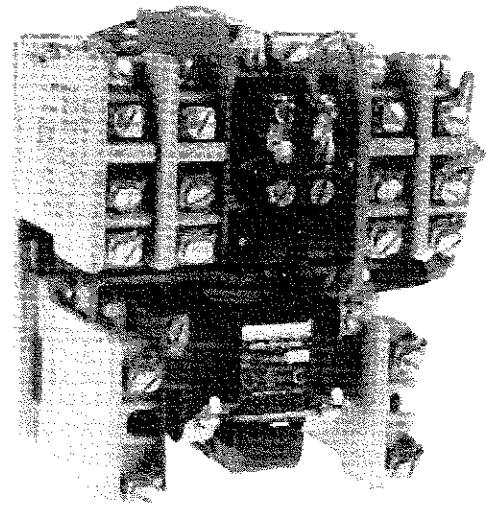
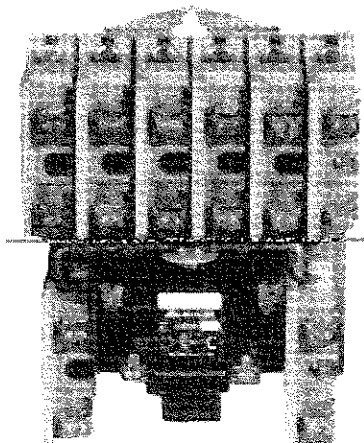


Description	Type	Page
20 Amp Electrically Held	PM	L2
30 Amp Electrically Held	PM	L3
20 Amp Electrically Held	447	L4
30 Amp Electrically Held	447	L4
30, 60, 100, 200 Amp Electrically Held	TM	L5
20 Amp Mechanically Held	PM	L2
30 Amp Mechanically Held	PM	L3
20 Amp Mechanically Held	447	L4
30 Amp Mechanically Held	447	L4
Dimensional Data - All		L6

Application

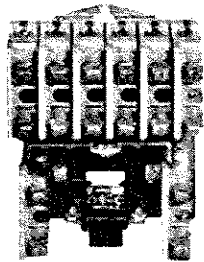
The Jöslын Clark Type PM - LC and LCL are magnetically operated lighting contactors designed to switch filament and ballast lighting loads as well as general purpose non-motor loads. Contactors are available in both electrically held and mechanically held versions. Coil-clearing contacts are furnished as standard on the mechanically held version to conserve energy, reduce heat, and eliminate AC hum. The contactors are fully rated and are available in 20 amp and 30 amp ratings. The 20 amp is available up to 14 poles in electrically held and up to 10 poles mechanically held. The 30 amp is available up to 8 poles in both the electrically held and mechanically held versions. All power contacts are anti-weld type.



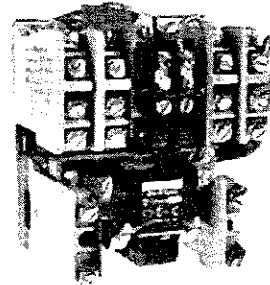
Lighting Contactors

Type PM - LC & LCL

Typical 20 Ampere Electrically Held Lighting Contactor 8-Pole



* Note: Only the KPM-33A (N.O.) and KPM-34A (N.C.) can be located on the bottom of the contactor beside the coil. All other contacts are above.



