST	\$2,470	\$3,065	\$3,260
450A	309A	200V 100HP			
		230V 100HP			
		460V 250HP	RLS160K	RLS160K	RLS160K
		600V 300HP	-*0	-*1	-*-4X
		LIST	\$ 2,870	\$ 3,465	\$ 3,660
600A	420A	200V 125HP			
		230V 150HP			
		460V 300HP	RLS220K	RLS220K	RLS220K
		600V 400HP	-*0	-*1	-*-4X
		LIST	\$ 3,670	\$ 4,392	\$ 5,370
700A	550A	200V 150HP			
		230V 200HP			
		460V 400HP	RLS280K	RLS280K	RLS280K
		600V 500HP	-*0	-*1	-*-4X
		LIST	\$ 5,610	\$ 6,332	\$ 7,310

Reversing Contactors are supplied wired. For units desired less wire Add **Suffix - LW**

Enclosure Description

Nema 1 - General Purpose (indoor)
Nema 4X- Non - Metal (outdoor)
Dust tight / water tight.

Open Type

No Enclosure

To Order Reversing Contactor

Example: 5 HP 460V Reversing
Contactor 120VAC Coil

Part # RLS4K-AO

List = \$183.00

Discount Schedule ST Modifications & accessories see page 65, 68