

RL REACTOR SELECTION TABLES

Input Voltage & Hz	% Impedance	0.25 HP 0.18 kw	0.33 HP 0.25 kw	0.5 HP 0.37 kw	0.75 HP 0.55 kw	1.0 HP 0.75 kw	1.5 HP 1.1 kw	2.0 HP 1.5 kw	3.0 HP 2.2 kw	5.0 HP 3.7 kw	7.5 HP 5.5 kw	10.0 HP 7.5 kw	15.0 HP 11.0 kw	20.0 HP 15.0 kw	25.0 HP 18.5 kw	30.0 HP 22.0 kw
Three Phase Input or Output Applications Selected by Motor																
208V 60 Hz	3%	RL-00204	RL-00204	RL-00401	RL-00401	RL-00801	RL-00801	RL-00801	RL-01801	RL-02501	RL-03501	RL-05501	RL-05501	RL-08001	RL-10001	RL-10001
208V 60 Hz	5%	RL-00201	RL-00403	RL-00402	RL-00803	RL-00802	RL-00802	RL-01202	RL-01802	RL-02502	RL-03502	RL-05502	RL-04501	RL-05501	RL-08001	RL-13002
240V 60 Hz	3%	RL-00204	RL-00204	RL-00402	RL-00401	RL-00802	RL-00801	RL-00801	RL-01201	RL-01801	RL-02501	RL-03501	RL-04501	RL-05501	RL-08001	RL-10001
240V 60 Hz	5%	RL-00201	RL-00201	RL-00403	RL-00402	RL-00803	RL-00802	RL-00802	RL-01202	RL-02502	RL-03502	RL-03502	RL-05502	RL-08002	RL-10001	RL-08001
400V 50 Hz	3%	RL-00103	RL-00103	RL-00202	RL-00201	RL-00403	RL-00402	RL-00402	RL-00803	RL-00802	RL-01202	RL-01802	RL-02502	RL-03502	RL-04502	RL-04502
400V 50 Hz	5%	RL-00102	RL-00102	RL-00203	RL-00202	RL-00202	RL-00404	RL-00403	RL-00804	RL-00803	RL-01203	RL-01803	RL-02503	RL-03503	RL-04503	RL-05503
480V 60 Hz	3%	RL-00103	RL-00103	RL-00104	RL-00201	RL-00201	RL-00402	RL-00402	RL-00803	RL-00802	RL-01202	RL-01802	RL-02502	RL-03502	RL-03502	RL-04502
480V 60 Hz	5%	RL-00102	RL-00102	RL-00103	RL-00202	RL-00202	RL-00404	RL-00403	RL-00804	RL-00803	RL-01203	RL-01803	RL-02503	RL-03503	RL-03503	RL-05503
600V 60 Hz	3%	RL-00102	RL-00103	RL-00103	RL-00202	RL-00202	RL-00201	RL-00403	RL-00402	RL-00803	RL-01202	RL-01202	RL-01802	RL-02502	RL-02502	RL-03502
600V 60 Hz	5%	RL-00101	RL-00102	RL-00102	RL-00203	RL-00203	RL-00202	RL-00404	RL-00404	RL-00804	RL-01203	RL-01203	RL-01803	RL-02503	RL-02503	RL-03503
690V 50 Hz	2%	-	-	-	-	-	-	-	RL-00403	RL-00803	RL-00803	RL-01202	RL-01202	RL-01802	RL-02502	RL-02502
690V 50 Hz	3%	-	-	-	-	-	-	-	RL-00404	RL-00804	RL-00804	RL-01203	RL-01203	RL-01803	RL-02503	RL-02503
Single Phase Input Applications																
120V 60 Hz	5%	RL-01801	RL-01801	RL-01201	RL-01801	RL-01801	RL-02501	RL-03501	RL-05501	RL-10001	RL-16001	RL-20001B14	-	-	-	-
208V 60 Hz	5%	RL-00204	RL-00803	RL-00802	RL-01202	RL-00801	RL-01201	RL-01201	RL-01801	RL-03501	RL-04501	RL-05501	RL-08001	RL-10001	RL-13001	RL-16001
240V 60 Hz	5%	RL-00402	RL-00402	RL-00803	RL-00802	RL-01202	RL-01201	RL-01201	RL-01801	RL-02501	RL-04501	RL-04501	RL-08001	RL-10001	RL-13001	RL-16002
240V 50 Hz	5%	RL-00403	RL-00402	RL-00803	RL-00802	RL-00802	RL-01802	RL-01802	RL-02502	RL-03502	RL-03501	RL-05502	RL-10002	RL-13002	RL-13002	RL-16002
400V 50 Hz	5%	RL-00103	RL-00203	RL-00201	RL-00404	RL-00403	RL-00803	RL-00803	RL-01203	RL-01803	RL-02503	RL-03503	RL-04502	RL-05502	RL-08002	RL-08002
480V 60 Hz	5%	RL-00203	RL-00202	RL-00202	RL-00404	RL-00403	RL-00803	RL-00803	RL-01203	RL-01803	RL-02503	RL-02502	RL-04502	RL-05503	RL-08003	RL-08002
600V 60 Hz	5%	RL-00102	RL-00103	RL-00202	RL-00202	RL-00404	RL-00403	RL-00804	RL-00803	RL-01203	RL-01803	RL-02503	RL-03503	RL-04503	RL-05503	RL-05503

