

# Line and Load Reactors

## Line and Load Reactors

Line reactors (sometimes called “line chokes”) are a common power accessory for electronic variable speed drives. These components add an extra margin of protection for AC drives from supply transients.

Line reactors are strongly recommended for installation with AC drives that do not have built-in inductors. Refer to the built-in inductor columns in the following tables.

Load reactors are used on the output of AC drives to reduce the effects of high motor wiring capacitance and to “soften” the  $dV/dt$  (rate of change of voltage) applied to the motor windings.

### Reactors in AC drive applications:

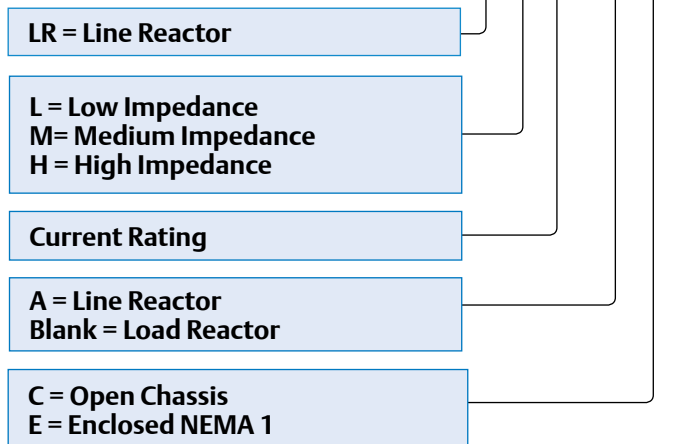
- Help reduce harmonic distortion of the input line current
- Improve input line current balance
- Reduce nuisance drive over-voltage trips caused by transient voltage spikes and power line notches
- Protect input rectifiers from in-rush current caused by sudden power line surges and sags
- Extend the life of the DC bus capacitor bank by reducing the internal heating caused by ripple current
- Protect motor windings from long lead effects when used on the drive output



Line and Load Reactor Specifications	
Voltage	690 Vac maximum
Ambient Temperature	104 °F (40 °C)
Overload	200% for 10 seconds 150% for 1 minute
Approvals	CE UL508 CSA C22.2

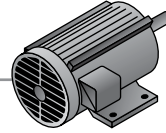
## Order Code

**xx - x - xxxxA - x**



# Input Line Reactors - 115 Vac & 230 Vac

Line Reactor 3%



115 Vac, Single Phase 50/60 Hz							
Drive	Built-in Inductor	Amps	Inductance (μH)	Watts Loss	Chassis Mount		
					Order Code	Dimensions H x W x D (in)	Weight (lbs)
Maaa-01100017	No	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2
Maaa-01100024	No	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1
Maaa-02100042	No	55	270	67	LRL0055A-C	6 x 7.2 x 4	18
Maaa-02100056	No	65	190	87	LRL0065A-C	6 x 7.2 x 4	18

230 Vac, Single Phase 50/60 Hz							
Drive	Built-in Inductor	Amps	Inductance (μH)	Watts Loss	Chassis Mount		
					Order Code	Dimensions H x W x D (in)	Weight (lbs)
Maaa-01200017	No	4.8	2300	13.8	LRL004A8-C	3.7 x 4.5 x 1.5	1.7
Maaa-01200024	No	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8
Maaa-01200033	No	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7
Maaa-01200042	No	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7
Maaa-02200024	No	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8
Maaa-02200033	No	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7
Maaa-02200042	No	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7
Maaa-02200056	No	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2
Maaa-02200075	No	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2
Maaa-03200100	No	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1
Maaa-04200133	Yes	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1

