

Three Phase - Line and Load Reactors

1 thru 500 Hp



Applications: Line side power conditioning for AC motor controls to prevent unwanted harmonics and nuisance drive trips. Load side power conditioning to smooth power wave form to connected motor to reduce motor electrical stresses and increase motor life.

Features: Open construction with connection terminals. 3% impedance rating at rated current.

Hp (Rated)	kW (Rated)	Input Voltage	Cont. Amps	Induct. (mH)	Full Load Watts Loss	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
208, 230 Volt input, 60 Hz, 3% Impedance									
1	0.75	208/230	4	3.0	14.5	LRAC00401	244	E8	4
1 1/2-2	1.1-1.15	208/230	8	1.15	19.52	LRAC00801	244	E8	4
3	2.2	208/230	12	1.25	26	LRAC01201	395	E8	10
5	3.7	208/230	18	0.8	36	LRAC01801	414	E8	4
7 1/2	5.5	208/230	25	0.5	48	LRAC02501	498	E8	11
10	7.4	208/230	35	0.4	49	LRAC03501	528	E8	11
15	11.1	208/230	45	0.3	54	LRAC04501	557	E8	23
20	14.9	208/230	55	0.25	64	LRAC05501	591	E8	26
25	18.6	208/230	80	0.138	105	LRAC080BTB	690	E8	31
30	22.3	208/230	100	0.1	95	LRAC110BCB	895	E8	39
40	29.8	208/230	130	0.085	117	LRAC130BCB	1201	E8	30
50	37.2	208/230	160	0.069	127	LRAC160BCB	1396	E8	47
460 Volt input, 60 Hz, 3% Impedance									
1-1 1/2	0.75-1.1	460	2	12.0	7.5	LRAC00201	226	E8	4
2	1.5-2.2	460	4	6.5	20	LRAC00402	259	E8	4
5	3.7	460	8	3.0	29	LRAC00802	303	E8	7
7 1/2	5.5	460	12	2.5	31	LRAC01202	418	E8	11
10	7.4	460	18	1.5	43	LRAC01802	437	E8	11
20-25	11.1	460	25	1.2	52	LRAC02502	524	E8	13
20-25	14.9-18.6	460	35	0.8	54	LRAC03502	556	E8	15
30	22.3	460	45	0.7	62	LRAC04502	589	E8	27
40	29.8	460	55	0.5	67	LRAC05502	621	E8	28
60-75	37.2-44.7	460	80	0.4	120	LRAC08002	728	E8	33
100	56	460	110	0.2	140	LRAC110ACB2	946	E8	54
125	75	460	130	0.17	150	LRAC130ACB2	1265	E8	54
100	93.2	460	160	0.13	300	LRAC160ACB2	1473	E8	54
125	112	460	200	0.11	222	LRAC200ACB	1725	E8	68
150/200	149	460	250	0.088	370	LRAC250ACB2	2250	E8	91
250	186.5	460	320	0.061	470	LRAC360ACB2	2413	E8	128
300	223.8	460	400	0.053	460	LRAC420ACB2	2571	E8	188
350/400	261-298	460	500	0.046	740	LRAC480ACB2	3916	E8	201
500	373	460	600	0.037	493	LRAC600ACB	4732	E8	245
575 Volt input, 60 Hz, 3% Impedance									
1	0.75-1.5	575	2	20	11.3	LRAC00202	228	E8	4
3	2.2	575	4	9	20	LRAC00403	355	E8	4
5	3.7	575	8	5	25.3	LRAC00802	303	E8	7
5	5.5	575	8	3	29	LRAC00803	400	E8	10
7 1/2	7.5	575	12	2.5	31	LRAC01202	418	E8	11
10	11	575	18	1.50	43	LRAC01802	437	E8	11
20-25	15	575	25	1.20	52	LRAC02502	524	E8	13
20-25	22	575	35	0.80	54	LRAC03502	556	E8	15
30	30	575	45	0.70	62	LRAC04502	589	E8	27
40	37.5	575	50	0.5	67	LRAC05502	621	E8	28
60-75	45-55	575	80	0.4	120	LRAC08002	728	E8	33
100	75	575	110	0.20	140	LRAC110ACB2	946	E8	54
125	93	575	130	0.17	150	LRAC130ACB2	1265	E8	54
100	112	575	160	0.13	300	LRAC160ACB2	1473	E8	54

(1) 2.5% impedance rating. % impedance decreases if load current is less than reactor rated current.

