

25.2 3/V - 3/A GEARMOTOR RATING CHARTS

Reading the rating chart.

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$P_1 = 0.12 \text{ kW}$

n_2 min ⁻¹	M_{n2} Nm	f_s	i	P_t kW					R_{n2} [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.58	1180	1.5	2337	–	3/V 01 L3	–	BN 63A 4	–	12000	12500	31000	34000	8000	258
0.72	940	0.9	1869	–	3/V 00 L3	–	BN 63A 4	–	12000	12500	31000	34000	8000	248
0.72	940	1.8	1869	–	3/V 01 L3	–	BN 63A 4	–	12000	12500	31000	34000	8000	258
0.90	800	1.1	1495	–	3/V 00 L3	–	BN 63A 4	–	12000	12200	30700	34000	7990	248
0.90	800	2.1	1495	–	3/V 01 L3	–	BN 63A 4	–	12000	12200	30700	34000	7990	258

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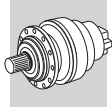
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11

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12

A

<p>1 Power applied at gearbox input shaft</p> <hr/> <p>2 Gearbox output speed</p> <hr/> <p>Torque delivered at output shaft:</p> <p>3</p> <ul style="list-style-type: none"> - specified service factor - 10000 h theoretical lifetime <hr/> <p>4 Service factor</p> <hr/> <p>5 Gear ratio</p> <hr/> <p>6 Gearbox thermal capacity</p> <hr/> <p>7 Model and frame size of combined planetary + worm gear unit</p> <hr/> <p>8 Model and frame size of combined planetary + helical bevel gear unit</p> <hr/>	<p>9 IEC motor size and pole number</p> <hr/> <p>10 Compact motor size and pole number</p> <hr/> <p>Permitted overhung loading on output shaft, based on:</p> <p>11</p> <ul style="list-style-type: none"> - service factor $f_s=1$ - 10000 h theoretical lifetime - speed of output n_2 <p>For forces not applied at shaft midpoint, see diagrams provided in the specific gearbox overall dimensioning pages</p> <hr/> <p>12 Dimensions page. Gearmotor overall dimensions refer to matches with BONFIGLIOLI motors only</p> <hr/>
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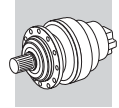


P₁ = 0.12 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
0.58	1180	1.5	2337	-	3/V 01 L3	-	BN 63A 4	-	12000	12500	31000	34000	8000	258
0.72	940	0.9	1869	-	3/V 00 L3	-	BN 63A 4	-	12000	12500	31000	34000	8000	248
0.72	940	1.8	1869	-	3/V 01 L3	-	BN 63A 4	-	12000	12500	31000	34000	8000	258
0.90	800	1.1	1495	-	3/V 00 L3	-	BN 63A 4	-	12000	12200	30700	34000	7990	248
0.90	800	2.1	1495	-	3/V 01 L3	-	BN 63A 4	-	12000	12200	30700	34000	7990	258
0.98	700	1.8	1381	-	3/V 00 L3	-	BN 63A 4	-	11800	11800	29900	34000	7780	248
0.98	700	2.7	1381	-	3/V 01 L3	-	BN 63A 4	-	11800	11800	29900	34000	7780	258
1.1	640	1.3	1198	-	3/V 00 L3	-	BN 63A 4	-	11300	11300	28700	33000	7420	248
1.1	640	2.6	1198	-	3/V 01 L3	-	BN 63A 4	-	11300	11300	28700	33000	7420	258
1.2	560	2.1	1107	-	3/V 00 L3	-	BN 63A 4	-	11000	11000	28000	32200	7230	248
1.4	600	1.3	997	-	3/V 00 L3	-	BN 63A 4	-	10600	10600	27100	31200	6980	248
1.4	600	2.7	997	-	3/V 01 L3	-	BN 63A 4	-	10600	10600	27100	31200	6980	258
1.5	455	1.7	903	-	3/V 00 L3	-	BN 63A 4	-	10300	10300	26400	30300	6760	248
1.5	455	2.7	903	-	3/V 01 L3	-	BN 63A 4	-	10300	10300	26400	30300	6760	258
1.7	410	2.7	818	-	3/V 00 L3	-	BN 63A 4	-	9940	9940	25600	29400	6540	248
2.0	390	2.8	689	-	3/V 00 L3	-	BN 63A 4	-	9390	9390	24300	27900	6170	248
2.0	520	2.2	665	-	-	3/A 01 L2	BN 63A 4	-	9280	9280	24000	27600	6100	259
2.0	510	1.2	660	-	-	3/A 00 L2	BN 63A 4	-	9250	9250	24000	27500	6080	249
2.4	320	2.3	562	-	3/V 00 L3	-	BN 63A 4	-	8770	8770	22900	26300	5770	248
2.5	425	1.4	550	-	-	3/A 00 L2	BN 63A 4	-	8710	8710	22700	26100	5730	249
2.5	415	2.7	533	-	-	3/A 01 L2	BN 63A 4	-	8620	8620	22500	25800	5660	259
3.1	340	2.0	441	-	-	3/A 00 L2	BN 63A 4	-	8090	8090	21200	24400	5320	249
3.4	305	2.7	393	-	-	3/A 01 L2	BN 63A 4	-	7790	7790	20500	23600	5120	259
3.5	305	1.8	391	-	-	3/A 00 L2	BN 63A 4	-	7770	7770	20500	23500	5110	249
3.7	285	2.0	369	-	-	3/A 00 L2	BN 63A 4	-	7630	7630	20100	23100	5010	249
4.2	245	1.8	319	-	-	3/A 00 L2	BN 63A 4	-	7260	7260	19300	22100	4770	249
4.6	230	2.8	296	-	-	3/A 00 L2	BN 63A 4	-	7080	7080	18900	21700	4660	249
5.3	195	2.8	253	-	-	3/A 00 L2	BN 63A 4	-	6720	6720	18000	20700	4420	249

P₁ = 0.18 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
0.56	1800	1.0	2337	-	3/V 01 L3	-	BN 63B 4	-	12000	12500	31000	34000	8000	258
0.71	1440	1.2	1869	-	3/V 01 L3	-	BN 63B 4	-	12000	12500	31000	34000	8000	258
0.88	1230	1.4	1495	-	3/V 01 L3	-	BN 63B 4	-	12000	12200	30700	34000	7990	258
0.96	1060	1.2	1381	-	3/V 00 L3	-	BN 63B 4	-	11800	11800	29900	34000	7780	248
0.96	1060	1.8	1381	-	3/V 01 L3	-	BN 63B 4	-	11800	11800	29900	34000	7780	258
1.1	980	1.7	1198	-	3/V 01 L3	-	BN 63B 4	-	11300	11300	28700	33000	7420	258
1.2	850	1.4	1107	-	3/V 00 L3	-	BN 63B 4	-	11000	11000	28000	32200	7230	248
1.2	910	2.2	1105	-	3/V 01 L3	-	BN 63B 4	-	11000	11000	28000	32200	7230	258
1.3	910	1.7	997	-	3/V 01 L3	-	BN 63B 4	-	10600	10600	27100	31200	6980	258
1.5	700	1.1	903	-	3/V 00 L3	-	BN 63B 4	-	10300	10300	26400	30300	6760	248
1.5	700	1.8	903	-	3/V 01 L3	-	BN 63B 4	-	10300	10300	26400	30300	6760	258
1.6	630	1.8	818	-	3/V 00 L3	-	BN 63B 4	-	9940	9940	25600	29400	6540	248
1.7	730	2.1	799	-	3/V 01 L3	-	BN 63B 4	-	9860	9860	25400	29200	6480	258
1.8	870	2.1	731	-	-	3/A 03 L2	BN 63B 4	-	29400	34000	50500	60700	18900	269
1.9	600	1.8	689	-	3/V 00 L3	-	BN 63B 4	-	9390	9390	24300	27900	6170	248
1.9	600	2.9	689	-	3/V 01 L3	-	BN 63B 4	-	9390	9390	24300	27900	6170	258
2.0	790	1.5	665	-	-	3/A 01 L2	BN 63B 4	-	9280	9280	24000	27600	6100	259
2.0	540	2.0	654	-	3/V 00 L3	-	BN 63B 4	-	9230	9230	23900	27500	6070	248
2.0	540	2.2	654	-	3/V 01 L3	-	BN 63B 4	-	9230	9230	23900	27500	6070	258
2.2	720	2.5	605	-	-	3/A 03 L2	BN 63B 4	-	27600	31900	47700	57400	17700	269
2.3	680	2.6	574	-	-	3/A 03 L2	BN 63B 4	-	27200	31400	46900	56500	17400	269
2.3	490	1.5	562	-	3/V 00 L3	-	BN 63B 4	-	8770	8770	22900	26300	5770	248
2.3	490	2.9	562	-	3/V 01 L3	-	BN 63B 4	-	8770	8770	22900	26300	5770	258
2.4	650	0.9	550	-	-	3/A 00 L2	BN 63B 4	-	8710	8710	22700	26100	5730	249
2.5	630	1.8	533	-	-	3/A 01 L2	BN 63B 4	-	8620	8620	22500	25800	5660	259
2.6	440	2.4	509	-	3/V 00 L3	-	BN 63B 4	-	8490	8490	22200	25500	5580	248
2.6	440	2.9	509	-	3/V 01 L3	-	BN 63B 4	-	8490	8490	22200	25500	5580	258
2.7	590	2.9	495	-	-	3/A 03 L2	BN 63B 4	-	25900	29800	44900	54000	16600	269
2.9	540	2.1	454	-	-	3/A 01 L2	BN 63B 4	-	8170	8170	21400	24600	5370	259



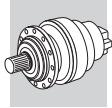
P₁ = 0.18 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
3.0	520	1.3	441	-	-	3/A 00 L2	BN 63B 4	-	8090	8090	21200	24400	5320	249
3.0	355	2.0	436	-	3/V 00 L3	-	BN 63B 4	-	8060	8060	21200	24300	5300	248
3.2	360	2.8	415	-	3/V 00 L3	-	BN 63B 4	-	7930	7930	20900	24000	5210	248
3.4	465	1.8	393	-	-	3/A 01 L2	BN 63B 4	-	7790	7790	20500	23600	5120	259
3.4	465	1.2	391	-	-	3/A 00 L2	BN 63B 4	-	7770	7770	20500	23500	5110	249
3.6	440	1.3	369	-	-	3/A 00 L2	BN 63B 4	-	7630	7630	20100	23100	5010	249
4.1	380	1.2	319	-	-	3/A 00 L2	BN 63B 4	-	7260	7260	19300	22100	4770	249
4.5	350	1.9	296	-	-	3/A 00 L2	BN 63B 4	-	7080	7080	18900	21700	4660	249
5.2	300	1.8	253	-	-	3/A 00 L2	BN 63B 4	-	6720	6720	18000	20700	4420	249
6.0	260	2.4	219	-	-	3/A 00 L2	BN 63B 4	-	6400	6400	17200	19800	4210	249
6.5	240	2.7	203	-	-	3/A 00 L2	BN 63B 4	-	6240	6240	16800	19300	4100	249
7.7	205	2.7	171	-	-	3/A 00 L2	BN 63B 4	-	5900	5900	16000	18400	3880	249