230 Vac, 3 Phase 50/60 Hz										
Drive	Built-in Inductor	Amps	Inductance (μH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
					Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Maaa-02200024	No	4.8	2300	13.8	LRL004A8-C	3.7 x 4.5 x 1.5	1.7	LRL004A8-E	8 x 8 x 6	8.7
Maaa-02200033	No	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02200042	No	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02200056	No	14	790	32.7	LRL0014A-C	5.3 x 4.4 x 2.8	2.8	LRL0014A-E	8 x 8 x 6	9.8
Maaa-02200075	No	14	790	32.7	LRL0014A-C	5.3 x 4.4 x 2.8	2.8	LRL0014A-E	8 x 8 x 6	9.8
Maaa-03200100	No	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Maaa-04200133	Yes	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Maaa-04200176	Yes	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1	LRL0028A-E	13.3 x 13.2 x 13.1	23.1
Mbbb-03200050	No	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7	LRL0011A-E	8 x 8 x 6	9.7
Mbbb-03200066	No	14	790	32.7	LRL0014A-C	5.3 x 4.4 x 2.8	2.8	LRL0014A-E	8 x 8 x 6	9.8
Mbbb-03200080	No	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Mbbb-03200106	No	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Mbbb-04200137	Yes	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Mbbb-04200185	Yes	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1	LRL0028A-E	13.3 x 13.2 x 13.1	23.1
Mccc-05200250	Yes	35	400	49	LRL0035A-C	6 x 6 x 3.5	10	LRL0035A-E	13.3 x 13.2 x 13.1	28
Mccc-06200330	Yes	55	270	67	LRL0055A-C	6 x 7.2 x 4	18	LRL0055A-E	13.3 x 13.2 x 13.1	36
Mccc-06200440	Yes	65	190	87	LRL0065A-C	6 x 7.2 x 4	18	LRL0065A-E	13.3 x 13.2 x 13.1	36
Mccc-07200610	Yes	83	170	119	LRL0083A-C	6 x 7.2 x 4.3	19	LRL0083A-E	13.3 x 13.2 x 13.1	37
Mccc-07200750	Yes	104	120	94	LRL0104A-C	6 x 7.2 x 6.5	22	LRL0104A-E	13.3 x 13.2 x 13.1	40
Mccc-07200830	Yes	130	95	132	LRL0130A-C	7.5 x 9.3 x 6.8	26	LRL0130A-E	13.3 x 13.2 x 13.1	44
Mccc-08201160	Yes	160	80	110	LRL0160A-C	7.5 x 9.3 x 6.8	34	LRL0160A-E	13.3 x 13.2 x 13.1	52
Mccc-08201320	Yes	200	60	159	LRL0200A-C	7.5 x 9.3 x 7	34	LRL0200A-E	24 x 16.9 x 18.4	61
Mddd-09201760A	Yes	250	50	275	LRL0250A-C	7.5 x 9.5 x 7.5	35	LRL0250A-E	24 x 16.9 x 18.4	62
Mddd-09201760E	No	250	50	275	LRL0250A-C	7.5 x 9.5 x 7.5	35	LRL0250A-E	24 x 16.9 x 18.4	62
Mddd-09202190A	Yes	322	50	300	LRL0322A-C	7.5 x 9.3 x 9	57	LRL0322A-E	24 x 16.9 x 18.4	84
Mddd-09202190E	No	322	50	300	LRL0322A-C	7.5 x 9.3 x 9	57	LRL0322A-E	24 x 16.9 x 18.4	84
Meee-10202830	No	414	33	333	LRL0414A-C	8.8 x 9 x 9.5	78	LRL0414A-E	47 x 26.5 x 24.9	222
Meee-10203000	No	414	33	333	LRL0414A-C	8.8 x 9 x 9.5	78	LRL0414A-E	47 x 26.5 x 24.9	222

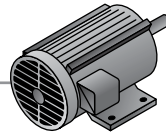
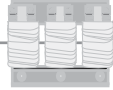
aaa = Unidrive M100, M101, M200, M201, M300, HS30, M400  
 bbb = Unidrive M600, M700, M701, M702, HS70, HS71, HS72  
 ccc = Unidrive M200, M201, M300, M400, M600, M700, M701, M702, HS70, HS71, HS72  
 ddd = Unidrive M200, M201, M300, M400, M600, M700, M701, M702  
 eee = Unidrive M600, M700, M701, M702

Line reactors are recommended for AC drives that do not include a built-in inductor.  
 For drive modules that include DC or AC inductors built-in, the line reactors above provide additional impedance.  
