

Motor reactor **MDB**



General Data

Rated voltage 3 x 400 Vac
Rated current 6.3 - 176 A
For motor rated output 2.2 - 90 kW
For clock frequencies of 2 to 6 kHz
Rated frequency from 0 to 120 Hz
Insulation class F
Maximum ambient temperature 40 °C
Degree of protection IP 00

Advantages

High damping of edge steepness
High damping of inverter switchinh/clock frequency
Reduction of leakage current
Long shielded cable lengths possible
High efficiency
Very good corrosion protection and low noise thanks to BLOCKIMPEX vacuum impregnation

Standards

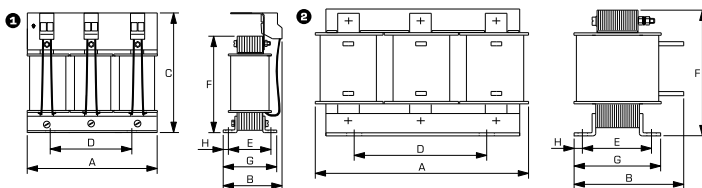
Output reactor for frequency converter
DIN EN 61558-2-20, IEC 61558-2-20



Motor reactor MDB

Type		MDB 400/6,3	MDB 400/9,4	MDB 400/13	MDB 400/16	MDB 400/24	MDB 400/30
Electrical data	Operating data						
	Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Voltage range	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac
	Rated current	6.30 A	9.40 A	13.00 A	16.00 A	24.00 A	30.00 A
	for motor rated output approx.	2.20 kW	4.00 kW	5.50 kW	7.50 kW	11.00 kW	15.00 kW
	Inductivity	2.000 mH	0.900 mH	0.900 mH	0.900 mH	0.450 mH	0.450 mH
	Rated frequency	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz
	Switching frequency	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz
	Environment						
	Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection							
Type	open type	open type	open type	open type	open type	open type	
Class of Insulation System	F	F	F	F	F	F	
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00	
Safety class (prepared)	I	I	I	I	I	I	
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	
Order numbers							
Order Number	MDB 400/6,3	MDB 400/9,4	MDB 400/13	MDB 400/16	MDB 400/24	MDB 400/30	
Mechanical data	Terminal and mounting						
	Fixing method	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets
	Fixing screws	M5	M5	M5	M6	M6	M6
	Connections phase/N	Screw clamp, 2,5 mm ²	Screw clamp, 2,5 mm ²	Screw clamp, 4 mm ²	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Flat copper
	Connections PE	Bolt, M4	Bolt, M4	Bolt, M4	Bolt, M4	Bolt, M4	Bolt, M6
	Measures and weights						
	Weight	4.50 kg	4.50 kg	5.50 kg	10.00 kg	10.00 kg	11.20 kg
	Dimension picture (in mm)	①	①	①	①	①	②
	A	155	155	155	190	190	210
	B	70	70	85	115	115	130
C	160	160	160	193	193	-	
D	130	130	130	170	170	175	
E	55	55	70	75	75	95	
F	128	128	128	155	155	182	
G	75	75	90	100	100	115	
H	10	10	10	12.5	12.5	10	

Dimension pictures



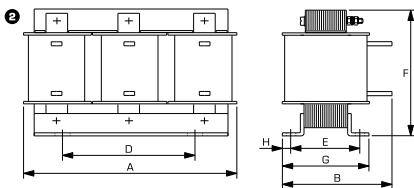
MOTOR-SIDE PSUPPRESSION/ MOTOR REACTORS



Motor reactor MDB

		MDB 400/39	MDB 400/46	MDB 400/61	MDB 400/72	MDB 400/91	MDB 400/110	
Electrical data	Type							
	<u>Operating data</u>							
	Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	
	Voltage range	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	0 - 3 x 500 Vac	
	Rated current	39.00 A	46.00 A	61.00 A	72.00 A	91.00 A	110.00 A	
	for motor rated output approx.	18.50 kW	22.00 kW	30.00 kW	37.00 kW	45.00 kW	55.00 kW	
	Inductivity	0.300 mH	0.150 mH	0.100 mH	0.050 mH	0.050 mH	0.050 mH	
	Rated frequency	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	0 - 120 Hz	
	Switching frequency	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	2 - 6 kHz	
	<u>Environment</u>							
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C		
<u>Safety and protection</u>								
Type	open type	open type	open type	open type	open type	open type		
Class of Insulation System	F	F	F	F	F	F		
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00		
Safety class (prepared)	I	I	I	I	I	I		
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz		
<u>Order numbers</u>								
Order Number	MDB 400/39	MDB 400/46	MDB 400/61	MDB 400/72	MDB 400/91	MDB 400/110		
Mechanical data	<u>Terminal and mounting</u>							
	Fixing method	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	Mounting brackets	
	Fixing screws	M6	M6	M6	M6	M6	M8	
	Connections phase/N	Flat copper	Flat copper	Flat copper	Flat copper	Flat copper	Flat copper	
	Connections PE	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M8	
	<u>Measures and weights</u>							
	Weight	11.30 kg	10.30 kg	10.30 kg	10.30 kg	10.30 kg	20.00 kg	
	Dimension picture (in mm)	e	e	e	e	e	e	
	A	210	210	210	210	210	240	
	B	130	120	120	120	120	131	
C	-	-	-	-	-	-		
D	175	175	175	175	175	190		
E	95	85	85	85	85	95		
F	182	182	182	182	182	205		
G	115	105	105	105	105	121		
H	10	10	10	10	10	13		

Dimension pictures





Motor reactor **MDB**

		MDB 400/150	MDB 400/176	
Electrical data	Type	MDB 400/150	MDB 400/176	
	Operating data			
	Rated voltage	3 x 400 Vac	3 x 400 Vac	
	Voltage range	0 - 3 x 500 Vac	0 - 3 x 500 Vac	
	Rated current	150.00 A	176.00 A	
	for motor rated output approx.	75.00 kW	90.00 kW	
	Inductivity	0.050 mH	0.050 mH	
	Rated frequency	0 - 120 Hz	0 - 120 Hz	
	Switching frequency	2 - 6 kHz	2 - 6 kHz	
	Environment			
	Ambient temperature max.	40 °C	40 °C	
	Safety and protection			
	Type	open type	open type	
	Class of Insulation System	F	F	
	Protection index	IP 00	IP 00	
Safety class (prepared)	I	I		
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz		
Order numbers				
Order Number	MDB 400/150	MDB 400/176		
Mechanical data	Terminal and mounting			
	Fixing method	Mounting brackets	Mounting brackets	
	Fixing screws	M8	M8	
	Connections phase/N	Flat copper	Flat copper	
	Connections PE	Bolt, M8	Bolt, M8	
	Measures and weights			
	Weight	24.30 kg	27.50 kg	
	Dimension picture (in mm)	e	e	
	A	240	240	
	B	141	165	
C	-	-		
D	190	190		
E	105	129		
F	205	205		
G	131	155		
H	13	13		

Dimension pictures