P₁ = 0.25 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
0.90	1680	1.0	1495	-	3/V 01 L3	-	BN 63C 4	-	12000	12200	30700	34000	7990	258
0.97	1460	1.3	1381	-	3/V 01 L3	-	BN 63C 4	-	11800	11800	29900	34000	7780	258
1.1	1340	1.2	1198	-	3/V 01 L3	-	BN 63C 4	-	11300	11300	28700	33000	7420	258
1.2	1170	1.0	1107	-	3/V 00 L3	-	BN 63C 4	-	11000	11000	28000	32200	7230	248
1.2	1240	1.6	1105	-	3/V 01 L3	-	BN 63C 4	-	11000	11000	28000	32200	7230	258
1.3	1250	1.3	997	-	3/V 01 L3	-	BN 63C 4	-	10600	10600	27100	31200	6980	258
1.5	950	1.3	903	-	3/V 01 L3	-	BN 63C 4	-	10300	10300	26400	30300	6760	258
1.6	860	1.3	818	-	3/V 00 L3	-	BN 63C 4	-	9940	9940	25600	29400	6540	248
1.7	1000	1.5	799	-	3/V 01 L3	-	BN 63C 4	-	9860	9860	25400	29200	6480	258
1.8	1190	1.5	731	-	-	3/A 03 L2	BN 63C 4	-	29400	34000	50500	60700	18900	269
1.9	820	1.3	689	-	3/V 00 L3	-	BN 63C 4	-	9390	9390	24300	27900	6170	248
1.9	820	2.1	689	-	3/V 01 L3	-	BN 63C 4	-	9390	9390	24300	27900	6170	258
2.0	1080	1.1	665	-	-	3/A 01 L2	BN 63C 4	-	9280	9280	24000	27600	6100	259
2.0	730	1.5	654	-	3/V 00 L3	-	BN 63C 4	-	9230	9230	23900	27500	6070	248
2.0	730	1.6	654	-	3/V 01 L3	-	BN 63C 4	-	9230	9230	23900	27500	6070	258
2.2	980	1.8	605	-	-	3/A 03 L2	BN 63C 4	-	27600	31900	47700	57400	17700	269
2.3	930	1.9	574	-	-	3/A 03 L2	BN 63C 4	-	27200	31400	46900	56500	17400	269
2.4	670	1.1	562	-	3/V 00 L3	-	BN 63C 4	-	8770	8770	22900	26300	5770	248
2.4	670	2.1	562	-	3/V 01 L3	-	BN 63C 4	-	8770	8770	22900	26300	5770	258
2.5	860	1.3	533	-	-	3/A 01 L2	BN 63C 4	-	8620	8620	22500	25800	5660	259
2.6	840	3.0	520	-	-	3/A 04 L2	BN 63C 4	-	26300	30300	45600	54800	16900	281
2.6	610	1.7	509	-	3/V 00 L3	-	BN 63C 4	-	8490	8490	22200	25500	5580	248
2.6	610	2.1	509	-	3/V 01 L3	-	BN 63C 4	-	8490	8490	22200	25500	5580	258
2.7	800	2.1	495	-	-	3/A 03 L2	BN 63C 4	-	25900	29800	44900	54000	16600	269
2.9	740	1.6	454	-	-	3/A 01 L2	BN 63C 4	-	8170	8170	21400	24600	5370	259
3.0	580	2.4	443	-	3/V 01 L3	-	BN 63C 4	-	8100	8100	21300	24400	5330	258
3.0	720	1.0	441	-	-	3/A 00 L2	BN 63C 4	-	8090	8090	21200	24400	5320	249
3.1	490	1.5	436	-	3/V 00 L3	-	BN 63C 4	-	8060	8060	21200	24300	5300	248
3.2	495	2.0	415	-	3/V 00 L3	-	BN 63C 4	-	7930	7930	20900	24000	5210	248
3.3	660	2.9	409	-	-	3/A 03 L2	BN 63C 4	-	24300	28000	42400	51000	15600	269
3.4	640	1.3	393	-	-	3/A 01 L2	BN 63C 4	-	7790	7790	20500	23600	5120	259
3.6	600	0.9	369	-	-	3/A 00 L2	BN 63C 4	-	7630	7630	20100	23100	5010	249
3.7	590	2.3	364	-	-	3/A 01 L2	BN 63C 4	-	7590	7590	20100	23000	4990	259
4.3	500	2.3	311	-	-	3/A 01 L2	BN 63C 4	-	7200	7200	19100	22000	4740	259
4.5	480	1.4	296	-	-	3/A 00 L2	BN 63C 4	-	7080	7080	18900	21700	4660	249
5.0	435	2.3	269	-	-	3/A 01 L2	BN 63C 4	-	6860	6860	18300	21000	4510	259
5.3	415	2.8	255	-	-	3/A 01 L2	BN 63C 4	-	6740	6740	18000	20700	4430	259
5.3	410	1.3	253	-	-	3/A 00 L2	BN 63C 4	-	6720	6720	18000	20700	4420	249
6.1	355	2.3	220	-	-	3/A 01 L2	BN 63C 4	-	6410	6410	17200	19800	4220	259
6.1	355	1.7	219	-	-	3/A 00 L2	BN 63C 4	-	6400	6400	17200	19800	4210	249
6.6	330	2.0	203	-	-	3/A 00 L2	BN 63C 4	-	6240	6240	16800	19300	4100	249
7.8	280	2.0	171	-	-	3/A 00 L2	BN 63C 4	-	5900	5900	16000	18400	3880	249
10.0	215	2.5	134	-	-	3/A 00 L2	BN 63C 4	-	5440	5440	14900	17100	3580	249

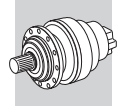




P₁ = 0.37 kW

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n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.53	4620	1.5	2588	-	3/V 06 L3	-	BN 71B 4	M 1SD 4	45000	51000	101000	119000	35000	304
0.61	3930	1.1	2232	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	36000	42000	64000	74000	24000	292
0.64	3820	2.2	2139	-	3/V 06 L3	-	BN 71B 4	M 1SD 4	45000	51000	101000	119000	35000	304
0.77	3150	1.5	1786	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	36000	42000	64000	74000	24000	292
0.77	3160	2.7	1768	-	3/V 06 L3	-	BN 71B 4	M 1SD 4	45000	51000	101000	119000	35000	304
0.79	2830	1.0	1728	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	36000	42000	64000	74000	24000	268
0.82	3150	1.4	1674	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	36000	42000	64000	74000	24000	292
0.85	2640	0.9	1610	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	36000	42000	64000	74000	24000	268
0.89	2710	1.4	1536	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	36000	42000	63100	74000	24000	280
0.96	2520	1.8	1431	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	36000	42000	61700	74000	23600	292
0.97	2670	1.1	1419	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	36000	42000	61600	74000	23600	280
0.99	2270	1.2	1385	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	36000	42000	61100	73600	23400	268
1.1	2170	1.7	1231	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	35000	40400	59000	71000	22500	280
1.1	2170	2.5	1231	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	35000	40400	59000	71000	22500	292
1.2	1950	1.2	1189	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	34600	40000	58400	70300	22200	268
1.2	2170	1.6	1152	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	34300	39600	57900	69600	22000	280
1.2	2180	2.0	1116	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	33900	39100	57300	69000	21700	292
1.2	1810	1.1	1105	-	3/V 01 L3	-	BN 71B 4	-	11000	11000	28000	32200	7230	258
1.3	1860	2.4	1057	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	33300	38400	56400	67800	21400	292
1.3	1680	1.6	1023	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	32900	38000	55800	67200	21100	268
1.4	1730	2.2	981	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	32500	37500	55100	66300	20800	280
1.5	1670	1.6	923	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	31800	36700	54100	65100	20400	268
1.5	1750	2.5	894	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	31500	36300	53600	64500	20200	292
1.5	1840	1.5	887	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	31400	36300	53500	64400	20100	280
1.7	1470	1.1	799	-	3/V 01 L3	-	BN 71B 4	-	9860	9860	25400	29200	6480	258
1.7	1440	1.5	793	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	30200	34900	51700	62200	19400	268
1.7	1490	2.8	793	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	30200	34900	51700	62200	19400	292
1.8	1510	2.2	769	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	29900	34600	51300	61700	19200	280
1.9	1330	2.0	736	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	29500	34100	50600	60800	18900	268
1.9	1730	1.0	731	-	-	3/A 03 L2	BN 71B 4	-	29400	34000	50500	60700	18900	269
1.9	1450	2.8	715	-	3/V 05 L3	-	BN 71B 4	M 1SD 4	29200	33700	50200	60300	18800	292
1.9	1480	1.8	710	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	29200	33700	50000	60200	18700	280
2.0	1200	0.9	689	-	3/V 00 L3	-	BN 71B 4	-	9390	9390	24300	27900	6170	248
2.0	1200	1.4	689	-	3/V 01 L3	-	BN 71B 4	-	9390	9390	24300	27900	6170	258
2.1	1070	1.0	654	-	3/V 00 L3	-	BN 71B 4	-	9230	9230	23900	27500	6070	248
2.1	1070	1.1	654	-	3/V 01 L3	-	BN 71B 4	-	9230	9230	23900	27500	6070	258
2.2	1130	2.0	623	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	27900	32200	48100	57900	17900	268
2.3	1430	1.3	605	-	-	3/A 03 L2	BN 71B 4	-	27600	31900	47700	57400	17700	269
2.3	1410	2.3	594	-	-	3/A 05 L2	BN 71B 4	M 1SD 4	27500	31700	47400	57100	17600	293
2.4	1360	1.3	574	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	27200	31400	46900	56500	17400	269
2.4	1110	2.8	568	-	3/V 04 L3	-	BN 71B 4	M 1SD 4	27100	31300	46800	56300	17400	280
2.4	980	1.4	562	-	3/V 01 L3	-	BN 71B 4	-	8770	8770	22900	26300	5770	258
2.5	980	2.8	544	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	26700	30800	46200	55600	17100	268
2.6	1230	2.0	520	-	-	3/A 04 L2	BN 71B 4	M 1SD 4	26300	30300	45600	54800	16900	281
2.7	880	1.2	509	-	3/V 00 L3	-	BN 71B 4	-	8490	8490	22200	25500	5580	248
2.7	880	1.4	509	-	3/V 01 L3	-	BN 71B 4	-	8490	8490	22200	25500	5580	258
2.7	1000	2.0	502	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	26000	30000	45100	54300	16700	268
2.8	1170	1.5	495	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	25900	29800	44900	54000	16600	269
2.9	1110	2.3	469	-	-	3/A 04 L2	BN 71B 4	M 1SD 4	25400	29300	44200	53100	16300	281
3.0	830	2.8	460	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	25200	29100	43900	52900	16200	268
3.0	1080	1.1	454	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	8170	8170	21400	24600	5370	259
3.1	840	1.6	443	-	3/V 01 L3	-	BN 71B 4	-	8100	8100	21300	24400	5330	258
3.1	710	1.0	436	-	3/V 00 L3	-	BN 71B 4	-	8060	8060	21200	24300	5300	248
3.2	850	2.2	430	-	3/V 01 L3	-	BN 71B 4	-	8020	8020	21100	24200	5270	258
3.3	720	1.4	415	-	3/V 00 L3	-	BN 71B 4	-	7930	7930	20900	24000	5210	248
3.3	970	2.0	409	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	24300	28000	42400	51000	15600	269
3.5	780	2.8	395	-	3/V 03 L3	-	BN 71B 4	M 1SD 4	24000	27700	42000	50500	15400	268
3.5	920	2.7	386	-	-	3/A 04 L2	BN 71B 4	M 1SD 4	23800	27500	41700	50200	15300	281
3.8	860	1.6	364	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	7590	7590	20100	23000	4990	259
3.9	830	2.4	352	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	23100	26600	40500	48800	14800	269
3.9	830	2.9	349	-	-	3/A 04 L2	BN 71B 4	M 1SD 4	23000	26600	40400	48600	14800	281
4.2	770	2.2	326	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	22500	26000	39600	47600	14400	269
4.4	740	1.6	311	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	7200	7200	19100	22000	4740	259
4.6	700	0.9	296	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	7080	7080	18900	21700	4660	249
5.1	640	2.9	269	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	21100	24400	37400	45000	13500	269



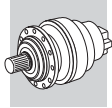
P₁ = 0.37 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
5.1	640	2.9	269	-	-	3/A 03 L2	BN 71B 4	M 1SD 4	21100	24400	37400	45000	13500	269
5.1	640	1.6	269	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	6860	6860	18300	21000	4510	259
5.4	600	1.9	255	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	6740	6740	18000	20700	4430	259
5.4	600	0.9	253	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	6720	6720	18000	20700	4420	249
6.2	520	1.6	220	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	6410	6410	17200	19800	4220	259
6.3	520	1.2	219	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	6400	6400	17200	19800	4210	249
6.7	485	2.7	204	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	6260	6260	16900	19400	4120	259
6.8	480	1.4	203	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	6240	6240	16800	19300	4100	249
7.4	435	2.4	184	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	6050	6050	16400	18800	3980	259
8.0	405	1.4	171	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	5900	5900	16000	18400	3880	249
8.2	395	2.9	166	-	-	3/A 01 L2	BN 71B 4	M 1SD 4	5850	5850	15900	18200	3840	259
10.2	315	1.7	134	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	5440	5440	14900	17100	3580	249
12.8	255	2.6	107	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	5050	5050	13900	16000	3320	249
13.7	235	2.3	100	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	4940	4940	13600	15600	3240	249
15.5	210	2.6	88.6	-	-	3/A 00 L2	BN 71B 4	M 1SD 4	4740	4740	13100	15100	3120	249

P₁ = 0.55 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.27	12900	2.7	5081	-	3/V 10 L4	-	BN 80A 4	M 1LA 4	-	-	133000	166000	65000	340
0.27	12900	2.7	5081	-	3/V 10 L4	-	BN 80A 4	M 1LA 4	-	-	133000	166000	65000	340
0.30	11700	2.6	4637	-	3/V 10 L4	-	BN 80A 4	M 1LA 4	-	-	133000	166000	65000	340
0.30	11700	2.6	4637	-	3/V 10 L4	-	BN 80A 4	M 1LA 4	-	-	133000	166000	65000	340
0.34	11800	2.6	4036	-	3/V 10 L4	-	BN 80A 4	M 1LA 4	-	-	133000	166000	65000	340
0.34	11800	2.6	4036	-	3/V 10 L4	-	BN 80A 4	M 1LA 4	-	-	133000	166000	65000	340
0.54	6750	1.0	2588	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	45000	51000	101000	119000	35000	304
0.56	6190	1.8	2472	-	3/V 07 L3	-	BN 80A 4	-	52000	65000	109000	145000	45000	316
0.65	5690	1.9	2150	-	3/V 07 L3	-	BN 80A 4	-	52000	65000	109000	145000	45000	316
0.65	5580	1.5	2139	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	45000	51000	101000	119000	35000	304
0.71	4910	2.5	1964	-	3/V 07 L3	-	BN 80A 4	-	52000	65000	109000	145000	45000	316
0.78	4600	1.0	1786	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	36000	42000	64000	74000	24000	292
0.79	4620	1.9	1768	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	45000	51000	101000	119000	35000	304
0.83	4610	1.0	1674	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	36000	42000	64000	74000	24000	292
0.90	4200	2.6	1545	-	3/V 07 L3	-	BN 80A 4	-	52000	65000	109000	145000	45000	316
0.90	3950	0.9	1536	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	36000	42000	63100	74000	24000	280
0.97	3680	1.3	1431	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	36000	42000	61700	74000	23600	292
1.0	3790	2.2	1395	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	45000	51000	100200	116700	34200	304
1.1	3170	1.1	1231	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	35000	40400	59000	71000	22500	280
1.1	3170	1.7	1231	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	35000	40400	59000	71000	22500	292
1.1	3160	2.5	1212	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	43400	49200	96100	111900	32600	304
1.2	3130	2.6	1153	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	42700	48400	94700	110200	32100	304
1.2	3170	1.1	1152	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	34300	39600	57900	69600	22000	280
1.2	3190	1.4	1116	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	33900	39100	57300	69000	21700	292
1.3	2720	1.6	1057	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	33300	38400	56400	67800	21400	292
1.4	2450	1.1	1023	-	3/V 03 L3	-	BN 80A 4	M 1LA 4	32900	38000	55800	67200	21100	268
1.4	2520	1.5	981	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	32500	37500	55100	66300	20800	280
1.5	2790	2.8	930	-	3/V 06 L3	-	BN 80A 4	M 1LA 4	39700	45000	88800	103400	29800	304
1.5	2440	1.1	923	-	3/V 03 L3	-	BN 80A 4	M 1LA 4	31800	36700	54100	65100	20400	268
1.6	2560	1.7	894	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	31500	36300	53600	64500	20200	292
1.6	2700	1.0	887	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	31400	36300	53500	64400	20100	280
1.8	2100	1.0	793	-	3/V 03 L3	-	BN 80A 4	M 1LA 4	30200	34900	51700	62200	19400	268
1.8	2180	1.9	793	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	30200	34900	51700	62200	19400	292
1.8	2200	1.5	769	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	29900	34600	51300	61700	19200	280
1.9	1950	1.4	736	-	3/V 03 L3	-	BN 80A 4	M 1LA 4	29500	34100	50600	60800	18900	268
1.9	2120	1.9	715	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	29200	33700	50200	60300	18800	292
2.0	2160	1.2	710	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	29200	33700	50000	60200	18700	280
2.0	1750	1.0	689	-	3/V 01 L3	-	BN 80A 4	-	9390	9390	24300	27900	6170	258
2.1	2250	2.7	671	-	-	3/A 06 L2	BN 80A 4	M 1LA 4	35600	40400	80500	93700	26800	305
2.2	1720	2.1	623	-	3/V 04 L3	-	BN 80A 4	M 1LA 4	27900	32200	48100	57900	17900	280
2.2	1650	1.3	623	-	3/V 03 L3	-	BN 80A 4	M 1LA 4	27900	32200	48100	57900	17900	268
2.2	1720	2.6	623	-	3/V 05 L3	-	BN 80A 4	M 1LA 4	27900	32200	48100	57900	17900	292