NOTE: See page 283 for Line Reactor enclosures. See notes on inside back flap and pages 5-6.

Three Phase - Line and Load Reactors continued...

Hp (Rated)	kW (Rated)	Input Voltage	Cont. Amps	Induct. (mH)	Full Load Watts Loss	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
200-240 Volt input, 50 Hz, 3% Impedance									
1	0.75	200-240	4	3.0	14.5	LRAC00401	244	E8	4
1 1/2-2	1.15	200-240	8	1.15	19.5	LRAC00801	244	E8	4
3	2.2	200-240	12	1.25	26	LRAC01201	395	E8	10
5	3.7	200-240	18	0.8	36	LRAC01801	414	E8	4
7 1/2	5.5	200-240	25	0.5	48	LRAC02501	498	E8	11
10	7.5	200-240	35	0.4	49	LRAC03501	528	E8	11
15	11.1	200	45	0.3	54	LRAC04501	557	E8	23
20	14.9	200	55	0.25	64	LRAC05501	591	E8	26
25	18.6	200	80	0.2	105	LRAC080BTB	690	E8	31
30	22.3	200	110	0.1	95	LRAC110BCB	895	E8	39
40	29.8	200	130	0.085	117	LRAC130BCB	1201	E8	30
50	37.2	200	160	0.069	127	LRAC160BCB	1396	E8	47
380/400/415 Volt input, 50 Hz, 3% Impedance									
1-1 1/2	0.75	380	2	12.0	7.5	LRAC00201	226	E8	4
1	0.75	400/415	2	20.0	11.3	LRAC00202	228	E8	4
2	1.5	380	4	6.5	20	LRAC00402	259	E8	4
3	1.5	400/415	4	9.0	20	LRAC00403	355	E8	4
5	2.2	380/400/415	8	5.0	25.3	LRAC00802	303	E8	7
5	3.7	380/400/415	8	3.0	29	LRAC00803	400	E8	10
7 1/2	5.5	380/400/415	12	2.5	31	LRAC01202	418	E8	11
10	7.5	380/400/415	18	1.5	43	LRAC01802	437	E8	11
20-25	11.1	380/400/415	25	1.2	52	LRAC02502	524	E8	13
20-25	14.9	380/400/415	35	0.8	54	LRAC03502	556	E8	15
30	18.6-22.3	380/400/415	45	0.7	62	LRAC04502	589	E8	27
40	29.8	575	55	0.5	67	LRAC05502	621	E8	28
60-75	37.2	575	80	0.4	120	LRAC08002	728	E8	33
125	75	380/400/415	130	0.17	150	LRAC130ACB2	1265	E8	54
100	75	400/415	160	0.13	300	LRAC160ACB2	1473	E8	54
125	93	380/400/415	200	0.11	222	LRAC200ACB	1725	E8	68
150/200	112-149	380/400/415	250	0.88	370	LRAC250ACB2	2250	E8	91
250	186.5	380/400/415	360	0.061	470	LRAC360ACB2	2413	E8	128
300	223.8	380/400/415	420	0.053	460	LRAC420ACB2	2571	E8	188
350/400	261-298	380/400/415	480	0.046	493	LRAC480ACB2	3916	E8	201

Line Reactor Enclosures NEMA 1

Enclosure Catalog No.	to Fit LRAC Catalog No.	Mount Type	List Price	Mult. Sym.	Ap'x Shpg. Wgt. (Lbs)	Width (IN/mm)	Height (IN/mm)	Depth (IN/mm)	
LRENC-8	LRAC002-4XX	LRAC01801	WALL	154	E8	12	8 (293)	10 (254)	6 (152)
	LRAC008-12XX	LRAC01802							
LRENC-13	LRAC01803	LRAC08002	FLOOR	303	E8	34	13 (330)	15 (381)	13 (330)
	LRAC025-35XX								
	LRAC045-55XX								
LRENC-15	LRAC080XTB	LRAC110-160XX	FLOOR	455	E8	35	15 (381)	16 (406)	13 (330)
	LRAC0110-500XX								
LRENC-20S	LRAC200-250XCB	LRAC250-900ACB	FLOOR	610	E8	50	20 (508)	19 (483)	16 (406)

NOTE: See notes on inside back flap and pages 5-6.