 Consult factory for different percentage impedance and NEMA 3R outdoor enclosure options.

# Output Load Reactors - 230 Vac



Load Reactor 3%



230 Vac 3 Phase									
Drive	Amps	Inductance (μH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
				Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Maaa-01100017	3.4	3200	12.3	LRL003A4-C	3.7 x 4.5 x 1.5	1.6	LRL003A4-E	8 x 8 x 6	8.6
Maaa-01100024	3.4	3200	12.3	LRL003A4-C	3.7 x 4.5 x 1.5	1.6	LRL003A4-E	8 x 8 x 6	8.6
Maaa-01200017	3.4	3200	12.3	LRL003A4-C	3.7 x 4.5 x 1.5	1.6	LRL003A4-E	8 x 8 x 6	8.6
Maaa-01200024	3.4	3200	12.3	LRL003A4-C	3.7 x 4.5 x 1.5	1.6	LRL003A4-E	8 x 8 x 6	8.6
Maaa-01200033	4.8	2300	13.8	LRL004A8-C	3.7 x 4.5 x 1.5	1.7	LRL004A8-E	8 x 8 x 6	8.7
Maaa-01200042	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02100042	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02100056	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02200024	3.4	3200	12.3	LRL003A4-C	3.7 x 4.5 x 1.5	1.6	LRL003A4-E	8 x 8 x 6	8.6
Maaa-02200033	4.8	2300	13.8	LRL004A8-C	3.7 x 4.5 x 1.5	1.7	LRL004A8-E	8 x 8 x 6	8.7
Maaa-02200042	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02200056	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-02200075	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7	LRL0011A-E	8 x 8 x 6	9.7
Maaa-03200100	14	790	32.7	LRL0014A-C	5.3 x 4.4 x 2.8	2.8	LRL0014A-E	8 x 8 x 6	9.8
Maaa-04200133	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Maaa-04200176	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1	LRL0028A-E	13.3 x 13.2 x 13.1	23.1
Mbbb-03200050	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7	LRL0011A-E	8 x 8 x 6	9.7
Mbbb-03200066	11	1000	26.8	LRL0011A-C	5 x 4.4 x 2.8	2.7	LRL0011A-E	8 x 8 x 6	9.7
Mbbb-03200080	14	790	32.7	LRL0014A-C	5.3 x 4.4 x 2.8	2.8	LRL0014A-E	8 x 8 x 6	9.8
Mbbb-03200106	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Mbbb-04200137	28	390	48.2	LRL0028A-C	5.3 x 4.4 x 3.5	5.1	LRL0028A-E	13.3 x 13.2 x 13.1	23.1
Mbbb-04200185	35	400	49	LRL0035A-C	6 x 6 x 3.5	10	LRL0035A-E	13.3 x 13.2 x 13.1	28
Mccc-05200250	46	300	77	LRL0046A-C	6 x 7.2 x 3.8	13	LRL0046A-E	13.3 x 13.2 x 13.1	31
Mccc-06200330	65	190	87	LRL0065A-C	6 x 7.2 x 4	18	LRL0065A-E	13.3 x 13.2 x 13.1	36
Mccc-06200440	83	170	119	LRL0083A-C	6 x 7.2 x 4.3	19	LRL0083A-E	13.3 x 13.2 x 13.1	37
Mccc-07200610	104	120	94	LRL0104A-C	6 x 7.2 x 6.5	22	LRL0104A-E	13.3 x 13.2 x 13.1	40
Mccc-07200750	130	95	132	LRL0130A-C	7.5 x 9.3 x 6.8	26	LRL0130A-E	13.3 x 13.2 x 13.1	44
Mccc-07200830	160	80	110	LRL0160A-C	7.5 x 9.3 x 6.8	34	LRL0160A-E	13.3 x 13.2 x 13.1	52
Mccc-08201160	200	60	159	LRL0200A-C	7.5 x 9.3 x 7	34	LRL0200A-E	24 x 16.9 x 18.4	61
Mccc-08201320	250	50	275	LRL0250A-C	7.5 x 9.5 x 7.5	35	LRL0250A-E	24 x 16.9 x 18.4	62
Mddd-09201760	322	50	300	LRL0322A-C	7.5 x 9.3 x 9	57	LRL0322A-E	24 x 16.9 x 18.4	84
Mddd-09202190	414	33	333	LRL0414A-C	8.8 x 9 x 9.5	78	LRL0414A-E	47 x 26.5 x 24.9	222
Meee-10202830	515	25	314	LRL0515A-C	8.8 x 9 x 9.5	81	LRL0515A-E	47 x 26.5 x 24.9	225
Meee-10203000	515	25	314	LRL0515A-C	8.8 x 9 x 9.5	81	LRL0515A-E	47 x 26.5 x 24.9	225