Note: The recommended reactor selections above are based on fundamental current ratings. Contact appengrg@mtecorp.com with any questions regarding the proper reactor selection.

Impedance Rating:

3% impedance reactors are typically sufficient to absorb power line spikes and motor current surges. They will prevent nuisance tripping of drives or circuit breakers in most applications.

5% impedance reactors are best for reducing harmonic currents and frequencies. Use them when you must reduce VFD drive generated harmonics, and to reduce motor operating temperature, or to reduce motor noise.

40.0 HP 30.0 kw	50.0 HP 37.5 kw	60.0 HP 45.0 kw	75.0 HP 55.0 kw	100.0 HP 75.0 kw	125.0 HP 93.0 kw	150.0 HP 112.0 kw	200.0 HP 150.0 kw	250.0 HP 187.0 kw	300.0 HP 225.0 kw	350.0 HP 262.0 kw	400.0 HP 300.0 kw	500.0 HP 375.0 kw	600.0 HP 450.0 kw	700.0 HP 550.0 kw	800.0 HP 600.0 kw
Three Phase Input or Output Applications Selected by Motor															
RL-13001	RL-16001	RL-20001B14	RL-25001B14	RL-32001B14	RL-40001B14	RL-50001B14	RL-60001	RL-75001	RL-85001B14	RL-100001B14	RL-120001B14	RL-140001	-	-	-
RL-16002	RL-20002B14	RL-25002B14	RL-32002B14	RL-40002B14	RL-50002	RL-75002	RL-75002	RL-75002	RL-90002B14	RL-100002B14	RL-120002B14	RL-150002	-	-	-
RL-13001	RL-13001	RL-16001	RL-20001B14	RL-25001B14	RL-32001B14	RL-40001B14	RL-50001B14	RL-60001	RL-75001	RL-85001B14	RL-100001B14	RL-120001B14	-	-	-
RL-13002	RL-16002	RL-16002	RL-20002B14	RL-25002B14	RL-40002B14	RL-40002B14	RL-60002	RL-75002	RL-75002	RL-85002B14	RL-100002B14	RL-140002	-	-	-
RL-08002	RL-08002	RL-10002	RL-13002	RL-16002	RL-20002B14	RL-20002B14	RL-32002B14	RL-40002B14	RL-40002B14	RL-50002	RL-60002	RL-75002	RL-85002B14	RL-90002B14	RL-120002B14
RL-08003	RL-10003	RL-10003	RL-13003	RL-16003	RL-20003B14	RL-20003B14	RL-32003B14	RL-40003B14	RL-40003B14	RL-50003	RL-60003	RL-75003	RL-85003B14	RL-90003B14	RL-120003B14
RL-05502	RL-08002	RL-10002	RL-10002	RL-13002	RL-16002	RL-20002B14	RL-25002B14	RL-32002B14	RL-40002B14	RL-50002	RL-50002	RL-60002	RL-75002	RL-85002B14	RL-100002B14
RL-05503	RL-08003	RL-10003	RL-10003	RL-13003	RL-16003	RL-20003B14	RL-25003B14	RL-32003B14	RL-40003B14	RL-50003	RL-50003	RL-60003	RL-75003	RL-85003B14	RL-100003B14
RL-04502	RL-05502	RL-08002	RL-08002	RL-10002	RL-13002	RL-16002	RL-20002B14	RL-25002B14	RL-32002B14	RL-32002B14	RL-40002B14	RL-50002	RL-60002	RL-75002	RL-75002
RL-04503	RL-05503	RL-08003	RL-08003	RL-10003	RL-13003	RL-16003	RL-20003B14	RL-25003B14	RL-32003B14	RL-32003B14	RL-40003B14	RL-50003	RL-60003	RL-75003	RL-75003
RL-03502	RL-04502	RL-05502	RL-05502	RL-08002	RL-10002	RL-13002	RL-16002	RL-20002B14	RL-25002B14	RL-25002B14	RL-32002B14	RL-40002B14	RL-40002B14	RL-50002	RL-60002
RL-03503	RL-04503	RL-04502	RL-05503	RL-08003	RL-10003	RL-13003	RL-16003	RL-20003B14	RL-25003B14	RL-25003B14	RL-32003B14	RL-40003B14	RL-50003	RL-50003	RL-60003
Single Phase Input Applications															
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RL-20001B14	RL-25001B14	RL-32001B14	RL-40001B14	RL-50001B14	-	-	-	-	-	-	-	-	-	-	-
RL-20002B14	RL-25002B14	RL-32002B14	RL-32001B14	RL-40001B14	-	-	-	-	-	-	-	-	-	-	-
RL-13002	RL-25002B14	RL-32002B14	RL-40002B14	RL-50002	-	-	-	-	-	-	-	-	-	-	-
RL-10002	RL-13003	RL-16003	RL-20003B14	RL-25003B14	-	-	-	-	-	-	-	-	-	-	-
RL-10002	RL-13003	RL-16003	RL-20003B14	RL-25003B14	RL-32003B14	RL-40003B14	RL-40003B14	-	-	-	-	-	-	-	-
RL-08003	RL-10003	RL-13003	RL-13003	RL-20003B14	RL-25003B14	RL-25003B14	RL-32003B14	-	-	-	-	-	-	-	-