Typical 20 Ampere Mechanically Held Lighting Contactor, 8-Pole



Lighting Contactors - LC & LCL 20 Ampere - Bulletin 7707LC

Poles	N.O.	N.C.	Electrically Held - 20 Ampere			Mechanically Held - 20 Ampere		
			NEMA Type 1 General Purpose	Dim.	Open Catalog No. Price	NEMA Type 1 General Purpose Catalog No. Price Dim.	Open Catalog No. Price	
2	2	0	LC20A0020 - * 270.	A	LC20U0020 - * 244.	LCL20A0020 - * 377	B	LCL20U0020 - * 355
2	1	1	LC20A0011 - * 296	A	LC20U0011 - * 270.	LCL20A0011 - * 403.	B	LCL20U0011 - * 381.
3	3	0	LC20A0030 - * 296	A	LC20U0030 - * 270.	LCL20A0030 - * 406	B	LCL20U0030 - * 377
3	2	1	LC20A0021 - * 322	A	LC20U0021 - * 296.	LCL20A0021 - * 432	B	LCL20U0021 - * 403
3	1	2	LC20A0012 - * 322.	A	LC20U0012 - * 296.	LCL20A0012 - * 432.	B	LCL20U0012 - * 403.
4	4	0	LC20A0040 - * 374.	A	LC20U0040 - * 348	LCL20A0040 - * 418	B	LCL20U0040 - * 392
4	3	1	LC20A0031 - * 400.	A	LC20U0031 - * 374.	LCL20A0031 - * 444	B	LCL20U0031 - * 418
4	2	2	LC20A0022 - * 400.	A	LC20U0022 - * 374.	LCL20A0022 - * 444.	B	LCL20U0022 - * 418.
6	6	0	LC20A0060 - * 539.	A	LC20U0060 - * 452.	LCL20A0060 - * 722	C	LCL20U0060 - * 635
6	5	1	LC20A0051 - * 565.	A	LC20U0051 - * 478.	LCL20A0051 - * 748	C	LCL20U0051 - * 661
6	4	2	LC20A0042 - * 565	A	LC20U0042 - * 478.	LCL20A0042 - * 748	C	LCL20U0042 - * 661
6	3	3	LC20A0033 - * 565.	A	LC20U0033 - * 478.	LCL20A0033 - * 748.	C	LCL20U0033 - * 661.
8	8	0	LC20A0080 - * 757	B	LC20U0080 - * 618.	LCL20A0080 - * 800	C	LCL20U0080 - * 713
8	7	1	LC20A0071 - * 783	B	LC20U0071 - * 644.	LCL20A0071 - * 826	C	LCL20U0071 - * 739
8	6	2	LC20A0062 - * 783	B	LC20U0062 - * 644.	LCL20A0062 - * 826	C	LCL20U0062 - * 739
8	5	3	LC20A0053 - * 783	B	LC20U0053 - * 644.	LCL20A0053 - * 826	C	LCL20U0053 - * 739
8	4	4	LC20A0044 - * 783.	B	LC20U0044 - * 644.	LCL20A0044 - * 826.	C	LCL20U0044 - * 739.
10	0-10	0-10	LC20A0100 - * + 809.	B	LC20U0100 - * +722.	LCL20A0100 - * +887.	D	Contact Factory +800.
12	0-12	0-12	LC20A0120 - * + 931.	C	LC20U0120 - * +844.	Not Available		Not Available
14	0-14	0-14	LC20A0140 - * +1070.	D	LC20U0140 - * +986.	Not Available		Not Available

+ a ONCE PER CONTACTOR adder of \$26 must be included in Price to include any NC contacts. Also a the PO will have to include a description of the number of N.C. contacts to be substituted for N.O. contacts.

Contact Kits - Discount Schedule JC 55

Type of Operation	Type of Contact	Operating Rod Color	N.O. or N.C. Contacts	Kit Catalog No.	Price	Location
Non-Overlap	Anti-Weld	White	1-NO	KPM-31A	48.	Top
Non-Overlap	Anti-Weld	White	1-NC	KPM-32A	48.	Top
Non-Overlap	Anti-Weld	White	1-NO	KPM-33A	48.	*Bottom
Non-Overlap	Anti-Weld	Red	1-NO/1-NC	KPMA-2	78	Top
Overlapping	Std. Silver	Orange	1-NO/1-NC	KPMA-21	108.	Top
Non-Overlap	Anti-Weld	Green	2-NO	KPMF-2	78.	Top
Non-Overlap	Anti-Weld	White	1-NC	KPM-34A	48	*Bottom

Factory Modifications - NEMA Type 1

Form	Description	Price
B	3 position selector switch	\$ 96.
K	2 position selector switch	96.
C	On/Off Pushbuttons - uses one pole space for holding circuit.	96