Farm Duty Motors
 Definite Purpose Motors
 Unit Handling
 Brake Motors
 200 & 575 Volt Motors
 IEC Frame Motors
 50 Hertz Motors
 Inverter/Vector Motors & Controls
 DC Motors and Controls
 Soft Starters & Dynamic Brakes

SmartMotor® - 230 and 460 Volts

Hp @ Base Speed	Base Speed @ 60 Hz.	NEMA Frame	Catalog Number	List Price (1)	Mult. Sym.	Ap'x. Shpg. Wgt.	Constant Torque Speed Range		Type	"C" Dimension	Size	Notes
							Min.	Max.				
230 Volts												
1	1750	56C	CSM3546-2	1484	E1	50	180	1800	DV3524M	13.40	35	3, 8
1	1750	143TC	CSM3546T-2	1523	E1	51	180	1800	DV3524M	13.31	35	3, 8
2	1750	145TC	CSM3558T-2	1650	E1	65	180	1800	DV3540M	15.56	35	3, 8
3	1760	182TC	CSM3611T-2	1774	E1	87	300	1800	DV3628M	16.55	36	3, 8
5	1750	184TC	CSM3615T-2	2077	E1	114	300	1800	DV3646M	18.05	36	3, 8
7 1/2	1760	213TC	CSM3710T-2	2924	E1	148	400	1800	DV3734M	18.69	37	3, 8
10	1760	215TC	CSM3714T-2	3602	E1	175	400	1800	DV3746M	20.52	37	3, 8
460 Volts												
1	1750	56C	CSM3546-4	1888	E1	51	180	1800	DV3524M	13.40	35	3, 8
1	1750	143TC	CSM3546T-4	1903	E1	51	180	1800	DV3524M	13.31	35	3, 8
2	1750	145TC	CSM3558T-4	2009	E1	67	180	1800	DV3540M	15.56	35	3, 8
7 1/2	1760	213TC	CSM3710T-4	3763	E1	148	400	1800	DV3734M	18.69	37	3, 8

(1) Without optional keypad. See notes on inside back flap and pages 5-6.

Washdown SmartMotor® - TEFC, 230 and 460 Volts


Hp @ Base Speed	Base Speed @ 60 Hz.	NEMA Frame	Catalog Number	List Price (1)	Mult. Sym.	Ap'x. Shpg. Wgt.	Constant Torque Speed Range		Type	"C" Dimension	Size	Notes
							Min.	Max.				
230 Volts												
1	1750	56C	CWDSM3546-2	1834	E1	50	180	1800	DV3524M	13.39	35	3, 8
1	1750	143TC	CWDSM3546T-2	1834	E1	52	180	1800	DV3524M	13.31	35	3, 8
2	1750	145TC	CWDSM3558T-2	2210	E1	66	180	1800	DV3540M	15.56	35	3, 8
3	1760	182TC	CWDSM3611T-2	2345	E1	97	300	1800	DV3628M	16.55	36	3, 8
5	1750	184TC	CWDSM3615T-2	2716	E1	92	300	1800	DV3646M	18.05	36	3, 8
7 1/2	1760	213TC	CWDSM3710T-2	3971	E1	162	400	1800	DV3734M	18.68	37	3, 8
10	1760	215TC	CWDSM3714T-2	4242	E1	186	400	1800	DV3746M	20.56	37	3, 8
460 Volts												
1	1750	56C	CWDSM3546-4	2365	E1	51	180	1800	DV3524M	13.39	35	3, 8
7 1/2	1760	213TC	CWDSM3710T-4	5101	E1	162	400	1800	DV3734M	18.69	37	3, 8

(1) Without optional keypad. See notes on inside back flap and pages 5-6.