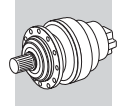


P₁ = 0.55 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]						
									MC/PC	MZ/PZ	HC	HZ	FZ		
2.3	2050	2.9	611	-	-	3/A 06 L2	BN 80A 4	M 1LA 4	34500	39100	78300	91100	25900	305	
2.3	2060	1.6	594	-	-	3/A 05 L2	BN 80A 4	M 1LA 4	27500	31700	47400	57100	17600	293	
2.4	1750	2.8	576	-	-	3/V 05 L3	BN 80A 4	M 1LA 4	27200	31400	47000	56500	17400	292	
2.4	1630	1.9	568	-	-	3/V 04 L3	BN 80A 4	M 1LA 4	27100	31300	46800	56300	17400	280	
2.5	1430	1.0	562	-	-	3/V 01 L3	BN 80A 4	-	8770	8770	22900	26300	5770	258	
2.6	1440	1.9	544	-	-	3/V 03 L3	BN 80A 4	M 1LA 4	26700	30800	46200	55600	17100	268	
2.6	1570	2.5	529	-	-	3/V 05 L3	BN 80A 4	M 1LA 4	26400	30500	45800	55100	17000	292	
2.7	1800	1.4	520	-	-	-	3/A 04 L2	BN 80A 4	M 1LA 4	26300	30300	45600	54800	16900	281
2.7	1290	1.0	509	-	-	3/V 01 L3	BN 80A 4	-	8490	8490	22200	25500	5580	258	
2.8	1450	1.4	502	-	-	3/V 03 L3	BN 80A 4	M 1LA 4	26000	30000	45100	54300	16700	268	
2.8	1290	2.3	501	-	-	3/V 04 L3	BN 80A 4	M 1LA 4	26000	30000	45100	54200	16700	280	
2.8	1720	1.0	495	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	25900	29800	44900	54000	16600	269
2.8	1700	2.3	491	-	-	-	3/A 05 L2	BN 80A 4	M 1LA 4	25800	29800	44800	53900	16500	293
3.0	1620	1.5	469	-	-	-	3/A 04 L2	BN 80A 4	M 1LA 4	25400	29300	44200	53100	16300	281
3.0	1220	1.9	460	-	-	3/V 03 L3	BN 80A 4	M 1LA 4	25200	29100	43900	52900	16200	268	
3.1	1300	2.9	453	-	-	3/V 04 L3	BN 80A 4	M 1LA 4	25100	29000	43700	52600	16100	280	
3.1	1230	1.1	443	-	-	3/V 01 L3	BN 80A 4	-	8100	8100	21300	24400	5330	258	
3.2	1240	1.5	430	-	-	3/V 01 L3	BN 80A 4	-	8020	8020	21100	24200	5270	258	
3.3	1050	0.9	415	-	-	3/V 00 L3	BN 80A 4	-	7930	7930	20900	24000	5210	248	
3.4	1420	1.4	409	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	24300	28000	42400	51000	15600	269
3.5	1380	2.3	398	-	-	-	3/A 05 L2	BN 80A 4	M 1LA 4	24000	27800	42100	50600	15400	293
3.5	1140	1.9	395	-	-	3/V 03 L3	BN 80A 4	M 1LA 4	24000	27700	42000	50500	15400	268	
3.6	1340	1.8	386	-	-	-	3/A 04 L2	BN 80A 4	M 1LA 4	23800	27500	41700	50200	15300	281
3.8	1260	1.1	364	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	7590	7590	20100	23000	4990	259
3.9	1220	1.7	352	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	23100	26600	40500	48800	14800	269
4.0	1210	2.0	349	-	-	-	3/A 04 L2	BN 80A 4	M 1LA 4	23000	26600	40400	48600	14800	281
4.3	1130	1.5	326	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	22500	26000	39600	47600	14400	269
4.4	1100	2.2	317	-	-	-	3/A 04 L2	BN 80A 4	M 1LA 4	22300	25700	39300	47300	14300	281
4.5	1080	1.1	311	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	7200	7200	19100	22000	4740	259
4.9	980	2.9	283	-	-	-	3/A 04 L2	BN 80A 4	M 1LA 4	21500	24800	38000	45700	13800	281
5.2	930	2.0	269	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	21100	24400	37400	45000	13500	269
5.2	930	2.0	269	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	21100	24400	37400	45000	13500	269
5.2	930	1.1	269	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	6860	6860	18300	21000	4510	259
5.5	880	1.3	255	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	6740	6740	18000	20700	4430	259
6.3	760	2.2	220	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	19700	22800	35200	42300	12700	269
6.3	760	1.1	220	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	6410	6410	17200	19800	4220	259
6.8	710	1.8	204	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	6260	6260	16900	19400	4120	259
6.9	700	0.9	203	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	6240	6240	16800	19300	4100	249
7.5	640	1.6	184	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	6050	6050	16400	18800	3980	259
7.7	630	2.9	182	-	-	-	3/A 03 L2	BN 80A 4	M 1LA 4	18500	21400	33200	40000	11900	269
8.1	590	0.9	171	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	5900	5900	16000	18400	3880	249
8.4	580	2.0	166	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	5850	5850	15900	18200	3840	259
10.4	465	1.2	134	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	5440	5440	14900	17100	3580	249
10.4	460	2.8	133	-	-	-	3/A 01 L2	BN 80A 4	M 1LA 4	5430	5430	14800	17100	3570	259
13.0	370	1.7	107	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	5050	5050	13900	16000	3320	249
13.9	345	1.6	100	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	4940	4940	13600	15600	3240	249
15.7	305	1.8	88.6	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	4740	4740	13100	15100	3120	249
17.3	280	2.3	80.2	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	4580	4580	12700	14600	3010	249
19.6	245	2.6	71.0	-	-	-	3/A 00 L2	BN 80A 4	M 1LA 4	4400	4400	12300	14100	2890	249

P₁ = 0.75 kW

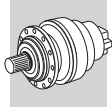
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	17300	2.0	5081	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.28	17300	2.0	5081	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.28	17800	2.7	5021	-	3/V 11 L4	-	BN 80B 4	-	-	-	157000	195000	65000	352
0.30	15800	1.9	4637	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.30	15800	1.9	4637	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.32	15800	2.9	4410	-	3/V 11 L4	-	BN 80B 4	-	-	-	157000	195000	65000	352
0.35	15800	1.9	4036	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.35	15800	1.9	4036	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340



P₁ = 0.75 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.39	12600	2.4	3570	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.39	12600	2.4	3570	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.43	12800	2.7	3273	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.43	12800	2.7	3273	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.49	11100	2.8	2835	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.49	11100	2.8	2835	-	3/V 10 L4	-	BN 80B 4	-	-	-	133000	166000	65000	340
0.57	8300	1.3	2472	-	3/V 07 L3	-	BN 80B 4	-	52000	65000	109000	145000	45000	316
0.65	7630	1.4	2150	-	3/V 07 L3	-	BN 80B 4	-	52000	65000	109000	145000	45000	316
0.65	7490	1.1	2139	-	3/V 06 L3	-	BN 80B 4	-	45000	51000	101000	119000	35000	304
0.71	6600	1.9	1964	-	3/V 07 L3	-	BN 80B 4	-	52000	65000	109000	145000	45000	316
0.79	6190	1.4	1768	-	3/V 06 L3	-	BN 80B 4	-	45000	51000	101000	119000	35000	304
0.91	5640	2.0	1545	-	3/V 07 L3	-	BN 80B 4	-	52000	65000	109000	145000	45000	316
0.98	4940	0.9	1431	-	3/V 05 L3	-	BN 80B 4	-	36000	42000	61700	74000	23600	292
0.99	5010	2.5	1411	-	3/V 07 L3	-	BN 80B 4	-	50700	63600	108200	141800	44100	316
1.0	5090	1.7	1395	-	3/V 06 L3	-	BN 80B 4	-	45000	51000	100200	116700	34200	304
1.1	4250	1.3	1231	-	3/V 05 L3	-	BN 80B 4	-	35000	40400	59000	71000	22500	292
1.2	4250	1.8	1212	-	3/V 06 L3	-	BN 80B 4	-	43400	49200	96100	111900	32600	304
1.2	4280	2.5	1159	-	3/V 07 L3	-	BN 80B 4	-	47500	59600	102000	133700	41300	316
1.2	4210	2.0	1153	-	3/V 06 L3	-	BN 80B 4	-	42700	48400	94700	110200	32100	304
1.3	4280	1.0	1116	-	3/V 05 L3	-	BN 80B 4	-	33900	39100	57300	69000	21700	292
1.3	3650	1.2	1057	-	3/V 05 L3	-	BN 80B 4	-	33300	38400	56400	67800	21400	292
1.4	3620	2.6	992	-	3/V 06 L3	-	BN 80B 4	-	40600	46000	90500	105400	30500	304
1.4	3390	1.1	981	-	3/V 04 L3	-	BN 80B 4	-	32500	37500	55100	66300	20800	280
1.5	3750	2.1	930	-	3/V 06 L3	-	BN 80B 4	-	39700	45000	88800	103400	29800	304
1.6	3430	1.2	894	-	3/V 05 L3	-	BN 80B 4	-	31500	36300	53600	64500	20200	292
1.8	2930	1.4	793	-	3/V 05 L3	-	BN 80B 4	-	30200	34900	51700	62200	19400	292
1.8	2880	2.7	791	-	3/V 06 L3	-	BN 80B 4	-	37600	42600	84500	98400	28300	304
1.8	2950	1.1	769	-	3/V 04 L3	-	BN 80B 4	-	29900	34600	51300	61700	19200	280
1.9	2610	1.0	736	-	3/V 03 L3	-	BN 80B 4	-	29500	34100	50600	60800	18900	268
2.0	2850	1.4	715	-	3/V 05 L3	-	BN 80B 4	-	29200	33700	50200	60300	18800	292
2.0	2890	0.9	710	-	3/V 04 L3	-	BN 80B 4	-	29200	33700	50000	60200	18700	280
2.0	2840	2.7	698	-	3/V 06 L3	-	BN 80B 4	-	36100	40900	81400	94800	27100	304
2.1	3020	2.0	671	-	-	3/A 06 L2	BN 80B 4	M 2SA 4	35600	40400	80500	93700	26800	305
2.2	2300	1.5	623	-	3/V 04 L3	-	BN 80B 4	-	27900	32200	48100	57900	17900	280
2.2	2210	1.0	623	-	3/V 03 L3	-	BN 80B 4	-	27900	32200	48100	57900	17900	268
2.2	2300	1.9	623	-	3/V 05 L3	-	BN 80B 4	-	27900	32200	48100	57900	17900	292
2.3	2750	2.2	611	-	-	3/A 06 L2	BN 80B 4	M 2SA 4	34500	39100	78300	91100	25900	305
2.4	2760	1.2	594	-	-	3/A 05 L2	BN 80B 4	M 2SA 4	27500	31700	47400	57100	17600	293
2.4	2350	2.1	576	-	3/V 05 L3	-	BN 80B 4	-	27200	31400	47000	56500	17400	292
2.5	2180	1.4	568	-	3/V 04 L3	-	BN 80B 4	-	27100	31300	46800	56300	17400	280
2.5	2500	2.9	555	-	-	3/A 06 L2	BN 80B 4	M 2SA 4	33400	37900	76000	88500	25100	305
2.6	1930	1.4	544	-	3/V 03 L3	-	BN 80B 4	-	26700	30800	46200	55600	17100	268
2.6	2110	1.9	529	-	3/V 05 L3	-	BN 80B 4	-	26400	30500	45800	55100	17000	292
2.7	2420	1.0	520	-	-	3/A 04 L2	BN 80B 4	M 2SA 4	26300	30300	45600	54800	16900	281
2.8	1950	1.0	502	-	3/V 03 L3	-	BN 80B 4	-	26000	30000	45100	54300	16700	268
2.8	1730	1.7	501	-	3/V 04 L3	-	BN 80B 4	-	26000	30000	45100	54200	16700	280
2.9	2280	1.7	491	-	-	3/A 05 L2	BN 80B 4	M 2SA 4	25800	29800	44800	53900	16500	293
3.0	2180	1.1	469	-	-	3/A 04 L2	BN 80B 4	M 2SA 4	25400	29300	44200	53100	16300	281
3.0	1880	2.6	462	-	3/V 05 L3	-	BN 80B 4	-	25300	29200	44000	52900	16200	292
3.0	1630	1.4	460	-	3/V 03 L3	-	BN 80B 4	-	25200	29100	43900	52900	16200	268
3.1	1740	2.1	453	-	3/V 04 L3	-	BN 80B 4	-	25100	29000	43700	52600	16100	280
3.3	1670	1.1	430	-	3/V 01 L3	-	BN 80B 4	-	8020	8020	21100	24200	5270	258
3.3	1960	2.2	422	-	-	3/A 05 L2	BN 80B 4	M 2SA 4	24500	28300	42800	51500	15700	293
3.4	1900	1.0	409	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	24300	28000	42400	51000	15600	269
3.5	1850	1.7	398	-	-	3/A 05 L2	BN 80B 4	M 2SA 4	24000	27800	42100	50600	15400	293
3.5	1620	2.3	396	-	3/V 05 L3	-	BN 80B 4	-	24000	27700	42000	50500	15400	292
3.5	1530	1.4	395	-	3/V 03 L3	-	BN 80B 4	-	24000	27700	42000	50500	15400	268
3.6	1800	1.4	386	-	-	3/A 04 L2	BN 80B 4	M 2SA 4	23800	27500	41700	50200	15300	281
3.6	1470	2.4	384	-	3/V 04 L3	-	BN 80B 4	-	23700	27400	41600	50100	15200	280
4.0	1640	1.2	352	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	23100	26600	40500	48800	14800	269
4.0	1620	1.5	349	-	-	3/A 04 L2	BN 80B 4	M 2SA 4	23000	26600	40400	48600	14800	281
4.3	1530	2.4	329	-	-	3/A 05 L2	BN 80B 4	M 2SA 4	22600	26100	39700	47800	14500	293
4.3	1510	1.1	326	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	22500	26000	39600	47600	14400	269
4.4	1480	1.6	317	-	-	3/A 04 L2	BN 80B 4	M 2SA 4	22300	25700	39300	47300	14300	281
4.9	1320	2.2	283	-	-	3/A 04 L2	BN 80B 4	M 2SA 4	21500	24800	38000	45700	13800	281