Accessories

- Enclosures - NEMA 1 and NEMA 3R - see Page L6

* See note at top of page for location of contacts

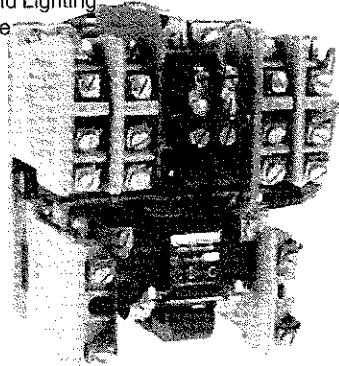
Ordering Information

- To order use complete catalog number. Replace the (*) with the suffix from the coil table. Add \$180.00 for a DC coil (DC coils are UL pending)
- For a NEMA 3R, (2 To 8 Poles Only) replace the "A" or "U" with an "R". Add \$232. to Open Price. **Example:** LCL20 R 0040 - *
- For cover mounted operators, replace letter "0" with form letter **Example:** 3 Pos sel sw LC20A B 040 -*

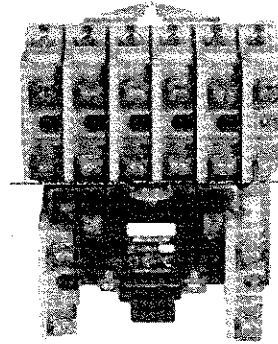
Coil Table

60 Hz/Voltage	Suffix	DC Voltage	Suffix
24	-96	24	-024
120	-76	120	-120
208	-86	240	-240
240	-26	12	-012
277	-277	32	-032
480	-46	64	-064
600	-56		

Typical 30 Ampere
Mechanically Held Lighting
Contactor, 8-Pole



Typical 30 Ampere
Electrically Held Lighting
Contactor 8-Pole



* Note: Only the KLC-33A (N.O) and KLC-34A (N.C) can be located on the bottom of the contactor beside the coil. All other contacts are above.

Lighting Contactors - LC & LCL 30 Ampere - Bulletin 7707LC



Poles	N.O. N.C.		Electrically Held - 30 Ampere						Mechanically Held - 30 Ampere					
			NEMA Type 1 General Purpose			Open			NEMA Type 1 General Purpose			Open		
			Dim.	Catalog No.	Price	Dim.	Catalog No.	Price	Dim.	Catalog No.	Price	Dim.	Catalog No.	Price
2	2	0	LC30A0020 - *	\$ 296	A	LC30U0020 - *	\$ 270	LCL30A0020 - *	\$ 392	B	LCL30U0020 - *	\$ 365		
2	1	1	LC30A0011 - *	322.	A	LC30U0011 - *	296.	LCL30A0011 - *	418.	B	LCL30U0011 - *	392.		
3	3	0	LC30A0030 - *	322	A	LC30U0030 - *	296.	LCL30A0030 - *	418.	B	LCL30U0030 - *	392.		
3	2	1	LC30A0021 - *	348	A	LC30U0021 - *	322.	LCL30A0021 - *	444.	B	LCL30U0021 - *	418.		
3	1	2	LC30A0012 - *	348.	A	LC30U0012 - *	322.	LCL30A0012 - *	444.	B	LCL30U0012 - *	418.		
4	4	0	LC30A0040 - *	392.	A	LC30U0040 - *	365.	LCL30A0040 - *	444.	B	LCL30U0040 - *	418.		
4	3	1	LC30A0031 - *	418.	A	LC30U0031 - *	392.	LCL30A0031 - *	470.	B	LCL30U0031 - *	444.		
4	2	2	LC30A0022 - *	418.	A	LC30U0022 - *	392.	LCL30A0022 - *	470.	B	LCL30U0022 - *	444.		
6	6	0	LC30A0060 - *	639	A	LC30U0060 - *	552.	LCL30A0060 - *	787.	C	LCL30U0060 - *	700.		
6	5	1	LC30A0051 - *	667.	A	LC30U0051 - *	580.	LCL30A0051 - *	812.	C	LCL30U0051 - *	725.		
6	4	2	LC30A0042 - *	667.	A	LC30U0042 - *	580.	LCL30A0042 - *	812.	C	LCL30U0042 - *	725.		
6	3	3	LC30A0033 - *	667.	A	LC30U0033 - *	580.	LCL30A0033 - *	812.	C	LCL30U0033 - *	725.		
8	8	0	LC30A0080 - *	757.	B	LC30U0080 - *	670.	LCL30A0080 - *	866.	C	LCL30U0080 - *	779.		
8	7	1	LC30A0071 - *	783.	B	LC30U0071 - *	696.	LCL30A0071 - *	892.	C	LCL30U0071 - *	805.		
8	6	2	LC30A0062 - *	783.	B	LC30U0062 - *	696.	LCL30A0062 - *	892.	C	LCL30U0062 - *	805.		
8	5	3	LC30A0053 - *	783.	B	LC30U0053 - *	696.	LCL30A0053 - *	892.	C	LCL30U0053 - *	805.		
8	4	4	LC30A0044 - *	783.	B	LC30U0044 - *	696.	LCL30A0044 - *	892.	C	LCL30U0044 - *	805.		