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Definite Purpose Motors

Unit Handling

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes

Close-Coupled Pump SmartMotor® -TEFC, 230 and 460 Volts

Hp @ Base Speed	Base Speed @ 60 Hz.	NEMA Frame	Catalog Number	List Price (1)	Mult. Sym.	Ap'x. Shpg. Wgt.	Constant Torque Speed Range		Type	"C" Dimension	Size	Notes
							Min.	Max.				
230 Volts												
1	3450	143JM	JMSM3545T-2	1547	E1	60	180	3450	DV3516M	15.43	35	
2	3450	143JM	JMSM3555T-2	1682	E1	60	180	3450	DV3532M	15.43	35	
3	3450	182JM	JMSM3610T-2	1832	E1	62	300	3450	DV3628M	18.33	36	
5	3450	184JM	JMSM3613T-2	2200	E1	67	300	3450	DV3634M	18.33	36	
7 1/2	3450	213JM	JMSM3709T-2	2973	E1	158	400	3450	DV3733M	19.86	37	
10	3450	215JM	JMSM3711T-2	3669	E1	162	400	3450	DV3738M	21.73	37	
460 Volts												
1	3450	143JM	JMSM3545T-4	1921	E1	35	180	3450	DV3516M	15.43	35	3, 8
2	3450	145JM	JMSM3555T-4	2036	E1	51	180	3450	DV3532M	15.43	35	3, 8
7 1/2	3450	213JM	JMSM3709T-4	3919	E1	158	400	3450	DV3733M	19.81	37	3, 8
10	3450	215JM	JMSM3711T-4	4307	E1	162	400	3450	DV3738M	20.93	37	3, 8

(1) Without optional keypad. See notes on inside back flap and pages 5-6.

SmartMotor Keypad with Cable

- 32 Character English alphanumeric display when mounted on panel
- Backlit LCD
- Remote mount to 100 ft. from control



Catalog Number	Cable Length	List Price	Mult. Sym.	Enclosure Rating
CBLSM015KP	5 ft.	217	E8	NEMA1
CBLSM030KP	10 ft.	249	E8	NEMA1
CBLSM046KP	15 ft.	279	E8	NEMA1
CBLSM061KP	20 ft.	309	E8	NEMA1
CBLSM091KP	30 ft.	370	E8	NEMA1
CBLSM152KP	50 ft.	491	E8	NEMA1
CBLSM229KP	75 ft.	613	E8	NEMA1
CBLSM305KP	100 ft.	796	E8	NEMA1
CBLSM015KP-W (2)	5 ft.	217	E8	NEMA4X
CBLSM046KP-W (2)	15 ft.	279	E8	NEMA4X
CBLSM091KP-W (2)	30 ft.	370	E8	NEMA4X

(2) Keypad is white in color

SmartMotor Keypad Mounted Covers

- 32 Character English alphanumeric display
- Backlit LCD
- Keypad mounted to terminal cover
- Includes connecting cable

Catalog Number	List Price	Mult. Sym.	Type No.	Enclosure Rating
CVRSM35KP-B	267	E8	DV35	NEMA1
CVRSM36KP-B	274	E8	DV36	NEMA1
CVRSM37KP-B	282	E8	DV37	NEMA1
CVRSM35KP-W (2)	267	E8	DV35	NEMA4X
CVRSM36KP-W (2)	267	E8	DV36	NEMA4X

(2) Keypad is white in color

SmartMotor Cover with Keypad Jack

- Keypad Jack mounted to cover
- Removable dust cover
- Order keypad with cable (above)

Catalog Number	List Price	Mult. Sym.	Type No.	Enclosure Type
CVRSM35KJ-B	53	E8	DV35	NEMA1
CVRSM36KJ-B	65	E8	DV36	NEMA1
CVRSM37KJ-B	76	E8	DV37	NEMA1

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