aaa = Unidrive M100, M101, M200, M201, M300, HS30, M400  
 bbb = Unidrive M600, M700, M701, M702, HS70, HS71, HS72  
 ccc = Unidrive M200, M201, M300, M400, M600, M700, M701, M702, HS70, HS71, HS72  
 ddd = Unidrive M200, M201, M300, M400, M600, M700, M701, M702  
 eee = Unidrive M600, M700, M701, M702  
 Consult factory for different percentage impedance and NEMA 3R outdoor enclosure options.



# Input Line Reactors - 460 Vac

Line Reactor 3%



460 Vac, 3 Phase 50/60 Hz												
Drive	Built-in Inductor	Amps	Inductance (μH)	Watts Loss	Chassis Mount				NEMA 1 Enclosed			
					Order Code	List Price	Dimensions H x W x D (in)	Weight (lbs)	Order Code	List Price	Dimensions H x W x D (in)	Weight (lbs)
Maaa-02400013	No	3.4	11000	26.5	LRH003A4-C	\$98	3.7 x 4.5 x 1.5	1.6	LRH003A4-E	\$220	8 x 8.1 x 6.1	8.6
Maaa-02400018	No	3.4	6800	19.6	LRM003A4-C	\$59	3.7 x 4.5 x 1.5	1.6	LRM003A4-E	\$190	8 x 8 x 6	8.6
Maaa-02400023	No	4.8	7700	37.5	LRH004A8-C	\$98	5 x 4.4 x 2.8	2.8	LRH004A8-E	\$225	8 x 8.1 x 6.1	8.6
Maaa-02400032	No	7.6	4800	47.8	LRH007A6-C	\$91	5 x 4.4 x 3.1	4.1	LRH007A6-E	\$295	8 x 8 x 6	11.1
Maaa-02400041	No	7.6	3000	37.2	LRM007A6-C	\$79	5 x 4.4 x 2.8	2.8	LRM007A6-E	\$205	8 x 8 x 6	9.8
Maaa-03400056	No	11	2100	40.9	LRM0011A-C	\$106	5 x 4.4 x 3.1	4.2	LRM0011A-E	\$280	8 x 8 x 6	11.2
Maaa-03400073	No	11	2100	40.9	LRM0011A-C	\$106	5 x 4.4 x 3.1	4.2	LRM0011A-E	\$280	8 x 8 x 6	11.2
Maaa-03400094	No	14	1600	48.2	LRM0014A-C	\$133	5 x 4.4 x 3.1	4.3	LRM0014A-E	\$315	8 x 8 x 6	11.3
Maaa-04400135	Yes	14	1600	48.2	LRM0014A-C	\$133	5 x 4.4 x 3.1	4.3	LRM0014A-E	\$315	8 x 8 x 6	11.3
Maaa-04400170	Yes	21	1100	57.4	LRM0021A-C	\$148	6.1 x 6 x 2.6	7.2	LRM0021A-E	\$315	13.3 x 13.2 x 13.1	25.2
Mbbb-03400025	No	7.6	4800	47.8	LRH007A6-C	\$91	5 x 4.4 x 3.1	4.1	LRH007A6-E	\$295	8 x 8 x 6	11.1
Mbbb-03400031	No	7.6	3000	37.2	LRM007A6-C	\$79	5 x 4.4 x 2.8	2.8	LRM007A6-E	\$205	8 x 8 x 6	9.8
Mbbb-03400045	No	11	2100	40.9	LRM0011A-C	\$106	5 x 4.4 x 3.1	4.2	LRM0011A-E	\$280	8 x 8 x 6	11.2
Mbbb-03400062	No	14	1600	48.2	LRM0014A-C	\$133	5 x 4.4 x 3.1	4.3	LRM0014A-E	\$315	8 x 8 x 6	11.3
Mbbb-03400078	Yes	14	1600	48.2	LRM0014A-C	\$133	5 x 4.4 x 3.1	4.3	LRM0014A-E	\$315	8 x 8 x 6	11.3
Mbbb-03400100	Yes	21	1100	57.4	LRM0021A-C	\$148	6.1 x 6 x 2.6	7.2	LRM0021A-E	\$315	13.3 x 13.2 x 13.1	25.2
Mbbb-04400150	Yes	21	1100	57.4	LRM0021A-C	\$148	6.1 x 6 x 2.6	7.2	LRM0021A-E	\$315	13.3 x 13.2 x 13.1	25.2
Mbbb-04400172	Yes	28	820	68.8	LRM0028A-C	\$138	6.1 x 6 x 3.3	9	LRM0028A-E	\$295	13.3 x 13.2 x 13.1	28.4
Mccc-05400270	Yes	35	710	102	LRM0035A-C	\$170	6 x 7.2 x 3.8	13	LRM0035A-E	\$315	13.3 x 13.2 x 13.1	31
Mccc-05400300	Yes	35	710	102	LRM0035A-C	\$170	6 x 7.2 x 3.8	13	LRM0035A-E	\$315	13.3 x 13.2 x 13.1	31
Mccc-06400350	Yes	46	550	99	LRM0046A-C	\$235	6 x 7.2 x 4.3	17	LRM0046A-E	\$400	13.3 x 13.2 x 13.1	35
Mccc-06400420	Yes	46	550	99	LRM0046A-C	\$235	6 x 7.2 x 4.3	17	LRM0046A-E	\$400	13.3 x 13.2 x 13.1	35
Mccc-06400470	Yes	65	380	105	LRM0065A-C	\$355	6 x 7.2 x 4.3	22	LRM0065A-E	\$505	13.3 x 13.2 x 13.1	40
Mccc-07400660	Yes	83	290	155	LRM0083A-C	\$355	7 x 9 x 6.5	26	LRM0083A-E	\$505	13.3 x 13.2 x 13.1	44
Mccc-07400770	Yes	104	230	200	LRM0104A-C	\$385	7 x 9 x 7	28	LRM0104A-E	\$540	13.3 x 13.2 x 13.1	46
Mccc-07401000	Yes	130	180	197	LRM0130A-C	\$480	7.5 x 9.3 x 6.8	37	LRM0130A-E	\$690	13.3 x 13.2 x 13.1	55
Mccc-08401340	Yes	160	155	195	LRM0160A-C	\$665	7.5 x 9.3 x 8.3	49	LRM0160A-E	\$940	13.3 x 13.2 x 13.1	67
Mccc-08401570	Yes	200	115	224	LRM0200A-C	\$505	7.5 x 9.3 x 8.3	49	LRM0200A-E	\$850	24 x 16.9 x 18.4	82
Mddd-09402000A	Yes	250	95	284	LRM0250A-C	\$890	7.5 x 9.3 x 8.5	55	LRM0250A-E	\$1,155	24 x 16.9 x 18.4	82
Mddd-09402000E	No	250	95	284	LRM0250A-C	\$890	7.5 x 9.3 x 8.5	55	LRM0250A-E	\$1,155	24 x 16.9 x 18.4	82
Mddd-09402240A	Yes	322	70	383	LRM0322A-C	\$925	8.8 x 10.8 x 8.5	76	LRM0322A-E	\$1,625	47 x 26.5 x 24.9	220
Mddd-09402240E	No	322	70	383	LRM0322A-C	\$925	8.8 x 10.8 x 8.5	76	LRM0322A-E	\$1,625	47 x 26.5 x 24.9	220
Meee-10402700	No	322	70	383	LRM0322A-C	\$925	8.8 x 10.8 x 8.5	76	LRM0322A-E	\$1,625	47 x 26.5 x 24.9	220
Meee-10403200	No	414	66	531	LRM0414A-C	\$1,610	8.8 x 9 x 11.5	98	LRM0414A-E	\$2,000	47 x 26.5 x 24.9	242
Meee-11403770	No	515	50	496	LRM0515A-C	\$1,805	8.8 x 9 x 12	118	LRM0515A-E	\$2,640	47 x 26.5 x 24.9	262
Meee-11404170	No	515	50	496	LRM0515A-C	\$1,805	8.8 x 9 x 12	118	LRM0515A-E	\$2,640	47 x 26.5 x 24.9	262
Meee-11404640	No	515	50	496	LRM0515A-C	\$1,805	8.8 x 9 x 12	118	LRM0515A-E	\$2,640	47 x 26.5 x 24.9	262