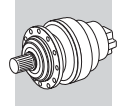


P₁ = 0.75 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
5.0	1300	2.8	280	-	-	3/A 05 L2	BN 80B 4	M 2SA 4	21400	24700	37800	45500	13700	293
5.2	1250	1.5	269	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	21100	24400	37400	45000	13500	269
5.2	1250	1.5	269	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	21100	24400	37400	45000	13500	269
5.5	1190	1.0	255	-	-	3/A 01 L2	BN 80B 4	M 2SA 4	6740	6740	18000	20700	4430	259
6.4	1020	1.6	220	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	19700	22800	35200	42300	12700	269
6.9	950	1.4	204	-	-	3/A 01 L2	BN 80B 4	M 2SA 4	6260	6260	16900	19400	4120	259
7.6	860	1.2	184	-	-	3/A 01 L2	BN 80B 4	M 2SA 4	6050	6050	16400	18800	3980	259
7.7	840	2.2	182	-	-	3/A 03 L2	BN 80B 4	M 2SA 4	18500	21400	33200	40000	11900	269
8.4	770	1.5	166	-	-	3/A 01 L2	BN 80B 4	M 2SA 4	5850	5850	15900	18200	3840	259
10.5	620	2.1	133	-	-	3/A 01 L2	BN 80B 4	M 2SA 4	5430	5430	14800	17100	3570	259
13.0	500	1.3	107	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	5050	5050	13900	16000	3320	249
13.8	470	2.4	102	-	-	3/A 01 L2	BN 80B 4	M 2SA 4	4960	4960	13700	15700	3260	259
14.0	465	1.2	100	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	4940	4940	13600	15600	3240	249
15.8	410	1.3	88.6	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	4740	4740	13100	15100	3120	249
17.5	375	1.7	80.2	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	4580	4580	12700	14600	3010	249
19.7	330	2.0	71.0	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	4400	4400	12300	14100	2890	249
22.9	285	2.3	61.2	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	4190	4190	11700	13500	2750	249
27.0	240	2.3	51.8	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	3960	3960	11200	12800	2610	249
35	185	3.0	39.6	-	-	3/A 00 L2	BN 80B 4	M 2SA 4	3620	3620	10300	11800	2380	249

P₁ = 1.1 kW

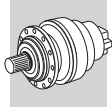
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	25400	1.3	5081	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.28	25400	1.3	5081	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.28	25600	2.1	5046	-	3/V 13 L4	-	BN 90S 4	-	-	-	192000	231000	80000	364
0.28	26100	1.8	5021	-	3/V 11 L4	-	BN 90S 4	-	-	-	157000	195000	65000	352
0.30	23200	1.3	4637	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.30	23200	1.3	4637	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.31	23900	2.4	4536	-	3/V 13 L4	-	BN 90S 4	-	-	-	192000	231000	80000	364
0.32	23200	1.9	4410	-	3/V 11 L4	-	BN 90S 4	-	-	-	157000	195000	65000	352
0.34	20800	2.3	4106	-	3/V 11 L4	-	BN 90S 4	-	-	-	157000	195000	65000	352
0.35	21300	2.6	4046	-	3/V 13 L4	-	BN 90S 4	-	-	-	192000	231000	80000	364
0.35	23200	1.3	4036	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.35	23200	1.3	4036	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.39	18600	1.6	3570	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.39	18600	1.6	3570	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.39	18000	2.3	3557	-	3/V 11 L4	-	BN 90S 4	-	-	-	157000	195000	65000	352
0.40	20200	2.9	3515	-	3/V 13 L4	-	BN 90S 4	-	-	-	192000	231000	80000	364
0.43	18800	1.8	3273	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.43	18800	1.8	3273	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.43	18800	3.0	3263	-	3/V 13 L4	-	BN 90S 4	-	-	-	192000	231000	80000	364
0.43	18500	2.5	3222	-	3/V 11 L4	-	BN 90S 4	-	-	-	157000	195000	65000	352
0.48	16400	2.9	2887	-	3/V 11 L4	-	BN 90S 4	-	-	-	157000	195000	65000	352
0.49	16300	1.9	2835	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.49	16300	1.9	2835	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.57	12200	0.9	2472	-	3/V 07 L3	-	BN 90S 4	-	52000	65000	109000	145000	45000	316
0.57	14300	2.4	2455	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.57	14300	2.4	2455	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.63	12700	2.5	2209	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.63	12700	2.5	2209	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.65	11200	1.0	2150	-	3/V 07 L3	-	BN 90S 4	-	52000	65000	109000	145000	45000	316
0.69	11600	2.5	2016	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.69	11600	2.5	2016	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.71	9700	1.3	1964	-	3/V 07 L3	-	BN 90S 4	-	52000	65000	109000	145000	45000	316
0.77	10500	2.5	1826	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.77	10500	2.5	1826	-	3/V 10 L4	-	BN 90S 4	-	-	-	133000	166000	65000	340
0.79	9110	0.9	1768	-	3/V 06 L3	-	BN 90S 4	-	45000	51000	101000	119000	35000	304
0.91	8290	1.3	1545	-	3/V 07 L3	-	BN 90S 4	-	52000	65000	109000	145000	45000	316
0.99	7370	1.7	1411	-	3/V 07 L3	-	BN 90S 4	-	50700	63600	108200	141800	44100	316
1.0	7480	1.1	1395	-	3/V 06 L3	-	BN 90S 4	-	45000	51000	100200	116700	34200	304



P₁ = 1.1 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
1.1	6730	2.2	1288	-	3/V 07 L3	-	BN 90S 4	-	49200	61700	105300	138000	42800	316
1.2	6240	1.3	1212	-	3/V 06 L3	-	BN 90S 4	-	43400	49200	96100	111900	32600	304
1.2	6300	1.7	1159	-	3/V 07 L3	-	BN 90S 4	-	47500	59600	102000	133700	41300	316
1.2	6180	1.3	1153	-	3/V 06 L3	-	BN 90S 4	-	42700	48400	94700	110200	32100	304
1.4	5440	2.6	1015	-	3/V 07 L3	-	BN 90S 4	-	45400	57000	98000	128400	39500	316
1.4	5320	1.8	992	-	3/V 06 L3	-	BN 90S 4	-	40600	46000	90500	105400	30500	304
1.5	5510	1.4	930	-	3/V 06 L3	-	BN 90S 4	-	39700	45000	88800	103400	29800	304
1.5	5000	2.5	920	-	3/V 07 L3	-	BN 90S 4	-	44000	55200	95200	124700	38200	316
1.8	4310	1.0	793	-	3/V 05 L3	-	BN 90S 4	-	30200	34900	51700	62200	19400	292
1.8	4240	1.8	791	-	3/V 06 L3	-	BN 90S 4	-	37600	42600	84500	98400	28300	304
1.8	4580	2.2	773	-	3/V 07 L3	-	BN 90S 4	-	41500	52100	90300	118400	36100	316
2.0	4190	1.0	715	-	3/V 05 L3	-	BN 90S 4	-	29200	33700	50200	60300	18800	292
2.0	4180	1.8	698	-	3/V 06 L3	-	BN 90S 4	-	36100	40900	81400	94800	27100	304
2.1	4440	1.4	671	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	35600	40400	80500	93700	26800	305
2.1	3920	2.4	661	-	3/V 06 L3	-	BN 90S 4	-	35500	40200	80100	93300	26600	304
2.2	3390	1.0	623	-	3/V 04 L3	-	BN 90S 4	-	27900	32200	48100	57900	17900	280
2.2	3390	1.3	623	-	3/V 05 L3	-	BN 90S 4	-	27900	32200	48100	57900	17900	292
2.3	4050	1.5	611	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	34500	39100	78300	91100	25900	305
2.4	3450	1.4	576	-	3/V 05 L3	-	BN 90S 4	-	27200	31400	47000	56500	17400	292
2.5	3370	2.5	569	-	3/V 06 L3	-	BN 90S 4	-	33700	38200	76600	89200	25300	304
2.5	3210	1.0	568	-	3/V 04 L3	-	BN 90S 4	-	27100	31300	46800	56300	17400	280
2.5	3670	2.0	555	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	33400	37900	76000	88500	25100	305
2.6	2840	1.0	544	-	3/V 03 L3	-	BN 90S 4	-	26700	30800	46200	55600	17100	268
2.6	3100	1.3	529	-	3/V 05 L3	-	BN 90S 4	-	26400	30500	45800	55100	17000	292
2.7	3120	2.4	527	-	3/V 06 L3	-	BN 90S 4	-	32900	37200	74900	87200	24700	304
2.8	3350	2.1	505	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	32400	36700	73900	86100	24400	305
2.8	2550	1.2	501	-	3/V 04 L3	-	BN 90S 4	-	26000	30000	45100	54200	16700	280
2.9	3360	1.2	491	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	25800	29800	44800	53900	16500	293
3.0	2770	1.7	462	-	3/V 05 L3	-	BN 90S 4	-	25300	29200	44000	52900	16200	292
3.0	2400	1.0	460	-	3/V 03 L3	-	BN 90S 4	-	25200	29100	43900	52900	16200	268
3.1	2560	1.5	453	-	3/V 04 L3	-	BN 90S 4	-	25100	29000	43700	52600	16100	280
3.2	2880	2.7	435	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	30800	34900	70600	82300	23200	305
3.3	2890	1.5	422	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	24500	28300	42800	51500	15700	293
3.5	2720	1.2	398	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	24000	27800	42100	50600	15400	293
3.5	2380	1.6	396	-	3/V 05 L3	-	BN 90S 4	-	24000	27700	42000	50500	15400	292
3.5	2260	1.0	395	-	3/V 03 L3	-	BN 90S 4	-	24000	27700	42000	50500	15400	268
3.6	2570	2.2	388	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	29700	33600	68300	79500	22300	305
3.6	2640	0.9	386	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	23800	27500	41700	50200	15300	281
3.6	2170	1.6	384	-	3/V 04 L3	-	BN 90S 4	-	23700	27400	41600	50100	15200	280
3.7	2520	2.5	380	-	-	3/A 06 L2	BN 90S 4	M 2SB 4	29500	33400	67900	79000	22200	305
4.0	2390	1.0	349	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	23000	26600	40400	48600	14800	281
4.3	2250	1.6	329	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	22600	26100	39700	47800	14500	293
4.4	2170	1.1	317	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	22300	25700	39300	47300	14300	281
4.9	1940	1.5	283	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	21500	24800	38000	45700	13800	281
5.0	1910	1.9	280	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	21400	24700	37800	45500	13700	293
5.2	1840	1.0	269	-	-	3/A 03 L2	BN 90S 4	M 2SB 4	21100	24400	37400	45000	13500	269
5.2	1840	1.0	269	-	-	3/A 03 L2	BN 90S 4	M 2SB 4	21100	24400	37400	45000	13500	269
5.6	1710	2.0	250	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	20600	23800	36600	44000	13200	281
5.8	1640	2.6	241	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	20300	23500	36200	43500	13000	293
6.2	1540	2.3	226	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	19900	23000	35500	42700	12800	281
6.4	1500	1.1	220	-	-	3/A 03 L2	BN 90S 4	M 2SB 4	19700	22800	35200	42300	12700	269
6.6	1450	2.1	212	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	19500	22500	34800	41900	12500	293
6.6	1450	2.1	212	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	19500	22500	34800	41900	12500	293
6.8	1400	2.5	205	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	19300	22300	34500	41500	12400	281
6.9	1400	0.9	204	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	6260	6260	16900	19400	4120	259
7.7	1240	1.5	182	-	-	3/A 03 L2	BN 90S 4	M 2SB 4	18500	21400	33200	40000	11900	269
8.1	1190	2.5	174	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	18200	21100	32800	39500	11700	281
8.4	1140	1.0	166	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	5850	5850	15900	18200	3840	259
8.6	1110	2.6	162	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	17800	20600	32100	38700	11400	281
8.6	1110	2.6	162	-	-	3/A 05 L2	BN 90S 4	M 2SB 4	17800	20600	32100	38700	11400	293
9.4	1020	2.3	149	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	17300	20000	31300	37700	11100	281
10.5	910	1.4	133	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	5430	5430	14800	17100	3570	259
12.0	800	3.0	117	-	-	3/A 04 L2	BN 90S 4	M 2SB 4	16000	18500	29100	35000	10300	281
13.8	690	1.7	102	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	4960	4960	13700	15700	3260	259
14.4	660	2.6	96.9	-	-	3/A 03 L2	BN 90S 4	M 2SB 4	15000	17300	27500	33100	9630	269