Contact Kits - Discount Schedule JC 55

Type of Operation	Type of Contact	Operating Rod Color	N.O or N.C. Contacts	Kit Catalog No.	Price	Location
Non-Overlap	Anti-Weld	White	1-NO	KLC-31A	66.	Top
Non-Overlap	Anti-Weld	White	1-NC	KLC-32A	66.	Top
Non-Overlap	Anti-Weld	White	1-NO	KLC-33A	66.	*Bottom
Non-Overlap	Anti-Weld	Red	1-NO/1-NC	KLCA-2	132.	Top
Overlapping	Std. Silver	Orange	1-NO/1-NC	KPMA-21	108.	Top
Non-Overlap	Anti-Weld	Green	2-NO	KLCF-2	132.	Top
Non-Overlap	Anti-Weld	White	1-NC	KLC-34A	66.	*Bottom

Factory Modifications - NEMA Type 1

Form	Description	Price
B	3 position selector switch	\$ 96.
K	2 position selector switch	96.
C	On/Off Pushbuttons - uses one pole space for holding circuit	96.

Accessories

- Enclosures - NEMA 1 and NEMA 3R - see Page L6

* See note at top of page for location of contacts

Ordering Information

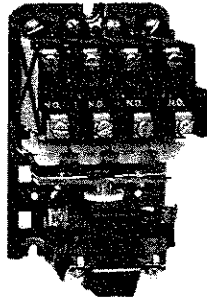
- To order use complete catalog number. Replace the (*) with the suffix from the coil table. Add \$180.00 for a DC coil (DC coils are UL pending)
- For a NEMA 3R, (2 To 4 Poles Only) replace the "A" or "U" with an "R". Add \$232 to Open Price. **Example:** LCL30 R 0044 - *
- For cover mounted operators, replace letter "0" with form letter **Example:** 3 Pos sel sw. LC30A B 044 - *

Coil Table

60 Hz/Voltage	Suffix	DC On Latch Contactor Only	DC Voltage	Suffix
24	-96	24	-024	
120	-76	120	-120	
208	-86	240	-240	
240	-26	12	-012	
277	-277	32	-032	
480	-46	64	-064	
600	-56			

Lighting Contactors

Typical 30 Amp
Electrically Held Lighting
Contactor, 4-Pole



Application

Series 447, 20 & 30 Ampere contactors are engineered for a wide variety of lighting circuit switching where long-life, compact size and versatility of contact combinations are prime application requirements. The 20 Ampere and 30 Ampere contactors are available as electrically held types, and do not require coil clearing contacts. Both sizes are City of L A. approved.

Description

These Lighting Contactors are magnetically operated with contact poles electrically held. Parts are compactly arranged on a steel mounting plate - one size plate accommodates 4 poles or less and another for 5 poles or more. The N.O. unit poles, with the same basic construction on all sizes, have a molded insulating housing enclosing the contacts for environmental protection. Wiping action, double break silver alloy contacts for positive make, fast break are standard. A single screw fastens each unit pole to the base plate.

All terminals are accessible and are equipped with pressure connectors (accommodating two No. 12 or 14 solid or stranded wires) for reliable, shakeproof connections.

Sub-Assemblies

In addition to the contactors listed in the table below, sub-assemblies are available allowing fast, easy assembly of complete contactors by the customer to meet job requirements.

