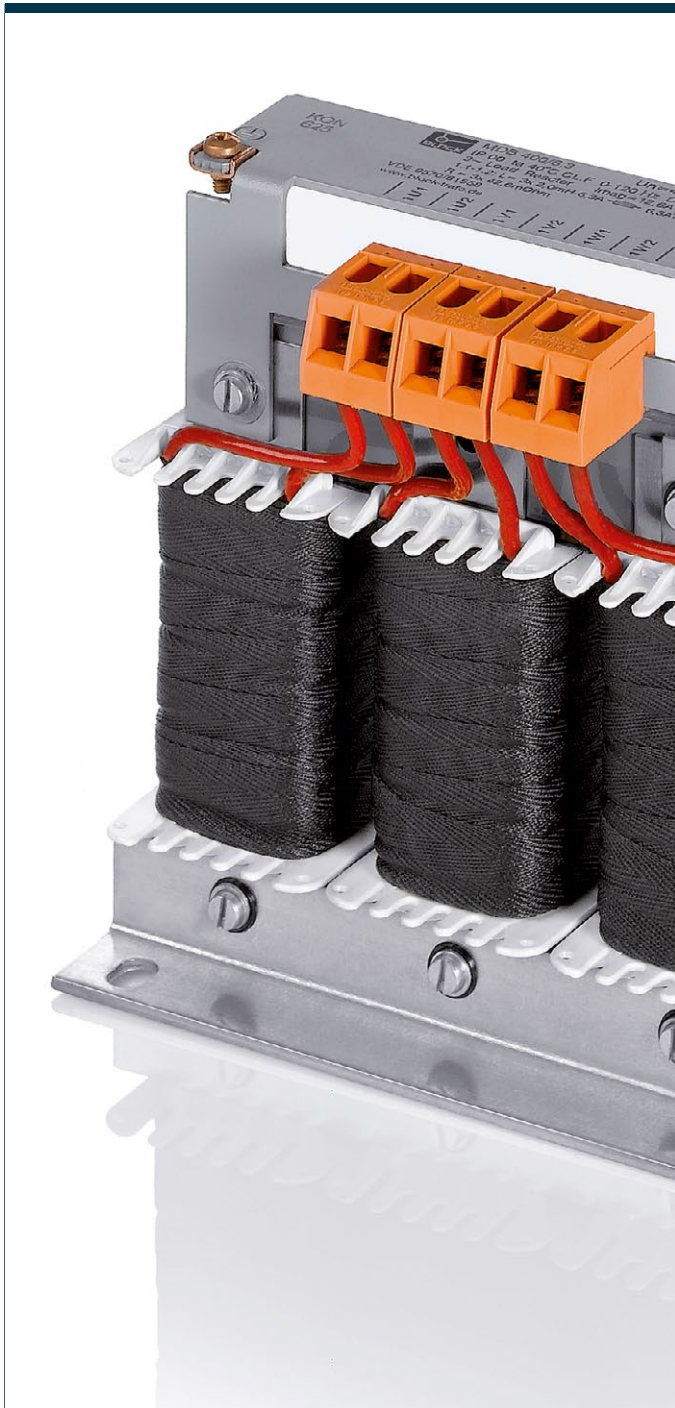


Motor reactor MDB



General Data

Rated voltage 3 x 400 Vac
Rated current 6.3 - 176 A
For motor rated output 2.2 - 90 kW
For switching 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

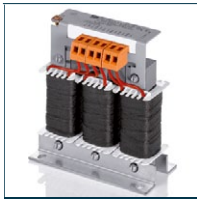
High damping of edge steepness
High damping of inverter switching frequency
Reduction of leakage current
Long shielded cable lengths possible
High efficiency
Very good corrosion protection and low noise thanks to vacuum impregnation

Standards

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

Approvals



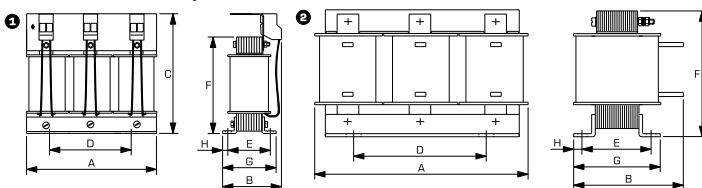


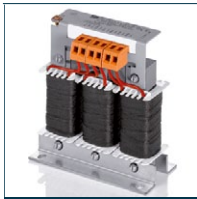
Motor reactor MDB



		MDB 400/6,3	MDB 400/9,4	MDB 400/13	MDB 400/16	MDB 400/24	MDB 400/30	
Electrical data	Typ							
	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	
	Inductance	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		
Insulation class	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							
	Terminals phase	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	
	Terminals PE	Bolt, M4	Bolt, M4	Bolt, M4	Bolt, M4	Bolt, M4	Bolt, M6	
	Fixing method	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail	
	Fixing screws	M5	M5	M5	M6	M6	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



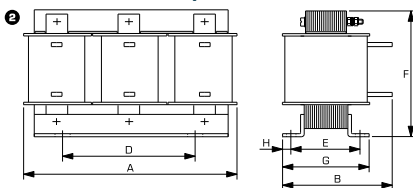


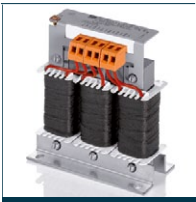
Motor reactor MDB



Typ		MDB 400/39	MDB 400/46	MDB 400/61	MDB 400/72	MDB 400/91	MDB 400/110	
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	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	
	Inductance	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	
	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	Open type	
Insulation class	F	F	F	F	F	F	F	
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00	
Safety class (prepared)	I	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	2500 Vac, 50 Hz	
Order numbers								
Order Number	MDB 400/39	MDB 400/46	MDB 400/61	MDB 400/72	MDB 400/91	MDB 400/110		
Mechanical data	Terminal and mounting							
	Terminals phase	Flat copper	Flat copper	Flat copper	Flat copper	Flat copper	Flat copper	
	Terminals PE	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M8	
	Fixing method	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail	Fixing rail	
	Fixing screws	M6	M6	M6	M6	M6	M8	
	Measures and weights							
	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



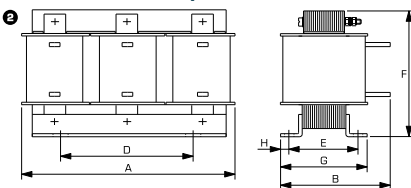


Motor reactor MDB



		MDB 400/150	MDB 400/176	
Electrical data	Typ	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	
	Inductance	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		
Insulation class	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			
	Terminals phase	Flat copper	Flat copper	
	Terminals PE	Bolt, M8	Bolt, M8	
	Fixing method	Fixing rail	Fixing rail	
	Fixing screws	M8	M8	
	Measures and weights			
	Weight	24.30 kg	27.50 kg	
	Dimension picture (in mm)			
	A	240	240	
	B	141	165	
C	-	-		
D	190	190		
E	105	129		
F	205	205		
G	131	155		
H	13	13		

Dimension pictures



1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2