A

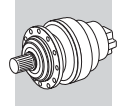


P₁ = 1.1 kW






n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
15.8	610	0.9	88.6	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	4740	4740	13100	15100	3120	249
15.8	610	2.7	88.5	-	-	3/A 03 L2	BN 90S 4	M 2SB 4	14600	16800	26800	32200	9340	269
17.2	560	2.3	81.3	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	4610	4610	12800	14700	3030	259
17.5	550	1.2	80.2	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	4580	4580	12700	14600	3010	249
18.9	510	2.3	74.2	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	4470	4470	12400	14300	2940	259
19.7	485	1.3	71.0	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	4400	4400	12300	14100	2890	249
22.9	420	1.6	61.2	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	4190	4190	11700	13500	2750	249
27.0	355	1.6	51.8	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	3960	3960	11200	12800	2610	249
28.5	335	2.5	49.1	-	-	3/A 01 L2	BN 90S 4	M 2SB 4	3890	3890	11000	12600	2560	259
34	285	2.3	41.5	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	3680	3680	10500	12000	2420	249
35	270	2.0	39.6	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	3620	3620	10300	11800	2380	249
44	215	3.0	31.7	-	-	3/A 00 L2	BN 90S 4	M 2SB 4	3370	3370	9650	11100	2210	249

P₁ = 1.5 kW

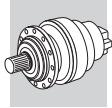
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
0.27	34900	1.0	5081	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.27	34900	1.0	5081	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.28	35100	1.5	5046	-	3/V 13 L4	-	BN 90LA 4	-	-	-	192000	231000	80000	364
0.28	35900	1.3	5021	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.30	31800	1.0	4637	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.30	31800	1.0	4637	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.31	32800	1.8	4536	-	3/V 13 L4	-	BN 90LA 4	-	-	-	192000	231000	80000	364
0.32	31900	1.4	4410	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.34	28600	1.7	4106	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.34	29300	1.9	4046	-	3/V 13 L4	-	BN 90LA 4	-	-	-	192000	231000	80000	364
0.34	31900	1.0	4036	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.34	31900	1.0	4036	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.39	25500	1.2	3570	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.39	25500	1.2	3570	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.39	24700	1.7	3557	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.40	27800	2.1	3515	-	3/V 13 L4	-	BN 90LA 4	-	-	-	192000	231000	80000	364
0.42	25800	1.3	3273	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.42	25800	1.3	3273	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.43	25800	2.2	3263	-	3/V 13 L4	-	BN 90LA 4	-	-	-	192000	231000	80000	364
0.43	25400	1.8	3222	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.48	22500	2.1	2887	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.49	22400	1.4	2835	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.49	22400	1.4	2835	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.50	20100	2.8	2773	-	3/V 13 L4	-	BN 90LA 4	-	-	-	192000	231000	80000	364
0.55	19800	2.4	2510	-	3/V 11 L4	-	BN 90LA 4	-	-	-	157000	195000	65000	352
0.57	19600	1.7	2455	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.57	19600	1.7	2455	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.63	17400	1.9	2209	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.63	17400	1.9	2209	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.69	15900	1.8	2016	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.69	15900	1.8	2016	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.71	13300	0.9	1964	-	3/V 07 L3	-	BN 90LA 4	-	52000	65000	109000	145000	45000	316
0.76	14400	1.9	1826	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.76	14400	1.9	1826	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.84	13200	2.5	1657	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.84	13200	2.5	1657	-	3/V 10 L4	-	BN 90LA 4	-	-	-	133000	166000	65000	340
0.90	11400	1.0	1545	-	3/V 07 L3	-	BN 90LA 4	-	52000	65000	109000	145000	45000	316
0.98	10100	1.2	1411	-	3/V 07 L3	-	BN 90LA 4	-	50700	63600	108200	141800	44100	316
1.1	9240	1.6	1288	-	3/V 07 L3	-	BN 90LA 4	-	49200	61700	105300	138000	42800	316
1.1	8580	0.9	1212	-	3/V 06 L3	-	BN 90LA 4	-	43400	49200	96100	111900	32600	304
1.2	8650	1.2	1159	-	3/V 07 L3	-	BN 90LA 4	-	47500	59600	102000	133700	41300	316
1.2	8490	1.0	1153	-	3/V 06 L3	-	BN 90LA 4	-	42700	48400	94700	110200	32100	304
1.4	7470	1.9	1015	-	3/V 07 L3	-	BN 90LA 4	-	45400	57000	98000	128400	39500	316
1.4	7310	1.3	992	-	3/V 06 L3	-	BN 90LA 4	-	40600	46000	90500	105400	30500	304
1.5	7570	1.0	930	-	3/V 06 L3	-	BN 90LA 4	-	39700	45000	88800	103400	29800	304



P₁ = 1.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]						
									MC/PC	MZ/PZ	HC	HZ	FZ		
1.5	6870	1.8	920	-	3/V 07 L3	-	BN 90LA 4	-	-	44000	55200	95200	124700	38200	316
1.8	5820	1.3	791	-	3/V 06 L3	-	BN 90LA 4	-	-	37600	42600	84500	98400	28300	304
1.8	6290	1.6	773	-	3/V 07 L3	-	BN 90LA 4	-	-	41500	52100	90300	118400	36100	316
1.8	5680	2.5	761	-	3/V 07 L3	-	BN 90LA 4	-	-	41300	51800	89900	117800	35900	316
2.0	5750	1.3	698	-	3/V 06 L3	-	BN 90LA 4	-	-	36100	40900	81400	94800	27100	304
2.1	6100	1.0	671	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	35600	40400	80500	93700	26800	305
2.1	5380	1.7	661	-	3/V 06 L3	-	BN 90LA 4	-	-	35500	40200	80100	93300	26600	304
2.1	4880	2.9	655	-	3/V 07 L3	-	BN 90LA 4	-	-	39300	49300	85900	112600	34100	316
2.2	4650	1.0	623	-	3/V 05 L3	-	BN 90LA 4	-	-	27900	32200	48100	57900	17900	292
2.3	5560	1.1	611	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	34500	39100	78300	91100	25900	305
2.4	4740	1.0	576	-	3/V 05 L3	-	BN 90LA 4	-	-	27200	31400	47000	56500	17400	292
2.4	4630	1.8	569	-	3/V 06 L3	-	BN 90LA 4	-	-	33700	38200	76600	89200	25300	304
2.5	5050	1.4	555	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	33400	37900	76000	88500	25100	305
2.6	4250	0.9	529	-	3/V 05 L3	-	BN 90LA 4	-	-	26400	30500	45800	55100	17000	292
2.6	4290	1.8	527	-	3/V 06 L3	-	BN 90LA 4	-	-	32900	37200	74900	87200	24700	304
2.8	4590	1.6	505	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	32400	36700	73900	86100	24400	305
3.0	3800	1.3	462	-	3/V 05 L3	-	BN 90LA 4	-	-	25300	29200	44000	52900	16200	292
3.1	3510	1.1	453	-	3/V 04 L3	-	BN 90LA 4	-	-	25100	29000	43700	52600	16100	280
3.2	3990	2.3	439	-	-	3/A 07 L2	BN 90LA 4	M 3SA 4	-	34400	43100	76200	99900	29900	317
3.2	3950	2.0	435	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	30800	34900	70600	82300	23200	305
3.3	3510	2.5	427	-	3/V 06 L3	-	BN 90LA 4	-	-	30600	34700	70300	81800	23000	304
3.3	3970	1.1	422	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	24500	28300	42800	51500	15700	293
3.4	3680	2.5	405	-	-	3/A 07 L2	BN 90LA 4	M 3SA 4	-	33500	42000	74400	97500	29100	317
3.5	3270	1.2	396	-	3/V 05 L3	-	BN 90LA 4	-	-	24000	27700	42000	50500	15400	292
3.5	3260	2.3	395	-	3/V 06 L3	-	BN 90LA 4	-	-	29900	33800	68700	80000	22400	304
3.6	3530	1.6	388	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	29700	33600	68300	79500	22300	305
3.6	3260	2.8	386	-	3/V 07 L3	-	BN 90LA 4	-	-	32900	41300	73400	96100	28600	316
3.6	2970	1.2	384	-	3/V 04 L3	-	BN 90LA 4	-	-	23700	27400	41600	50100	15200	280
3.7	3460	1.8	380	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	29500	33400	67900	79000	22200	305
4.2	3090	1.2	329	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	22600	26100	39700	47800	14500	293
4.3	2910	2.3	321	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	27900	31600	64500	75100	20900	305
4.9	2660	1.1	283	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	21500	24800	38000	45700	13800	281
5.0	2630	1.4	280	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	21400	24700	37800	45500	13700	293
5.2	2430	2.3	267	-	-	3/A 06 L2	BN 90LA 4	M 3SA 4	-	26200	29700	61000	71100	19700	305
5.6	2350	1.5	250	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	20600	23800	36600	44000	13200	281
5.8	2260	1.9	241	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	20300	23500	36200	43500	13000	293
6.2	2120	1.7	226	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	19900	23000	35500	42700	12800	281
6.5	1990	1.6	212	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	19500	22500	34800	41900	12500	293
6.5	1990	1.6	212	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	19500	22500	34800	41900	12500	293
6.8	1930	1.8	205	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	19300	22300	34500	41500	12400	281
7.7	1710	1.1	182	-	-	3/A 03 L2	BN 90LA 4	M 3SA 4	-	18500	21400	33200	40000	11900	269
7.9	1650	2.2	175	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	18300	21100	32900	39600	11700	293
8.0	1630	1.8	174	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	18200	21100	32800	39500	11700	281
8.6	1520	1.9	162	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	17800	20600	32100	38700	11400	281
8.6	1520	1.9	162	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	17800	20600	32100	38700	11400	293
9.3	1400	1.7	149	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	17300	20000	31300	37700	11100	281
9.9	1320	2.7	141	-	-	3/A 05 L2	BN 90LA 4	M 3SA 4	-	17000	19600	30800	37000	10900	293
10.4	1250	1.0	133	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	5430	5430	14800	17100	3570	259
10.8	1210	2.2	129	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	16500	19100	30000	36100	10600	281
11.9	1100	2.2	117	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	16000	18500	29100	35000	10300	281
13.6	960	2.7	102	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	15300	17600	27900	33600	9790	281
13.7	950	1.2	102	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	4960	4960	13700	15700	3260	259
14.3	910	1.9	96.9	-	-	3/A 03 L2	BN 90LA 4	M 3SA 4	-	15000	17300	27500	33100	9630	269
15.3	850	2.8	90.7	-	-	3/A 04 L2	BN 90LA 4	M 3SA 4	-	14700	17000	27000	32500	9420	281
15.7	830	2.0	88.5	-	-	3/A 03 L2	BN 90LA 4	M 3SA 4	-	14600	16800	26800	32200	9340	269
17.1	760	1.7	81.3	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	4610	4610	12800	14700	3030	259
18.7	700	1.7	74.2	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	4470	4470	12400	14300	2940	259
19.0	690	2.6	73.2	-	-	3/A 03 L2	BN 90LA 4	M 3SA 4	-	13700	15800	25300	30400	8770	269
19.6	670	1.0	71.0	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	-	4400	4400	12300	14100	2890	249
22.1	590	2.6	62.9	-	-	3/A 03 L2	BN 90LA 4	M 3SA 4	-	13000	15000	24200	29100	8340	269
22.7	570	1.1	61.2	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	-	4190	4190	11700	13500	2750	249
23.4	560	2.3	59.4	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	4150	4150	11600	13400	2730	259
25.6	510	2.3	54.2	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	4020	4020	11300	13000	2650	259
26.8	485	1.1	51.8	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	-	3960	3960	11200	12800	2610	249
28.3	460	1.8	49.1	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	-	3890	3890	11000	12600	2560	259