Lighting Contactors - Series 447 - 20 & 30 Ampere

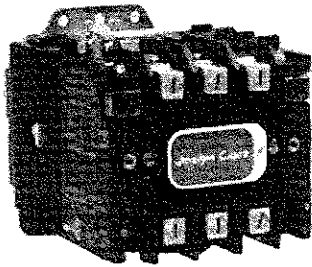
Poles	20 Ampere			30 Ampere		
	Amperes Open or Encl. 277V/60Hz	Electrically Held Open Catalog No.	Price	Amperes Open or Encl. 277V/60Hz	Electrically Held Open Catalog No.	Price
2	20	447-5200 - *	\$ 244	30	447-6200 - *	\$ 268
3		447-5300 - *	270.		447-6300 - *	296
4		447-5400 - *	348		447-6400 - *	365
6		447-5600 - *	452		447-6600 - *	551
8		447-5800 - *	616		447-6800 - *	670.

Ordering Information

- To order use complete catalog number. Replace the (*) with the suffix from the coil table.

Coil Table

60 Hz/Voltage	Suffix
120	11
208-240	21
480	31
600	41
24	51
12	61
48	71
277	81



Open Type Lighting Contactor

Application

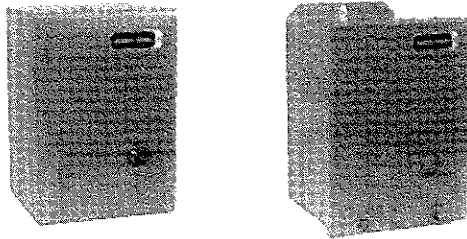
The Joslyn Clark Type TM-LC Lighting Contactors are electrically held and specifically designed for use on filament and ballast (fluorescent and mercury) lamp loads. For such loads, all 7707LC Lighting Contactors may be used at their full ampere ratings.

Factory Modifications - NEMA Type 1

Form	Description	Price
B	3 position selector switch	\$ 96.
K	2 position selector switch	96.
C	On/Off Pushbuttons - uses one pole space for holding circuit.	96.

Accessories

- Enclosures - NEMA 1 and NEMA 3R



Lighting Contactors - Type TM - LC



Full Load Ampere Rating ^{3,4}	No of Poles	Open Type		NEMA Type 1 General Purpose	
		Catalog No.	Price ¹	Catalog No.	Price ¹
30	2	T77U02B	270	T77A02B	287
	3	T77U03B	296.	T77A03B	313.
	4 ²				
60	2	T77U02C	505	T77A02C	592
	3	T77U03C	539	T77A03C	626
	4 ²				
100	2	T77U02D	800.	T77A02D	974
	3	T77U03D	870	T77A03D	1044
	4 ²				
200 ⁵	2	T77U02E	1931.	T77A02E	2297
	3	T77U03E	2088.	T77A03E	2453

- Notes:**
- Includes contactor without control-circuit contact.
 - For 4-pole contactor, order 3-pole plus a separate N.O. Power Pole Kit.
 - 30 Amp Kit is KTM-41-1
 - 60 Amp, KTM-42-1
 - 100 Amp, KTM-43-1.
 - Maximum a-c voltage ratings, single or polyphase: Tungsten load - 480V, Ballast load - 600V.
 - 100 Amp contactor terminals are suitable for use with aluminum wire.

For use of aluminum wire on other sizes, refer to sales office.

5. 200 Ampere Contactor is UL Listed for Ballast Lamp Loads only.

Auxiliary Contacts:

- KTM-10 N.O. \$ 60.00 x JC14
- KTM-11 N.C. \$ 60.00 x JC14

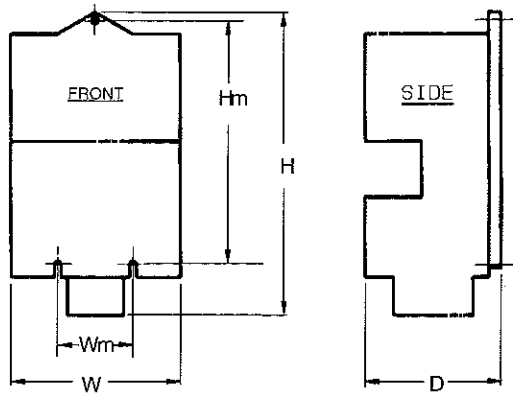
Ordering Information

- To order use complete catalog number. Replace the (*) with the suffix from the coil table.
- For a NEMA 3R, replace the "A" or "U" with an "R". Add \$232 to Open Price.
Example: T77 R O2B-*
- For cover mounted operators, replace letter "O" with form letter.
Example: 3 Pos sel. sw ,T77A B 3B -* and ADD \$96.00