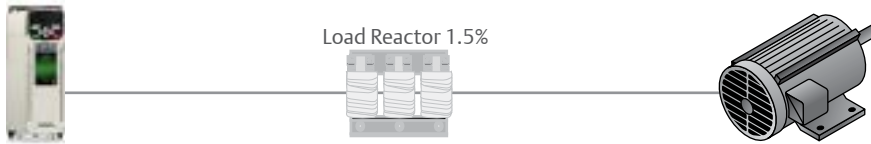
aaa = Unidrive M100, M101, M200, M201, M300, HS30, M400  
 bbb = Unidrive M600, M700, M701, M702, HS70, HS71, HS72  
 ccc = Unidrive M200, M201, M300, M400, M600, M700, M701, M702, HS70, HS71, HS72  
 ddd = Unidrive M200, M201, M300, M400, M600, M700, M701, M702  
 eee = Unidrive M600, M700, M701, M702

Line reactors are recommended for AC drives that do not include a built-in inductor.  
 For drive modules that include DC or AC inductors built-in, the line reactors above provide additional impedance.  
 Consult factory for different percentage impedance and NEMA 3R outdoor enclosure options.





# Output Load Reactors - 460 Vac



460 Vac, 3 Phase									
Drive	Amps	Inductance (μH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
				Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Maaa-02400013	2.1	11000	14.3	LRM002A1-C	3.7 x 4.5 x 1.5	1.6	LRM002A1-E	8 x 8 x 6	8.6
Maaa-02400018	3.4	6800	19.6	LRM003A4-C	3.7 x 4.5 x 1.5	1.6	LRM003A4-E	8 x 8 x 6	8.6
Maaa-02400023	3.4	6800	19.6	LRM003A4-C	3.7 x 4.5 x 1.5	1.6	LRM003A4-E	8 x 8 x 6	8.6
Maaa-02400032	4.8	4800	23	LRM004A8-C	3.7 x 4.5 x 1.5	1.8	LRM003A4-E	8 x 8 x 6	8.6
Maaa-02400041	7.6	3000	37.2	LRM007A6-C	5 x 4.4 x 2.8	2.8	LRM007A6-E	8 x 8 x 6	9.8
Maaa-03400056	7.6	1500	19.2	LRL007A6-C	3.7 x 4.5 x 1.5	1.8	LRL007A6-E	8 x 8 x 6	8.8
Maaa-03400073	11	2100	40.9	LRM0011A-C	5 x 4.4 x 3.1	4.2	LRM0011A-E	8 x 8 x 6	11.2
Maaa-03400094	14	1600	48.2	LRM0014A-C	5 x 4.4 x 3.1	4.3	LRM0014A-E	8 x 8 x 6	11.3
Maaa-04400135	21	1100	57.4	LRM0021A-C	6.1 x 6 x 2.6	7.2	LRM0021A-E	13.3 x 13.2 x 13.1	25.2
Maaa-04400170	21	530	38.3	LRL0021A-C	5.3 x 4.4 x 3.3	4.2	LRL0021A-E	13.3 x 13.2 x 13.1	22.2
Mbbb-03400025	4.8	4800	23	LRM004A8-C	3.7 x 4.5 x 1.5	1.8	LRM003A4-E	8 x 8 x 6	8.6
Mbbb-03400031	7.6	3000	37.2	LRM007A6-C	5 x 4.4 x 2.8	2.8	LRM007A6-E	8 x 8 x 6	9.8
Mbbb-03400045	11	2100	40.9	LRM0011A-C	5 x 4.4 x 3.1	4.2	LRM0011A-E	8 x 8 x 6	11.2
Mbbb-03400062	11	2100	40.9	LRM0011A-C	5 x 4.4 x 3.1	4.2	LRM0011A-E	8 x 8 x 6	11.2
Mbbb-03400078	14	1600	48.2	LRM0014A-C	5 x 4.4 x 3.1	4.3	LRM0014A-E	8 x 8 x 6	11.3
Mbbb-03400100	21	1100	57.4	LRM0021A-C	6.1 x 6 x 2.6	7.2	LRM0021A-E	13.3 x 13.2 x 13.1	25.2
Mbbb-04400150	28	820	68.8	LRM0028A-C	6.1 x 6 x 3.3	9	LRM0028A-E	13.3 x 13.2 x 13.1	28.4
Mbbb-04400172	35	710	102	LRM0035A-C	6 x 7.2 x 3.8	13	LRM0035A-E	13.3 x 13.2 x 13.1	31
Mccc-05400270	46	300	77	LRL0046A-C	6 x 7.2 x 3.8	13	LRL0046A-E	13.3 x 13.2 x 13.1	31
Mccc-05400300	46	300	77	LRL0046A-C	6 x 7.2 x 3.8	13	LRL0046A-E	13.3 x 13.2 x 13.1	31
Mccc-06400350	55	270	67	LRL0055A-C	6 x 7.2 x 4	18	LRL0055A-E	13.3 x 13.2 x 13.1	36
Mccc-06400420	65	190	87	LRL0065A-C	6 x 7.2 x 4	18	LRL0065A-E	13.3 x 13.2 x 13.1	36
Mccc-06400470	83	170	119	LRL0083A-C	6 x 7.2 x 4.3	19	LRL0083A-E	13.3 x 13.2 x 13.1	37
Mccc-07400660	104	120	94	LRL0104A-C	6 x 7.2 x 6.5	22	LRL0104A-E	13.3 x 13.2 x 13.1	40
Mccc-07400770	130	95	132	LRL0130A-C	7.5 x 9.3 x 6.8	26	LRL0130A-E	13.3 x 13.2 x 13.1	44
Mccc-07401000	160	80	110	LRL0160A-C	7.5 x 9.3 x 6.8	34	LRL0160A-E	13.3 x 13.2 x 13.1	52
Mccc-08401340	200	60	159	LRL0200A-C	7.5 x 9.3 x 7	34	LRL0200A-E	24 x 16.9 x 18.4	61
Mccc-08401570	250	50	275	LRL0250A-C	7.5 x 9.5 x 7.5	35	LRL0250A-E	24 x 16.9 x 18.4	62
Mddd-09402000	322	50	300	LRL0322A-C	7.5 x 9.3 x 9	57	LRL0322A-E	24 x 16.9 x 18.4	84
Mddd-09402240	414	33	333	LRL0414A-C	8.8 x 9 x 9.5	78	LRL0414A-E	47 x 26.5 x 24.9	222
Meee-10402700	414	33	333	LRL0414A-C	8.8 x 9 x 9.5	78	LRL0414A-E	47 x 26.5 x 24.9	222
Meee-10403200	515	25	314	LRL0515A-C	8.8 x 9 x 9.5	81	LRL0515A-E	47 x 26.5 x 24.9	225
Meee-11403770	515	25	314	LRL0515A-C	8.8 x 9 x 9.5	81	LRL0515A-E	47 x 26.5 x 24.9	225
Meee-11404170	515	25	314	LRL0515A-C	8.8 x 9 x 9.5	81	LRL0515A-E	47 x 26.5 x 24.9	225
Meee-11404640	515	25	314	LRL0515A-C	8.8 x 9 x 9.5	81	LRL0515A-E	47 x 26.5 x 24.9	225