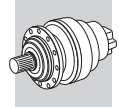


P₁ = 1.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
32	410	2.3	43.9	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	3750	3750	10600	12200	2470	259
33	390	1.7	41.5	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	3680	3680	10500	12000	2420	249
35	375	2.3	40.1	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	3640	3640	10300	11900	2390	259
35	370	1.5	39.6	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	3620	3620	10300	11800	2380	249
39	335	2.3	35.8	-	-	3/A 01 L2	BN 90LA 4	M 3SA 4	3500	3500	10000	11500	2300	259
44	300	2.2	31.7	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	3370	3370	9650	11100	2210	249
59	220	2.6	23.4	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	3040	3040	8810	10100	2000	249
73	180	2.6	19.1	-	-	3/A 00 L2	BN 90LA 4	M 3SA 4	2840	2840	8290	9530	1870	249

P₁ = 1.85 kW

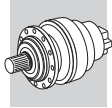
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	43300	1.2	5046	-	3/V 13 L4	-	BN 90LB 4	-	-	-	192000	231000	80000	364
0.28	44200	1.1	5021	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.31	40500	1.4	4536	-	3/V 13 L4	-	BN 90LB 4	-	-	-	192000	231000	80000	364
0.32	39400	1.1	4410	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.34	35200	1.4	4106	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.34	36100	1.5	4046	-	3/V 13 L4	-	BN 90LB 4	-	-	-	192000	231000	80000	364
0.39	31400	1.0	3570	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.39	31400	1.0	3570	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.39	30500	1.4	3557	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.40	34200	1.7	3515	-	3/V 13 L4	-	BN 90LB 4	-	-	-	192000	231000	80000	364
0.42	31900	1.1	3273	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.42	31900	1.1	3273	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.43	31800	1.7	3263	-	3/V 13 L4	-	BN 90LB 4	-	-	-	192000	231000	80000	364
0.43	31400	1.5	3222	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.48	27800	1.7	2887	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.49	27600	1.1	2835	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.49	27600	1.1	2835	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.50	24800	2.2	2773	-	3/V 13 L4	-	BN 90LB 4	-	-	-	192000	231000	80000	364
0.55	24400	2.0	2510	-	3/V 11 L4	-	BN 90LB 4	-	-	-	157000	195000	65000	352
0.57	24200	1.4	2455	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.57	24200	1.4	2455	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.63	21500	1.5	2209	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.63	21500	1.5	2209	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.69	19600	1.5	2016	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.69	19600	1.5	2016	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.76	17800	1.5	1826	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.76	17800	1.5	1826	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.84	16300	2.0	1657	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.84	16300	2.0	1657	-	3/V 10 L4	-	BN 90LB 4	-	-	-	133000	166000	65000	340
0.98	12500	1.0	1411	-	3/V 07 L3	-	BN 90LB 4	-	50700	63600	108200	141800	44100	316
1.1	11400	1.3	1288	-	3/V 07 L3	-	BN 90LB 4	-	49200	61700	105300	138000	42800	316
1.2	10700	1.0	1159	-	3/V 07 L3	-	BN 90LB 4	-	47500	59600	102000	133700	41300	316
1.4	9210	1.6	1015	-	3/V 07 L3	-	BN 90LB 4	-	45400	57000	98000	128400	39500	316
1.4	9010	1.0	992	-	3/V 06 L3	-	BN 90LB 4	-	40600	46000	90500	105400	30500	304
1.5	8470	1.5	920	-	3/V 07 L3	-	BN 90LB 4	-	44000	55200	95200	124700	38200	316
1.8	7180	1.1	791	-	3/V 06 L3	-	BN 90LB 4	-	37600	42600	84500	98400	28300	304
1.8	7760	1.3	773	-	3/V 07 L3	-	BN 90LB 4	-	41500	52100	90300	118400	36100	316
1.8	7000	2.0	761	-	3/V 07 L3	-	BN 90LB 4	-	41300	51800	89900	117800	35900	316
2.0	7080	1.1	698	-	3/V 06 L3	-	BN 90LB 4	-	36100	40900	81400	94800	27100	304
2.1	6640	1.4	661	-	3/V 06 L3	-	BN 90LB 4	-	35500	40200	80100	93300	26600	304
2.1	6020	2.4	655	-	3/V 07 L3	-	BN 90LB 4	-	39300	49300	85900	112600	34100	316
2.4	5710	1.5	569	-	3/V 06 L3	-	BN 90LB 4	-	33700	38200	76600	89200	25300	304
2.5	6220	1.2	555	-	-	3/A 06 L2	BN 90LB 4	-	33400	37900	76000	88500	25100	305
2.6	5290	1.4	527	-	3/V 06 L3	-	BN 90LB 4	-	32900	37200	74900	87200	24700	304
2.7	5090	2.7	507	-	3/V 07 L3	-	BN 90LB 4	-	36100	45300	79600	104300	31400	316
2.8	5660	1.3	505	-	-	3/A 06 L2	BN 90LB 4	-	32400	36700	73900	86100	24400	305
3.0	4690	1.0	462	-	3/V 05 L3	-	BN 90LB 4	-	25300	29200	44000	52900	16200	292
3.0	4620	2.7	460	-	3/V 07 L3	-	BN 90LB 4	-	34900	43800	77300	101300	30400	316
3.2	4920	1.9	439	-	-	3/A 07 L2	BN 90LB 4	-	34400	43100	76200	99900	29900	317



$P_1 = 1.85 \text{ kW}$

n_2 min ⁻¹	M_{n2} Nm	f_s	i	Pt kW					R_{n2} [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
3.2	4870	1.6	435	-	-	3/A 06 L2	BN 90LB 4	-	30800	34900	70600	82300	23200	305
3.3	4330	2.0	427	-	3/V 06 L3	-	BN 90LB 4	-	30600	34700	70300	81800	23000	304
3.4	4540	2.0	405	-	-	3/A 07 L2	BN 90LB 4	-	33500	42000	74400	97500	29100	317
3.5	4030	0.9	396	-	3/V 05 L3	-	BN 90LB 4	-	24000	27700	42000	50500	15400	292
3.5	4010	1.9	395	-	3/V 06 L3	-	BN 90LB 4	-	29900	33800	68700	80000	22400	304
3.6	4350	1.3	388	-	-	3/A 06 L2	BN 90LB 4	-	29700	33600	68300	79500	22300	305
3.6	4020	2.2	386	-	3/V 07 L3	-	BN 90LB 4	-	32900	41300	73400	96100	28600	316
3.6	3670	1.0	384	-	3/V 04 L3	-	BN 90LB 4	-	23700	27400	41600	50100	15200	280
3.7	4260	1.4	380	-	-	3/A 06 L2	BN 90LB 4	-	29500	33400	67900	79000	22200	305
4.2	3810	1.0	329	-	-	3/A 05 L2	BN 90LB 4	-	22600	26100	39700	47800	14500	293
4.3	3590	1.8	321	-	-	3/A 06 L2	BN 90LB 4	-	27900	31600	64500	75100	20900	305
4.9	3160	2.8	282	-	-	3/A 07 L2	BN 90LB 4	-	29600	37200	66700	87400	25800	317
5.0	3240	1.1	280	-	-	3/A 05 L2	BN 90LB 4	-	21400	24700	37800	45500	13700	293
5.0	3090	2.5	276	-	-	3/A 06 L2	BN 90LB 4	-	26500	30000	61600	71800	19900	305
5.2	2990	1.8	267	-	-	3/A 06 L2	BN 90LB 4	-	26200	29700	61000	71100	19700	305
5.6	2890	1.2	250	-	-	3/A 04 L2	BN 90LB 4	-	20600	23800	36600	44000	13200	281
5.8	2790	1.5	241	-	-	3/A 05 L2	BN 90LB 4	-	20300	23500	36200	43500	13000	293
6.2	2610	1.3	226	-	-	3/A 04 L2	BN 90LB 4	-	19900	23000	35500	42700	12800	281
6.3	2470	2.6	221	-	-	3/A 06 L2	BN 90LB 4	-	24600	27900	57700	67100	18500	305
6.5	2460	1.3	212	-	-	3/A 05 L2	BN 90LB 4	-	19500	22500	34800	41900	12500	293
6.5	2460	1.3	212	-	-	3/A 05 L2	BN 90LB 4	-	19500	22500	34800	41900	12500	293
6.8	2380	1.5	205	-	-	3/A 04 L2	BN 90LB 4	-	19300	22300	34500	41500	12400	281
7.0	2220	2.5	198	-	-	3/A 06 L2	BN 90LB 4	-	23700	26900	55800	65000	17800	305
7.9	2030	1.8	175	-	-	3/A 05 L2	BN 90LB 4	-	18300	21100	32900	39600	11700	293
8.0	2010	1.5	174	-	-	3/A 04 L2	BN 90LB 4	-	18200	21100	32800	39500	11700	281
8.6	1880	1.5	162	-	-	3/A 04 L2	BN 90LB 4	-	17800	20600	32100	38700	11400	281
8.6	1880	1.5	162	-	-	3/A 05 L2	BN 90LB 4	-	17800	20600	32100	38700	11400	293
9.3	1730	1.4	149	-	-	3/A 04 L2	BN 90LB 4	-	17300	20000	31300	37700	11100	281
9.9	1630	2.2	141	-	-	3/A 05 L2	BN 90LB 4	-	17000	19600	30800	37000	10900	293
10.8	1500	1.8	129	-	-	3/A 04 L2	BN 90LB 4	-	16500	19100	30000	36100	10600	281
11.5	1400	2.5	121	-	-	3/A 05 L2	BN 90LB 4	-	16200	18700	29400	35400	10400	293
11.9	1350	1.8	117	-	-	3/A 04 L2	BN 90LB 4	-	16000	18500	29100	35000	10300	281
13.4	1200	2.6	104	-	-	3/A 05 L2	BN 90LB 4	-	15300	17700	28100	33800	9840	293
13.6	1180	2.2	102	-	-	3/A 04 L2	BN 90LB 4	-	15300	17600	27900	33600	9790	281
13.7	1180	1.0	102	-	-	3/A 01 L2	BN 90LB 4	-	4960	4960	13700	15700	3260	259
14.3	1120	1.5	96.9	-	-	3/A 03 L2	BN 90LB 4	-	15000	17300	27500	33100	9630	269
15.3	1050	2.3	90.7	-	-	3/A 04 L2	BN 90LB 4	-	14700	17000	27000	32500	9420	281
15.7	1020	1.6	88.5	-	-	3/A 03 L2	BN 90LB 4	-	14600	16800	26800	32200	9340	269
17.0	950	2.5	81.7	-	-	3/A 04 L2	BN 90LB 4	-	14200	16400	26200	31500	9100	281
17.1	940	1.4	81.3	-	-	3/A 01 L2	BN 90LB 4	-	4610	4610	12800	14700	3030	259
18.7	860	1.3	74.2	-	-	3/A 01 L2	BN 90LB 4	-	4470	4470	12400	14300	2940	259
19.0	850	2.1	73.2	-	-	3/A 03 L2	BN 90LB 4	-	13700	15800	25300	30400	8770	269
22.1	730	2.1	62.9	-	-	3/A 03 L2	BN 90LB 4	-	13000	15000	24200	29100	8340	269
22.7	710	0.9	61.2	-	-	3/A 00 L2	BN 90LB 4	-	4190	4190	11700	13500	2750	249
23.4	690	1.8	59.4	-	-	3/A 01 L2	BN 90LB 4	-	4150	4150	11600	13400	2730	259
25.6	630	1.9	54.2	-	-	3/A 01 L2	BN 90LB 4	-	4020	4020	11300	13000	2650	259
26.5	610	2.7	52.5	-	-	3/A 03 L2	BN 90LB 4	-	12200	14100	22900	27600	7850	269
26.5	610	2.7	52.5	-	-	3/A 03 L2	BN 90LB 4	-	12200	14100	22900	27600	7850	269
26.8	600	0.9	51.8	-	-	3/A 00 L2	BN 90LB 4	-	3960	3960	11200	12800	2610	249
28.3	570	1.5	49.1	-	-	3/A 01 L2	BN 90LB 4	-	3890	3890	11000	12600	2560	259
32	510	1.8	43.9	-	-	3/A 01 L2	BN 90LB 4	-	3750	3750	10600	12200	2470	259
33	480	1.4	41.5	-	-	3/A 00 L2	BN 90LB 4	-	3680	3680	10500	12000	2420	249
35	465	1.9	40.1	-	-	3/A 01 L2	BN 90LB 4	-	3640	3640	10300	11900	2390	259
35	460	1.2	39.6	-	-	3/A 00 L2	BN 90LB 4	-	3620	3620	10300	11800	2380	249
39	415	1.8	35.8	-	-	3/A 01 L2	BN 90LB 4	-	3500	3500	10000	11500	2300	259
44	365	1.8	31.7	-	-	3/A 00 L2	BN 90LB 4	-	3370	3370	9650	11100	2210	249
59	270	2.1	23.4	-	-	3/A 00 L2	BN 90LB 4	-	3040	3040	8810	10100	2000	249
73	220	2.1	19.1	-	-	3/A 00 L2	BN 90LB 4	-	2840	2840	8290	9530	1870	249

