DC Link Chokes

Product Selector

- **Reduce AC input line harmonics**
- **Absorb voltage/current spikes**
- **Reduce AC ripple on DC bus**
- **Solve nuisance over-voltage tripping**
- **Reduce DC Bus transient over-voltage**

Economical. Versatile.

Our DC Link Chokes are an economical means of filtering the DC bus voltage in variable frequency drives (VFDs). Designed to be added to a VFD's internal bridge and bus, they help reduce AC input line current harmonic distortion while absorbing DC bus voltage spikes. They can be used individually, typically on the positive DC bus, or in pairs with one each on both the positive and negative bus.

Take advantage of maximizing the circuit inductance for power quality reasons without causing an AC input line voltage drop with DC Link Chokes from MTE.

MTE
POWER QUALITY. SOLVED.

An economical and versatile solution to solving power quality problems.

DC Link Chokes

The ability of our DC Link Chokes to be used across multiple applications is just one reason these chokes stand above the rest. With factory capabilities to customize mounting, inductance, current or ripple requirements, our DC Link Chokes will meet all of your needs.

Solid copper box lug type available on most sizes.

Specially constructed and epoxy impregnated for low noise.

Series A link chokes are also available in NEMA 1-2 or NEMA 3R enclosures upon request.

Performance Specifications

Component Recognized	**UL-508 (File #E180243)**
Maximum Voltage	**1000V DC**
Ripple Frequency	**300 Hz or 360 Hz**
Ambient Temperature	**40°C**
Ripple Current	**10% peak-to-peak**
Insulation System	**Class B (130C)**

Final product specifications subject to change at any time.

Useful Applications

- **AC PWM inverters/drives**
- **Variable frequency motor drives**
- **DC to AC inverters**
- **Electrical vehicle inverters**

Understanding the DC Link Choke Series A Part Number:

DC A _ _ _ _ X X

DC Link Choke

Series A

Current Rating
0004 is 4 Amps
0050 is 50 Amps
0200 is 200 Amps

Mechanical Configurations
0 = Open Magnetics (No Enclosure)
1 = General Purpose (NEMA 1/2)
3 = Weather (NEMA 3R)

Reactor Relative Impedance No.
1, 2, 3, 4 (1 is lowest value)

Understanding the DC Link Choke Series RB Part Number:

_ _ _ _ RB 00 X

Current Rating
4 is 4 Amps
50 is 50 Amps
200 is 200 Amps

Series RB

Reactor Relative Impedance No.
1, 2, 3, 4 (1 is lowest value)