aaa = Unidrive M100, M101, M200, M201, M300, HS30, M400  
 bbb = Unidrive M600, M700, M701, M702, HS70, HS71, HS72  
 ccc = Unidrive M200, M201, M300, M400, M600, M700, M701, M702, HS70, HS71, HS72  
 ddd = Unidrive M200, M201, M300, M400, M600, M700, M701, M702  
 eee = Unidrive M600, M700, M701, M702  
 Consult factory for different percentage impedance and NEMA 3R outdoor enclosure options.



# Input Line Reactors - 575 Vac & 690 Vac

Line Reactor 3%



575 Vac, 3 Phase 50/60 Hz										
Drive	Built-in Inductor	Amps	Inductance (µH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
					Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Mccc-05500030	Yes	4.8	7700	37.5	LRH004A8-C	5 x 4.4 x 2.8	2.8	LRH004A8-E	8 x 8.1 x 6.1	8.6
Mccc-05500040	Yes	7.6	4800	47.8	LRH007A6-C	5 x 4.4 x 3.1	4.1	LRH007A6-E	8 x 8 x 6	11.1
Mccc-05500069	Yes	11	2100	40.9	LRM0011A-C	5 x 4.4 x 3.1	4.2	LRM0011A-E	8 x 8 x 6	11.2
Mccc-06500100	Yes	14	2600	60.6	LRH0014A-C	5.8 x 6 x 2.9	7.1	LRH0014A-E	8 x 8.1 x 6.1	12.3
Mccc-06500150	Yes	21	1800	73.5	LRH0021A-C	6.1 x 6 x 3.3	10	LRH0021A-E	13.3 x 13.2 x 13.1	28
Mccc-06500190	Yes	28	1300	93.8	LRH0028A-C	6.1 x 6 x 3.3	10.4	LRH0028A-E	13.3 x 13.2 x 13.1	28.4
Mccc-06500230	Yes	35	1200	121	LRH0035A-C	6 x 7.2 x 4.3	18	LRH0035A-E	13.3 x 13.2 x 13.1	27
Mccc-06500290	Yes	46	550	99	LRM0046A-C	6 x 7.2 x 4.3	17	LRM0046A-E	13.3 x 13.2 x 13.1	35
Mccc-06500350	Yes	55	480	109	LRM0055A-C	6 x 7.2 x 4.3	20	LRM0055A-E	13.3 x 13.2 x 13.1	38
Mccc-07500440	Yes	46	550	99	LRM0046A-C	6 x 7.2 x 4.3	17	LRM0046A-E	13.3 x 13.2 x 13.1	35
Mccc-07500550	Yes	65	380	105	LRM0065A-C	6 x 7.2 x 4.3	22	LRM0065A-E	13.3 x 13.2 x 13.1	40
Mccc-08500630	Yes	83	290	155	LRM0083A-C	7 x 9 x 6.5	26	LRM0083A-E	13.3 x 13.2 x 13.1	44
Mccc-08500860	Yes	104	230	200	LRM0104A-C	7 x 9 x 7	28	LRM0104A-E	13.3 x 13.2 x 13.1	46
Mddd-09501040A	Yes	130	180	197	LRM0130A-C	7.5 x 9.3 x 6.8	37	LRM0130A-E	13.3 x 13.2 x 13.1	55
Mddd-09501040E	No	130	180	197	LRM0130A-C	7.5 x 9.3 x 6.8	37	LRM0130A-E	13.3 x 13.2 x 13.1	55
Mddd-09501310A	Yes	160	155	195	LRM0160A-C	7.5 x 9.3 x 8.3	49	LRM0160A-E	13.3 x 13.2 x 13.1	67
Mddd-09501310E	No	160	155	195	LRM0160A-C	7.5 x 9.3 x 8.3	49	LRM0160A-E	13.3 x 13.2 x 13.1	67
Meee-10501520	No	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-10501900	No	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-11502000	No	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-11502540	No	322	70	383	LRM0322A-C	8.8 x 10.8 x 8.5	76	LRM0322A-E	47 x 26.5 x 24.9	220
Meee-11502850	No	322	70	383	LRM0322A-C	8.8 x 10.8 x 8.5	76	LRM0322A-E	47 x 26.5 x 24.9	220