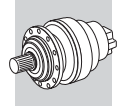
A



P₁ = 2.2 kW

A

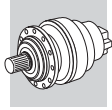
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.27	56900	1.7	5234	-	3/V 15 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	388
0.28	50800	1.0	5046	-	3/V 13 L4	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.28	51900	0.9	5021	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.28	51900	1.6	4959	-	3/V 14 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	376
0.28	53800	1.9	4950	-	3/V 15 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	388
0.28	53800	2.3	4950	-	3/V 16 L4	-	BN 100LA 4	-	-	-	345000	385000	150000	400
0.31	47500	1.2	4536	-	3/V 13 L4	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.32	46200	1.0	4410	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.33	45100	1.8	4312	-	3/V 14 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	376
0.34	45400	2.3	4171	-	3/V 15 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	388
0.34	41300	1.2	4106	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.35	42400	1.3	4046	-	3/V 13 L4	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.35	45100	1.7	3993	-	3/V 14 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	376
0.40	35800	1.2	3557	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.40	40200	1.4	3515	-	3/V 13 L4	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.43	37400	0.9	3273	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.43	37400	0.9	3273	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.43	37300	1.5	3263	-	3/V 13 L4	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.44	36800	1.3	3222	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.44	35900	2.2	3182	-	3/V 14 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	376
0.49	32600	1.5	2887	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.50	32400	0.9	2835	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.50	32400	0.9	2835	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.51	30300	2.7	2782	-	3/V 14 L4	-	BN 100LA 4	-	-	-	206000	243000	90000	376
0.51	29000	1.9	2773	-	3/V 13 L4	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.56	28700	1.7	2510	-	3/V 11 L4	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.57	28400	1.2	2455	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.57	28400	1.2	2455	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.58	25200	1.9	2430	-	3/V 13 L3	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.61	24200	1.4	2329	-	3/V 11 L3	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.61	24000	2.8	2318	-	3/V 14 L3	-	BN 100LA 4	-	-	-	206000	243000	90000	376
0.64	25200	1.3	2209	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.64	25200	1.3	2209	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.70	20900	2.8	2019	-	3/V 13 L3	-	BN 100LA 4	-	-	-	192000	231000	80000	364
0.70	23000	1.3	2016	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.70	23000	1.3	2016	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.72	20400	2.1	1963	-	3/V 11 L3	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.77	20900	1.3	1826	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.77	20900	1.3	1826	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.79	18100	1.2	1792	-	3/V 09 L3	-	BN 100LA 4	-	-	-	110000	145000	36000	352
0.85	19200	1.7	1657	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.85	19200	1.7	1657	-	3/V 10 L4	-	BN 100LA 4	-	-	-	133000	166000	65000	340
0.86	17400	2.5	1636	-	3/V 11 L3	-	BN 100LA 4	-	-	-	157000	195000	65000	352
0.94	16200	1.1	1497	-	3/V 09 L3	-	BN 100LA 4	-	-	-	110000	144300	36000	352
1.0	15200	1.4	1411	-	3/V 10 L3	-	BN 100LA 4	-	-	-	130300	163800	63700	340
1.1	13400	1.1	1288	-	3/V 07 L3	-	BN 100LA 4	-	49200	61700	105300	138000	42800	316
1.1	13900	1.5	1288	-	3/V 09 L3	-	BN 100LA 4	-	-	-	107000	138000	34200	352
1.1	13600	2.6	1274	-	3/V 11 L3	-	BN 100LA 4	-	-	-	149300	186000	61600	352
1.1	13200	1.6	1227	-	3/V 10 L3	-	BN 100LA 4	-	-	-	124900	157100	60800	340
1.2	13000	1.2	1159	-	3/V 09 L3	-	BN 100LA 4	-	-	-	103600	133700	33000	352
1.3	12100	2.4	1120	-	3/V 10 L3	-	BN 100LA 4	-	-	-	121600	152800	59000	340
1.4	10800	1.3	1015	-	3/V 07 L3	-	BN 100LA 4	-	45400	57000	98000	128400	39500	316
1.4	10800	1.7	1004	-	3/V 09 L3	-	BN 100LA 4	-	-	-	99300	128000	31500	352
1.4	10800	2.9	1004	-	3/V 10 L3	-	BN 100LA 4	-	-	-	117600	147900	56900	340
1.5	9940	1.2	920	-	3/V 07 L3	-	BN 100LA 4	-	44000	55200	95200	124700	38200	316
1.5	10300	2.1	920	-	3/V 10 L3	-	BN 100LA 4	-	-	-	114600	144100	55200	340
1.7	9420	2.1	840	-	3/V 09 L3	-	BN 100LA 4	-	-	-	94100	121400	29700	352
1.8	8630	2.5	800	-	3/V 09 L3	-	BN 100LA 4	-	-	-	92700	119600	29200	352
1.8	8420	0.9	791	-	3/V 06 L3	-	BN 100LA 4	-	37600	42600	84500	98400	28300	304
1.8	9100	1.1	773	-	3/V 07 L3	-	BN 100LA 4	-	41500	52100	90300	118400	36100	316
1.9	8210	1.7	761	-	3/V 07 L3	-	BN 100LA 4	-	41300	51800	89900	117800	35900	316
1.9	8530	1.7	761	-	3/V 09 L3	-	BN 100LA 4	-	-	-	91300	117800	28700	352
2.0	8310	0.9	698	-	3/V 06 L3	-	BN 100LA 4	-	36100	40900	81400	94800	27100	304
2.1	7790	1.2	661	-	3/V 06 L3	-	BN 100LA 4	-	35500	40200	80100	93300	26600	304
2.2	7070	2.0	655	-	3/V 07 L3	-	BN 100LA 4	-	39300	49300	85900	112600	34100	316



P₁ = 2.2 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
2.2	7340	2.4	655	-	3/V 09 L3	-	BN 100LA 4	-	-	-	87300	112600	27300	352
2.5	6700	1.3	569	-	3/V 06 L3	-	BN 100LA 4	-	33700	38200	76600	89200	25300	304
2.5	7300	1.0	555	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	33400	37900	76000	88500	25100	305
2.7	6210	1.2	527	-	3/V 06 L3	-	BN 100LA 4	-	32900	37200	74900	87200	24700	304
2.8	5970	2.3	507	-	3/V 07 L3	-	BN 100LA 4	-	36100	45300	79600	104300	31400	316
2.8	6650	1.1	505	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	32400	36700	73900	86100	24400	305
3.1	5420	2.3	460	-	3/V 07 L3	-	BN 100LA 4	-	34900	43800	77300	101300	30400	316
3.2	5770	1.6	439	-	-	3/A 07 L2	BN 100LA 4	M 3LA 4	34400	43100	76200	99900	29900	317
3.2	5720	1.4	435	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	30800	34900	70600	82300	23200	305
3.3	5080	1.7	427	-	3/V 06 L3	-	BN 100LA 4	-	30600	34700	70300	81800	23000	304
3.5	5330	1.7	405	-	-	3/A 07 L2	BN 100LA 4	M 3LA 4	33500	42000	74400	97500	29100	317
3.6	4710	1.6	395	-	3/V 06 L3	-	BN 100LA 4	-	29900	33800	68700	80000	22400	304
3.6	5100	1.1	388	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	29700	33600	68300	79500	22300	305
3.6	4710	1.9	386	-	3/V 07 L3	-	BN 100LA 4	-	32900	41300	73400	96100	28600	316
3.7	5000	1.2	380	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	29500	33400	67900	79000	22200	305
4.1	4490	2.6	341	-	-	3/A 07 L2	BN 100LA 4	M 3LA 4	31600	39700	70700	92600	27500	317
4.4	4220	1.6	321	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	27900	31600	64500	75100	20900	305
5.0	3700	2.3	282	-	-	3/A 07 L2	BN 100LA 4	M 3LA 4	29600	37200	66700	87400	25800	317
5.0	3800	0.9	280	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	21400	24700	37800	45500	13700	293
5.1	3630	2.1	276	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	26500	30000	61600	71800	19900	305
5.3	3510	1.6	267	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	26200	29700	61000	71100	19700	305
5.6	3400	1.0	250	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	20600	23800	36600	44000	13200	281
5.8	3170	2.8	241	-	-	3/A 07 L2	BN 100LA 4	M 3LA 4	28200	35300	63700	83500	24500	317
5.9	3270	1.3	241	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	20300	23500	36200	43500	13000	293
6.2	3070	1.1	226	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	19900	23000	35500	42700	12800	281
6.4	2900	2.2	221	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	24600	27900	57700	67100	18500	305
6.6	2880	1.1	212	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	19500	22500	34800	41900	12500	293
6.6	2880	1.1	212	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	19500	22500	34800	41900	12500	293
6.9	2790	1.3	205	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	19300	22300	34500	41500	12400	281
7.1	2600	2.1	198	-	-	3/A 06 L2	BN 100LA 4	M 3LA 4	23700	26900	55800	65000	17800	305
8.0	2380	1.5	175	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	18300	21100	32900	39600	11700	293
8.1	2360	1.3	174	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	18200	21100	32800	39500	11700	281
8.7	2210	1.3	162	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	17800	20600	32100	38700	11400	281
8.7	2210	1.3	162	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	17800	20600	32100	38700	11400	293
9.5	2030	1.2	149	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	17300	20000	31300	37700	11100	281
10.0	1910	1.9	141	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	17000	19600	30800	37000	10900	293
10.9	1760	1.5	129	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	16500	19100	30000	36100	10600	281
11.6	1640	2.1	121	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	16200	18700	29400	35400	10400	293
12.1	1590	1.5	117	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	16000	18500	29100	35000	10300	281
13.6	1410	2.2	104	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	15300	17700	28100	33800	9840	293
13.8	1380	1.8	102	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	15300	17600	27900	33600	9790	281
14.6	1320	1.3	96.9	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	15000	17300	27500	33100	9630	269
15.5	1230	1.9	90.7	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	14700	17000	27000	32500	9420	281
15.9	1200	1.4	88.5	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	14600	16800	26800	32200	9340	269
17.3	1110	2.1	81.7	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	14200	16400	26200	31500	9100	281
17.3	1110	1.2	81.3	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	4610	4610	12800	14700	3030	259
18.6	1030	3.0	75.8	-	-	3/A 05 L2	BN 100LA 4	M 3LA 4	13800	16000	25600	30800	8870	293
19.0	1010	1.1	74.2	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	4470	4470	12400	14300	2940	259
19.3	990	1.8	73.2	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	13700	15800	25300	30400	8770	269
20.6	930	2.7	68.4	-	-	3/A 04 L2	BN 100LA 4	M 3LA 4	13400	15400	24800	29800	8580	281
22.4	860	1.8	62.9	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	13000	15000	24200	29100	8340	269
23.7	810	1.6	59.4	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	4150	4150	11600	13400	2730	259
26.0	740	1.6	54.2	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	4020	4020	11300	13000	2650	259
26.9	710	2.3	52.5	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	12200	14100	22900	27600	7850	269
26.9	710	2.3	52.5	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	12200	14100	22900	27600	7850	269
28.7	670	1.2	49.1	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	3890	3890	11000	12600	2560	259
32	600	1.6	43.9	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	3750	3750	10600	12200	2470	259
34	560	1.2	41.5	-	-	3/A 00 L2	BN 100LA 4	M 3LA 4	3680	3680	10500	12000	2420	249
35	550	3.0	40.5	-	-	3/A 03 L2	BN 100LA 4	M 3LA 4	11200	13000	21200	25500	7200	269
35	540	1.6	40.1	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	3640	3640	10300	11900	2390	259
36	540	1.0	39.6	-	-	3/A 00 L2	BN 100LA 4	M 3LA 4	3620	3620	10300	11800	2380	249
39	485	1.6	35.8	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	3500	3500	10000	11500	2300	259
44	430	1.5	31.7	-	-	3/A 00 L2	BN 100LA 4	M 3LA 4	3370	3370	9650	11100	2210	249
45	425	2.8	31.2	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	3340	3340	9600	11000	2200	259
60	320	1.8	23.4	-	-	3/A 00 L2	BN 100LA 4	M 3LA 4	3040	3040	8810	10100	2000	249

A

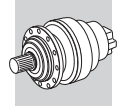


P₁ = 2.2 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					R _{n2} [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
61	315	2.8	23.0	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	3020	3020	8760	10100	1990	259
74	260	1.8	19.1	-	-	3/A 00 L2	BN 100LA 4	M 3LA 4	2840	2840	8290	9530	1870	249
75	255	2.8	18.8	-	-	3/A 01 L2	BN 100LA 4	M 3LA 4	2830	2830	8250	9470	1860	259