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Open					
Open Part Number	Amps Rating	Inductance mh	Watts Loss	Open Weight (lbs)	Size (In) (H x W x D)
RL-00101	1	100	13.5	2.2	3.5 x 3.8 x 1.2
RL-00102	1	50	12.8	2.1	3.5 x 3.8 x 1.2
RL-00103	1	36	11.9	2.1	3.5 x 3.8 x 1.2
RL-00104	1	18	9.6	3	4.0 x 4.2 x 2.6
RL-00201	2	12	7.5	4	4.1 x 4.4 x 2.8
RL-00202	2	20	11.3	4	4.1 x 4.4 x 2.8
RL-00203	2	32	16	4	4.1 x 4.4 x 2.8
RL-00204	2	6	10.7	3	4.1 x 4.4 x 2.5
RL-00401	4	3	14.5	4	4.1 x 4.4 x 2.8
RL-00402	4	6.5	20	4	4.1 x 4.4 x 2.8
RL-00403	4	9	20	5	4.1 x 4.4 x 3.4
RL-00404	4	12	21	6	4.1 x 4.4 x 3.4
RL-00801	8	1.5	19.5	7	4.8 x 6 x 3
RL-00802	8	3	29	8	4.8 x 6 x 3
RL-00803	8	5	25.3	11	4.8 x 6 x 3.4
RL-00804	8	7.5	28	13	4.8 x 6 x 3.4
RL-01201	12	1.25	26	9	5 x 6 x 3.3
RL-01202	12	2.5	31	10	5 x 6 x 3.3
RL-01203	12	4.2	41	18	5 x 6 x 3.9
RL-01801	18	0.8	36	9	5.3 x 6 x 3.2
RL-01802	18	1.5	43	12	5.3 x 6 x 3.5
RL-01803	18	2.5	43	16	6.1 x 8.1 x 4
RL-02501	25	0.5	48	11	5.8 x 7.2 x 3.5
RL-02502	25	1.2	52	14	5.8 x 7.2 x 3.5
RL-02503	25	1.8	61	20	5.8 x 7.2 x 4.3
RL-03501	35	0.4	49	14	5.8 x 7.2 x 4
RL-03502	35	0.8	54	16	5.8 x 7.2 x 4
RL-03503	35	1.2	54	30	7.4 x 9 x 4.7
RL-04501	45	0.3	54	23	7.4 x 9 x 4.7
RL-04502	45	0.7	62	28	7.4 x 9 x 4.7
RL-04503	45	1.2	65	39	7.3 x 9 x 5.3
RL-05501	55	0.25	64	24	7.3 x 9 x 5.3
RL-05502	55	0.5	67	27	7 x 9 x 5.3
RL-05503	55	0.85	71	41	7 x 9 x 6
RL-08001	80	0.2	82	25	7.2 x 9 x 6.3
RL-08002	80	0.4	86	33	7.2 x 9 x 6.5
RL-08003	80	0.7	96	61	8.5 x 10.8 x 6.8
RL-10001	100	0.15	94	29	7.3 x 9 x 6.5
RL-10002	100	0.3	84	37	7.3 x 9 x 6.8
RL-10003	100	0.45	108	74	8.25 x 10.8 x 6.16
RL-13001	130	0.1	108	29	7 x 9 x 4.66
RL-13002	130	0.2	180	43	7.2 x 9 x 6.8
RL-13003	130	0.3	128	64	8.5 x 11 x 6.16