690 Vac, 3 Phase 50/60 Hz										
Drive	Built-in Inductor	Amps	Inductance (µH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
					Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Mccc-07600190	Yes	21	1800	73.5	LRH0021A-C	6.1 x 6 x 3.3	10	LRH0021A-E	13.3 x 13.2 x 13.1	28
Mccc-07600240	Yes	28	1300	93.8	LRH0028A-C	6.1 x 6 x 3.3	10.4	LRH0028A-E	13.3 x 13.2 x 13.1	28.4
Mccc-07600290	Yes	35	1200	121	LRH0035A-C	6 x 7.2 x 4.3	18	LRH0035A-E	13.3 x 13.2 x 13.1	27
Mccc-07600380	Yes	46	980	179	LRH0046A-C	8.3 x 9 x 4.8	24	LRH0046A-E	13.3 x 13.2 x 13.1	35
Mccc-07600440	Yes	46	980	179	LRH0046A-C	8.3 x 9 x 4.8	24	LRH0046A-E	13.3 x 13.2 x 13.1	35
Mccc-07600540	Yes	65	640	214	LRH0065A-C	7 x 9 x 6.5	26	LRH0065A-E	13.3 x 13.2 x 13.1	40
Mccc-08600630	Yes	83	510	197	LRH0083A-C	7 x 9 x 6.8	35	LRH0083A-E	13.3 x 13.2 x 13.1	44
Mccc-08600860	Yes	104	375	208	LRH0104A-C	7 x 7.3 x 7.3	41	LRH0104A-E	13.3 x 13.2 x 13.1	46
Mddd-09601040A	Yes	130	300	197	LRH0130A-C	7.5 x 9.3 x 8.3	52	LRH0130A-E	13.3 x 13.2 x 13.1	55
Mddd-09601040E	No	130	300	197	LRH0130A-C	7.5 x 9.3 x 8.3	52	LRH0130A-E	13.3 x 13.2 x 13.1	55
Mddd-09601310A	Yes	160	260	309	LRH0160A-C	7.5 x 9.3 x 8.3	53	LRH0160A-E	24 x 17.1 x 18.4	67
Mddd-09601310E	No	160	260	309	LRH0160A-C	7.5 x 9.3 x 8.3	53	LRH0160A-E	24 x 17.1 x 18.4	67
Meee-10601500	No	200	200	293	LRH0200A-C	8.3 x 10.8 x 9	75	LRM0200A-E	24 x 16.9 x 18.4	82
Meee-10601780	No	200	200	293	LRH0200A-C	8.3 x 10.8 x 9	75	LRM0200A-E	24 x 16.9 x 18.4	82
Meee-11602100	No	250	160	402	LRH0250A-C	7.5 x 9.3 x 8.5	93	LRH0250A-E	24 x 16.9 x 18.4	120
Meee-11602380	No	322	130	494	LRH0322A-C	8.8 x 10.8 x 8.5	108	LRH0322A-E	47 x 26.5 x 24.9	252
Meee-11602630	No	322	130	494	LRH0322A-C	8.8 x 10.8 x 8.5	108	LRH0322A-E	47 x 26.5 x 24.9	252

ccc = Unidrive M200, M201, M300, M400, M600, M700, M701, M702, HS70, HS71, HS72

ddd = Unidrive M200, M201, M300, M400, M600, M700, M701, M702

eee = Unidrive M600, M700, M701, M702

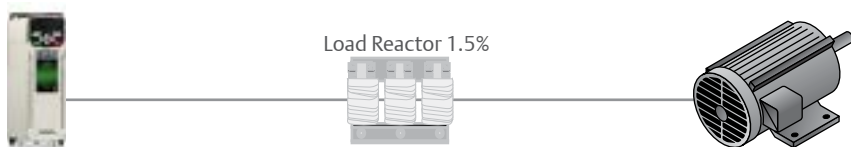
Line reactors are recommended for AC drives that do not include a built-in inductor.

For drive modules that include DC or AC inductors built-in, the line reactors above provide additional impedance.

Consult factory for different percentage impedance and NEMA 3R outdoor enclosure options.