Coil Table

60 Hz/Voltage	Suffix
24	-96
120	-76
208	-86
240	-26
277	-277
480	-46
600	-56

Approximate Dimensions In Inches Type PM-LC & LCL, SERIES 447, & TM-LC Contactors



Open - Series 447

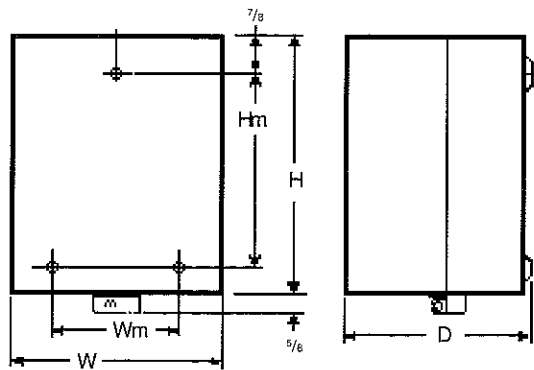
¹ Contactor Type	Max Poles	H	W	D	Hm	Wm
447	4	5 1/16	3 1/4	3 1/8	4 3/4	2 1/8
Elec Held	8	5 11/16	5 7/8	3 1/8	4 3/4	2 1/8

Open - Type PM - LC & LCL

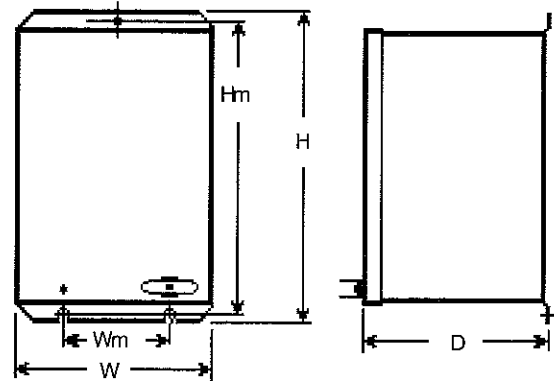
¹ Contactor Type	Ref Dim	H	W	LC D	LCL D	Hm	Wm
LC & LCL	A	5 5/16	3	3 1/4	3 5/8	4 1/2	2
LC & LCL	B	5 5/16	4 1/2	3 1/4	3 5/8	4 1/2	2
LC & LCL	C	5 7/16	4 1/2	3 1/4	3 5/8	4 1/2	2
LC & LCL	D	7 1/2	4 1/2	3 1/4	3 5/8	6 1/2	2

Open - Type TM - LC

Contactor Type	No. of Poles	H	W	D	Hm	Wm
¹ 30A, 60A	2, 3	4 1/4	3 7/8	4 3/4	3 3/4	1 1/2
² 100A, 200A	2, 3	8 1/8	5 7/16	7 1/16	6 7/8	3 1/2
¹ 30A, 60A	4	4 1/4	4 7/8	4 3/4	3 3/4	1 1/2
² 100A	4	8 1/8	6 15/16	7 1/16	6 7/8	3 1/2



NEMA Type 1 Enclosure



NEMA Type 3R Enclosure

Enclosed- Type PM - LC & LCL & Type TM - LC

Enclosure NEMA Type	Maximum number of poles					Enclosure Dimensions				
	LC20	LCL20	LC,LCL30	TM 30, 60	TM 100, 200	H	W	D	Hm	Wm
¹ Type 1	8	8	4	4	---	9 1/2	6 3/4	6 1/4	7 3/4	5
¹ Type 1	14	10	8	---	---	14 1/2	12 5/8	6 1/4	12 3/4	11
² Type 1	---	---	---	---	4	20	12	9	17	9
² Type 3R	8	8	4	4	---	11	7 1/4	6 7/8	10 1/2	4

Notes:

- Provisions for #10 Mounting Screws.
- Provisions for 1/4" Mounting Screws.