1000V 360Hz

DC Amps	Inductance mH	MTE Part Number	Ref Fig
1	35.00	1RB001	1
1	60.00	1RB002	1
1	80.00	1RB003	1
2	10.00	2RB001	1
2	15.00	2RB002	1
2	20.00	2RB003	1
2	50.00	DCA000204	1
4	5.00	4RB001	1
4	12.00	DCA000402	1
4	15.00	DCA000403	1
4	25.00	DCA000404	2
9	2.00	9RB001	1
9	3.22	DCA000902	1
9	7.50	DCA000903	2
9	11.50	DCA000904	2
12	1.00	DCA001201	1
12	2.10	DCA001202	2
12	4.00	DCA001203	2
12	6.00	DCA001204	2
18	0.65	DCA001801	1
18	1.375	DCA001802	2
18	2.75	DCA001803	2
18	3.75	DCA001804	2
18	6.00	DCA001805	2
25	0.45	25RB001	1
25	1.00	25RB002	2
25	1.275	DCA002504	2
25	1.75	DCA002503	2
25	4.00	DCA002505	2
32	0.85	DCA003201	2
32	1.62	DCA003202	2
32	2.68	DCA003203	2
40	0.50	DCA004001	2
40	0.75	DCA004002	2
40	1.00	DCA004003	2
40	2.50	DCA004004	2
50	0.625	DCA005001	2
50	0.97	50RB002	2
50	1.35	DCA005003	2
50	2.0	DCA005004	3
62	0.35	DCA006201	3
62	0.61	DCA006202	3
62	0.67	62RB003	3
62	1.20	62RB004	3
62	1.50	62RB005	3
80	0.31	80RB001	3
80	0.40	DCA008002	3
80	0.50	80RB003	3
80	0.75	80RB004	3
80	1.25	DCA008005	3
92	0.20	DCA009201	3
92	0.60	DCA009202	3
92	1.00	DCA009203	3
110	0.25	110RB001	3
110	0.30	DCA011002	3
110	0.45	DCA011003	3
125	0.11	125RB001	3
125	0.22	DCA012502	3
125	0.50	125RB003	3
125	0.85	125RB004	3
150	0.15	150RB001	3
150	0.22	DCA015002	3
150	0.32	150RB003	3
150	0.65	DCA015004	3
200	0.12	200RB001	3
200	0.21	DCA020002	3
200	0.40	200RB003	3
200	0.50	200RB004	3
240	0.09	240RB001	3
240	0.25	240RB002	3
240	0.35	240RB003	3
300	0.08	300RB001	3
300	0.135	300RB002	3
300	0.32	300RB003	3
450	0.055	450RB001	4
450	0.11	450RB002	4
450	0.14	450RB003	4
450	0.25	450RB004	4
500	0.043	500RB001	4
500	0.09	500RB002	4
500	0.14	500RB003	4
500	0.19	500RB004	4
600	0.04	600RB001	4
600	0.11	600RB002	4
600	0.18	600RB003	4
700	0.044	700RB001	4
700	0.06	700RB002	4
700	0.15	700RB003	4
850	0.036	850RB001	4
850	0.065	850RB002	4
850	0.11	850RB003	4
1000	0.02	1000RB001	4
1000	0.042	1000RB002	4
1000	0.10	1000RB003	4

OPEN MAGNETICS

FIGURE 1

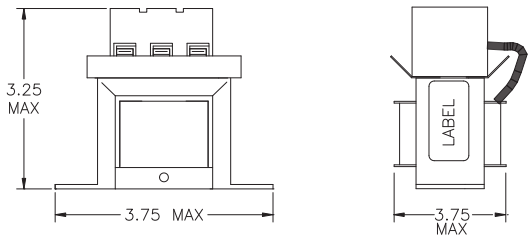


FIGURE 2

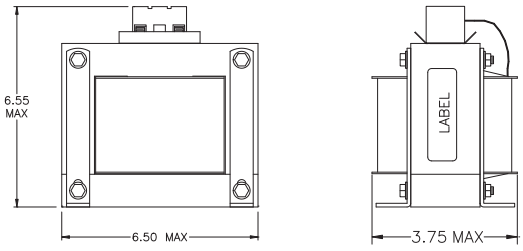


FIGURE 3

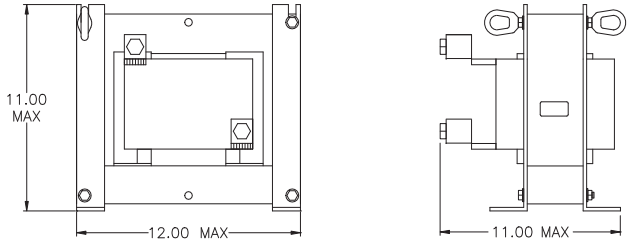
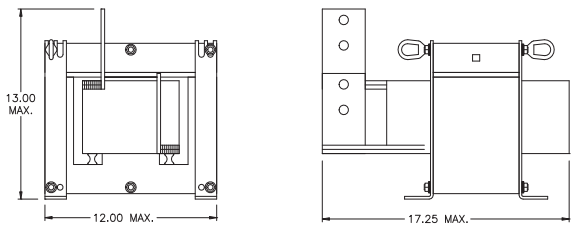


FIGURE 4



Note: Figure illustrations are for reference only. Actual hardware may differ. Please visit **mtecorp.com** for detailed information.