# Output Load Reactors - 575 Vac & 690 Vac



575 Vac, 3 Phase									
Drive	Amps	Inductance (μH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
				Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Mccc-05500030	7.6	4800	47.8	LRH007A6-C	5 x 4.4 x 3.1	4.1	LRH007A6-E	8 x 8 x 6	11.1
Mccc-05500040	11	2100	40.9	LRM0011A-C	5 x 4.4 x 3.1	4.2	LRM0011A-E	8 x 8 x 6	11.2
Mccc-05500069	14	1600	48.2	LRM0014A-C	5 x 4.4 x 3.1	4.3	LRM0014A-E	8 x 8 x 6	11.3
Mccc-06500100	21	1800	73.5	LRH0021A-C	5 x 4.4 x 3.1	4.3	LRH0021A-E	13.3 x 13.2 x 13.1	28
Mccc-06500150	28	820	68.8	LRM0028A-C	5 x 4.4 x 3.1	4.3	LRM0028A-E	13.3 x 13.2 x 13.1	28.4
Mccc-06500190	28	820	68.8	LRM0028A-C	5 x 4.4 x 3.1	4.3	LRM0028A-E	13.3 x 13.2 x 13.1	28.4
Mccc-06500230	35	400	49	LRL0035A-C	5 x 4.4 x 3.1	4.3	LRL0035A-E	13.3 x 13.2 x 13.1	28
Mccc-06500290	46	300	77	LRL0046A-C	5 x 4.4 x 3.1	4.3	LRL0046A-E	13.3 x 13.2 x 13.1	31
Mccc-06500350	55	270	67	LRL0055A-C	5 x 4.4 x 3.1	4.3	LRL0055A-E	13.3 x 13.2 x 13.1	36
Mccc-07500440	83	290	155	LRM0083A-C	5 x 4.4 x 3.1	4.3	LRM0083A-E	13.3 x 13.2 x 13.1	44
Mccc-07500550	104	230	200	LRM0104A-C	5 x 4.4 x 3.1	4.3	LRM0104A-E	13.3 x 13.2 x 13.1	46
Mccc-08500630	130	180	197	LRM0130A-C	5 x 4.4 x 3.1	4.3	LRM0130A-E	13.3 x 13.2 x 13.1	55
Mccc-08500860	160	155	195	LRM0160A-C	5 x 4.4 x 3.1	4.3	LRM0160A-E	13.3 x 13.2 x 13.1	67
Mddd-09501040	160	80	110	LRL0160A-C	7.5 x 9.3 x 6.8	34	LRL0160A-E	13.3 x 13.2 x 13.1	52
Mddd-09501310	200	115	224	LRM0200A-C	7.5 x 9.3 x 8.3	49	LRM0200A-E	24 x 16.9 x 18.4	82
Meee-10501520	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-10501900	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-11502000	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-11502540	322	70	383	LRM0322A-C	8.8 x 10.8 x 8.5	76	LRM0322A-E	47 x 26.5 x 24.9	220
Meee-11502850	322	70	383	LRM0322A-C	8.8 x 10.8 x 8.5	76	LRM0322A-E	47 x 26.5 x 24.9	220

690 Vac, 3 Phase									
Drive	Amps	Inductance (μH)	Watts Loss	Chassis Mount			NEMA 1 Enclosed		
				Order Code	Dimensions H x W x D (in)	Weight (lbs)	Order Code	Dimensions H x W x D (in)	Weight (lbs)
Mccc-07600190	35	710	102	LRM0035A-C	6 x 7.2 x 3.8	13	LRM0035A-E	13.3 x 13.2 x 13.1	31
Mccc-07600240	46	550	99	LRM0046A-C	6 x 7.2 x 4.3	17	LRM0046A-E	13.3 x 13.2 x 13.1	35
Mccc-07600290	46	550	99	LRM0046A-C	6 x 7.2 x 4.3	17	LRM0046A-E	13.3 x 13.2 x 13.1	35
Mccc-07600380	65	380	105	LRM0065A-C	6 x 7.2 x 4.3	22	LRM0065A-E	13.3 x 13.2 x 13.1	40
Mccc-07600440	65	380	105	LRM0065A-C	6 x 7.2 x 4.3	22	LRM0065A-E	13.3 x 13.2 x 13.1	40
Mccc-07600540	104	230	200	LRM0104A-C	7 x 9 x 7	28	LRM0104A-E	13.3 x 13.2 x 13.1	46
Mccc-08600630	130	180	197	LRM0130A-C	7.5 x 9.3 x 6.8	37	LRM0130A-E	13.3 x 13.2 x 13.1	55
Mccc-08600860	160	155	195	LRM0160A-C	7.5 x 9.3 x 8.3	49	LRM0160A-E	13.3 x 13.2 x 13.1	67
Mddd-09601040	160	155	195	LRM0160A-C	7.5 x 9.3 x 8.3	49	LRM0160A-E	13.3 x 13.2 x 13.1	67
Mddd-09601310	200	115	224	LRM0200A-C	7.5 x 9.3 x 8.3	49	LRM0200A-E	24 x 16.9 x 18.4	82
Meee-10601500	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-10601780	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-11602100	250	95	284	LRM0250A-C	7.5 x 9.3 x 8.5	55	LRM0250A-E	24 x 16.9 x 18.4	82
Meee-11602380	322	70	383	LRM0322A-C	8.8 x 10.8 x 8.5	76	LRM0322A-E	47 x 26.5 x 24.9	220
Meee-11602630	322	70	383	LRM0322A-C	8.8 x 10.8 x 8.5	76	LRM0322A-E	47 x 26.5 x 24.9	220

ccc = Unidrive M200, M201, M300, M400, M600, M700, M701, M702, HS70, HS71, HS72

ddd = Unidrive M200, M201, M300, M400, M600, M700, M701, M702

eee = Unidrive M600, M700, M701, M702

Consult factory for different percentage impedance and NEMA 3R outdoor enclosure options.