Open					
Open Part Number	Amps Rating	Inductance mh	Watts Loss	Open Weight (lbs)	Size (In) (H x W x D)
RL-16001	160	0.075	116	41	7.2 x 9 x 6.8
RL-16002	160	0.15	149	51	8.3 x 10.8 x 6
RL-16003	160	0.23	138	72	8.5 x 11.5 x 9
RL-20001B14	200	0.055	124	38	7.5 x 9 x 7.3
RL-20002B14	200	0.11	168	54	7.5 x 9 x 8.3
RL-20003B14	200	0.185	146	100	8.3 x 10.8 x 10
RL-25001B14	250	0.045	154	47	7.5 x 9 x 9
RL-25002B14	250	0.09	231	80	8.5 x 10.8 x 9
RL-25003B14	250	0.15	219	125	11.2 x 14.4 x 10.3
RL-32001B14	320	0.04	224	80	9 x 10.8 x 8.3
RL-32002B14	320	0.075	264	102	9 x 10.8 x 10
RL-32003B14	320	0.125	351	160	11.25 x 14.4 x 10.5
RL-40001B14	400	0.03	231	84	10 x 10.8 x 10
RL-40002B14	400	0.06	333	118	11.25 x 15 x 11.5
RL-40003B14	400	0.105	293	149	11.25 x 14.4 x 12.5
RL-50001B14	500	0.025	266	93	9 x 10.8 x 10.5
RL-50002	500	0.05	340	118	11.5 x 14.4 x 11.5
RL-50003	500	0.085	422	210	11.5 x 14.4 x 13.3
RL-60001	600	0.02	307	120	11.5 x 14.4 x 10
RL-60002	600	0.04	414	175	11.25 x 14.4 x 12
RL-60003	600	0.065	406	270	11.25 x 14.4 x 15
RL-75001	750	0.015	427	140	11.5 x 14.4 x 11
RL-75002	750	0.029	630	190	11.5 x 14.4 x 12.5
RL-75003	750	0.048	552	265	14.5 x 14.4 x 14
RL-85001B14	850	0.015	798	195	15.5 x 17.8 x 14.5
RL-85002B14	850	0.027	930	215	15.5 x 17.8 x 15.5
RL-85003B14	850	0.042	1133	315	15.5 x 17.8 x 17.5
RL-90001B14	900	0.013	860	200	16.8 x 17.8 x 13
RL-90002B14	900	0.025	1020	215	15.5 x 17.8 x 15.5
RL-90003B14	900	0.04	1365	315	15.8 x 17.8 x 17.1
RL-100001B14	1000	0.011	940	144	14.5 x 17.8 x 12.7
RL-100002B14	1000	0.022	1090	215	15.5 x 17.8 x 15.5
RL-100003B14	1000	0.038	1500	315	15.8 x 17.8 x 17.5
RL-120001B14	1200	0.009	980	195	15.5 x 17.8 x 14.5
RL-120002B14	1200	0.019	1130	275	15.5 x 17.8 x 17.8
RL-120003B14	1200	0.03	1550	390	15.4 x 17.4 x 18.3
RL-140001	1400	0.008	1235	500	17 x 22 x 22
RL-140002	1400	0.016	1523	525	17 x 19 x 19
RL-140003	1400	0.027	1680	850	17 x 22 x 22
RL-150001	1500	0.008	1432	635	17 x 22 x 22
RL-150002	1500	0.015	1671	675	17 x 16.9 x 16
RL-150003	1500	0.025	1815	900	17 x 22 x 22