P₁ = 3 kW

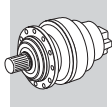
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					R _{n2} [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
0.27	76400	1.3	5234	-	3/V 15 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	388
0.28	69700	1.2	4959	-	3/V 14 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.28	72300	1.5	4950	-	3/V 15 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	388
0.28	72300	1.7	4950	-	3/V 16 L4	-	BN 100LB 4	-	-	-	345000	385000	150000	400
0.31	63800	0.9	4536	-	3/V 13 L4	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.33	60600	1.4	4312	-	3/V 14 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.34	60900	1.7	4171	-	3/V 15 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	388
0.34	60900	2.3	4171	-	3/V 16 L4	-	BN 100LB 4	-	-	-	345000	385000	150000	400
0.35	56900	1.0	4046	-	3/V 13 L4	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.35	60500	1.2	3993	-	3/V 14 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.40	53900	1.1	3515	-	3/V 13 L4	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.40	51300	2.7	3514	-	3/V 16 L4	-	BN 100LB 4	-	-	-	345000	385000	150000	400
0.43	50000	1.1	3263	-	3/V 13 L4	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.43	47500	2.9	3250	-	3/V 16 L4	-	BN 100LB 4	-	-	-	345000	385000	150000	400
0.44	49400	0.9	3222	-	3/V 11 L4	-	BN 100LB 4	-	-	-	157000	195000	65000	352
0.44	48200	1.7	3182	-	3/V 14 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.49	43700	1.1	2887	-	3/V 11 L4	-	BN 100LB 4	-	-	-	157000	195000	65000	352
0.51	40600	2.0	2782	-	3/V 14 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.51	39000	1.4	2773	-	3/V 13 L4	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.51	40000	2.9	2738	-	3/V 16 L4	-	BN 100LB 4	-	-	-	345000	385000	150000	400
0.56	38500	1.3	2510	-	3/V 11 L4	-	BN 100LB 4	-	-	-	157000	195000	65000	352
0.56	35200	2.4	2504	-	3/V 14 L4	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.58	33800	1.4	2430	-	3/V 13 L3	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.61	32400	1.0	2329	-	3/V 11 L3	-	BN 100LB 4	-	-	-	157000	195000	65000	352
0.61	32300	2.1	2318	-	3/V 14 L3	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.64	33900	1.0	2209	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.64	33900	1.0	2209	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.70	28100	2.1	2019	-	3/V 13 L3	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.70	30900	1.0	2016	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.70	30900	1.0	2016	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.71	27800	2.6	1994	-	3/V 14 L3	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.72	27300	1.6	1963	-	3/V 11 L3	-	BN 100LB 4	-	-	-	157000	195000	65000	352
0.77	28000	1.0	1826	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.77	28000	1.0	1826	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.79	24300	0.9	1792	-	3/V 09 L3	-	BN 100LB 4	-	-	-	110000	145000	36000	352
0.84	24100	2.4	1682	-	3/V 13 L3	-	BN 100LB 4	-	-	-	192000	231000	80000	364
0.85	25700	1.3	1657	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.85	25700	1.3	1657	-	3/V 10 L4	-	BN 100LB 4	-	-	-	133000	166000	65000	340
0.86	23400	1.8	1636	-	3/V 11 L3	-	BN 100LB 4	-	-	-	157000	195000	65000	352
0.89	22100	2.6	1589	-	3/V 14 L3	-	BN 100LB 4	-	-	-	206000	243000	90000	376
0.99	20300	2.8	1418	-	3/V 13 L3	-	BN 100LB 4	-	-	-	190500	225400	78500	364
1.0	20500	1.1	1411	-	3/V 10 L3	-	BN 100LB 4	-	-	-	130300	163800	63700	340
1.0	19700	2.3	1378	-	3/V 11 L3	-	BN 100LB 4	-	-	-	152900	190400	63200	352
1.1	18600	2.6	1339	-	3/V 14 L3	-	BN 100LB 4	-	-	-	199900	234700	86700	376
1.1	18500	2.9	1291	-	3/V 13 L3	-	BN 100LB 4	-	-	-	185200	219200	76100	364
1.1	18700	1.2	1288	-	3/V 09 L3	-	BN 100LB 4	-	-	-	107000	138000	34200	352
1.1	18200	1.9	1274	-	3/V 11 L3	-	BN 100LB 4	-	-	-	149300	186000	61600	352
1.1	17800	1.2	1227	-	3/V 10 L3	-	BN 100LB 4	-	-	-	124900	157100	60800	340
1.2	17400	0.9	1159	-	3/V 09 L3	-	BN 100LB 4	-	-	-	103600	133700	33000	352
1.3	16200	1.8	1120	-	3/V 10 L3	-	BN 100LB 4	-	-	-	121600	152800	59000	340
1.4	14500	1.0	1015	-	3/V 07 L3	-	BN 100LB 4	-	45400	57000	98000	128400	39500	316
1.4	14000	2.6	1004	-	3/V 11 L3	-	BN 100LB 4	-	-	-	139000	173200	56900	352
1.4	14500	1.2	1004	-	3/V 09 L3	-	BN 100LB 4	-	-	-	99300	128000	31500	352
1.4	14500	2.2	1004	-	3/V 10 L3	-	BN 100LB 4	-	-	-	117600	147900	56900	340



P₁ = 3 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]						
									MC/PC	MZ/PZ	HC	HZ	FZ		
1.5	13300	0.9	920	-	3/V 07 L3	-	BN 100LB 4	-	-	44000	55200	95200	124700	38200	316
1.5	13900	1.6	920	-	3/V 10 L3	-	BN 100LB 4	-	-	-	-	114600	144100	55200	340
1.7	12600	1.6	840	-	3/V 09 L3	-	BN 100LB 4	-	-	-	-	94100	121400	29700	352
1.8	11600	1.8	800	-	3/V 09 L3	-	BN 100LB 4	-	-	-	-	92700	119600	29200	352
1.9	11000	1.3	761	-	3/V 07 L3	-	BN 100LB 4	-	41300	51800	89900	117800	35900	316	
1.9	11500	1.3	761	-	3/V 09 L3	-	BN 100LB 4	-	-	-	91300	117800	28700	352	
2.2	9480	1.5	655	-	3/V 07 L3	-	BN 100LB 4	-	39300	49300	85900	112600	34100	316	
2.2	9850	1.8	655	-	3/V 09 L3	-	BN 100LB 4	-	-	-	87300	112600	27300	352	
2.5	8990	1.0	569	-	3/V 06 L3	-	BN 100LB 4	-	33700	38200	76600	89200	25300	304	
2.7	8330	0.9	527	-	3/V 06 L3	-	BN 100LB 4	-	32900	37200	74900	87200	24700	304	
2.8	8020	1.7	507	-	3/V 07 L3	-	BN 100LB 4	-	36100	45300	79600	104300	31400	316	
3.1	7270	1.7	460	-	3/V 07 L3	-	BN 100LB 4	-	34900	43800	77300	101300	30400	316	
3.2	6650	2.7	442	-	3/V 09 L3	-	BN 100LB 4	-	-	-	77600	100100	24000	352	
3.2	7740	1.2	439	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	34400	43100	76200	99900	29900	317	
3.2	7670	1.0	435	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	30800	34900	70600	82300	23200	305	
3.3	6820	1.3	427	-	3/V 06 L3	-	BN 100LB 4	-	30600	34700	70300	81800	23000	304	
3.5	7150	1.3	405	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	33500	42000	74400	97500	29100	317	
3.6	6320	1.2	395	-	3/V 06 L3	-	BN 100LB 4	-	29900	33800	68700	80000	22400	304	
3.6	6320	1.4	386	-	3/V 07 L3	-	BN 100LB 4	-	32900	41300	73400	96100	28600	316	
3.7	6720	0.9	380	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	29500	33400	67900	79000	22200	305	
3.8	5570	2.3	370	-	3/V 09 L3	-	BN 100LB 4	-	-	-	73600	94900	22600	352	
4.1	6020	1.9	341	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	31600	39700	70700	92600	27500	317	
4.4	5660	1.2	321	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	27900	31600	64500	75100	20900	305	
5.0	4970	1.7	282	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	29600	37200	66700	87400	25800	317	
5.1	4870	1.6	276	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	26500	30000	61600	71800	19900	305	
5.3	4710	1.2	267	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	26200	29700	61000	71100	19700	305	
5.8	4260	2.1	241	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	28200	35300	63700	83500	24500	317	
5.9	4390	1.0	241	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	20300	23500	36200	43500	13000	293	
6.3	3930	2.3	223	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	27400	34400	62200	81500	23800	317	
6.4	3900	1.7	221	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	24600	27900	57700	67100	18500	305	
6.9	3740	0.9	205	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	19300	22300	34500	41500	12400	281	
7.1	3500	1.6	198	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	23700	26900	55800	65000	17800	305	
7.1	3490	2.5	198	-	-	3/A 07 L2	BN 100LB 4 M 3LB 4	-	26300	33000	60000	78600	22900	317	
7.4	3350	2.3	190	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	23400	26500	55100	64200	17600	305	
8.0	3200	1.1	175	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	18300	21100	32900	39600	11700	293	
8.1	3170	0.9	174	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	18200	21100	32800	39500	11700	281	
8.6	2890	2.2	164	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	22300	25200	52700	61400	16700	305	
8.7	2960	1.0	162	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	17800	20600	32100	38700	11400	281	
8.7	2960	1.0	162	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	17800	20600	32100	38700	11400	293	
10.0	2570	1.4	141	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	17000	19600	30800	37000	10900	293	
10.9	2360	1.2	129	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	16500	19100	30000	36100	10600	281	
11.3	2270	2.4	125	-	-	3/A 06 L2	BN 100LB 4 M 3LB 4	-	20300	23000	48600	56500	15300	305	
11.6	2210	1.6	121	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	16200	18700	29400	35400	10400	293	
12.1	2130	1.1	117	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	16000	18500	29100	35000	10300	281	
13.6	1890	1.6	104	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	15300	17700	28100	33800	9840	293	
13.8	1860	1.4	102	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	15300	17600	27900	33600	9790	281	
14.6	1770	1.0	96.9	-	-	3/A 03 L2	BN 100LB 4 M 3LB 4	-	15000	17300	27500	33100	9630	269	
15.5	1650	1.4	90.7	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	14700	17000	27000	32500	9420	281	
15.9	1610	1.0	88.5	-	-	3/A 03 L2	BN 100LB 4 M 3LB 4	-	14600	16800	26800	32200	9340	269	
16.5	1560	2.3	85.6	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	14400	16600	26500	31900	9240	293	
17.3	1490	1.6	81.7	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	14200	16400	26200	31500	9100	281	
18.6	1380	2.2	75.8	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	13800	16000	25600	30800	8870	293	
19.3	1330	1.3	73.2	-	-	3/A 03 L2	BN 100LB 4 M 3LB 4	-	13700	15800	25300	30400	8770	269	
19.4	1320	2.5	72.5	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	13600	15700	25200	30400	8740	293	
20.6	1250	2.0	68.4	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	13400	15400	24800	29800	8580	281	
22.4	1150	1.4	62.9	-	-	3/A 03 L2	BN 100LB 4 M 3LB 4	-	13000	15000	24200	29100	8340	269	
22.5	1140	2.8	62.6	-	-	3/A 05 L2	BN 100LB 4 M 3LB 4	-	13000	15000	24200	29100	8330	293	
22.6	1140	2.5	62.4	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	13000	15000	24100	29000	8320	281	
23.7	1080	1.2	59.4	-	-	3/A 01 L2	BN 100LB 4 M 3LB 4	-	4150	4150	11600	13400	2730	259	
25.9	990	2.4	54.5	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	12400	14300	23200	27900	7950	281	
26.0	990	1.2	54.2	-	-	3/A 01 L2	BN 100LB 4 M 3LB 4	-	4020	4020	11300	13000	2650	259	
26.9	960	1.7	52.5	-	-	3/A 03 L2	BN 100LB 4 M 3LB 4	-	12200	14100	22900	27600	7850	269	
26.9	960	1.7	52.5	-	-	3/A 03 L2	BN 100LB 4 M 3LB 4	-	12200	14100	22900	27600	7850	269	
28.4	910	2.5	49.7	-	-	3/A 04 L2	BN 100LB 4 M 3LB 4	-	12000	13900	22500	27100	7710	281	
28.7	890	0.9	49.1	-	-	3/A 01 L2	BN 100LB 4 M 3LB 4	-	3890	3890	11000	12600	2560	259	



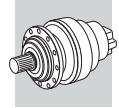


P₁ = 3 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]						
									MC/PC	MZ/PZ	HC	HZ	FZ		
32	800	1.2	43.9	-	-	3/A 01 L2	BN 100LB 4	M 3LB 4	-	3750	3750	10600	12200	2470	259
32	790	2.3	43.4	-	-	3/A 03 L2	BN 100LB 4	M 3LB 4	-	11500	13300	21600	26000	7370	269
35	740	2.2	40.5	-	-	3/A 03 L2	BN 100LB 4	M 3LB 4	-	11200	13000	21200	25500	7200	269
35	730	1.2	40.1	-	-	3/A 01 L2	BN 100LB 4	M 3LB 4	-	3640	3640	10300	11900	2390	259
39	650	1.2	35.8	-	-	3/A 01 L2	BN 100LB 4	M 3LB 4	-	3500	3500	10000	11500	2300	259
42	610	2.9	33.5	-	-	3/A 03 L2	BN 100LB 4	M 3LB 4	-	10500	12200	20000	24100	6760	269
44	580	1.1	31.7	-	-	3/A 00 L2	BN 100LB 4	M 3LB 4	-	3370	3370	9650	11100	2210	249
45	570	2.1	31.2	-	-	3/A 01 L2	BN 100LB 4	M 3LB 4	-	3340	3340	9600	11000	2200	259
49	530	3.0	28.8	-	-	3/A 03 L2	BN 100LB 4	M 3LB 4	-	10000	11600	19100	23000	6430	269
60	430	1.4	23.4	-	-	3/A 00 L2	BN 100LB 4	M 3LB 4	-	3040	3040	8810	10100	2000	249
61	420	2.1	23.0	-	-	3/A 01 L2	BN 100LB 4	M 3LB 4	-	3020	3020	8760	10100	1990	259
61	420	3.0	23.0	-	-	3/A 03 L2	BN 100LB 4	M 3LB 4	-	9290	10700	17900	21500	5960	269
73	355	3.0	19.4	-	-	3/A 03 L2	BN 100LB 4	M 3LB 4	-	8790	10100	17000	20500	5640	269
74	350	1.3	19.1	-	-	3/A 00 L2	BN 100LB 4	M 3LB 4	-	2840	2840	8290	9530	1870	249
75	345	2.1	18.8	-	-	3/A 01 L2	BN 100LB 4	M 3LB 4	-	2830	2830	8250	9470	1860	259

P₁ = 4 kW

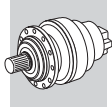
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.27	103200	1.0	5234	-	3/V 15 L4	-	BN 112M 4	-	-	-	206000	243000	90000	388
0.29	97600	1.1	4950	-	3/V 15 L4	-	BN 112M 4	-	-	-	206000	243000	90000	388
0.29	97600	1.3	4950	-	3/V 16 L4	-	BN 112M 4	-	-	-	345000	385000	150000	400
0.32	83300	2.4	4449	-	3/V 17 L4	-	BN 112M 4	-	-	-	442000	470000	150000	410
0.33	81800	1.0	4312	-	3/V 14 L4	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.34	82200	1.3	4171	-	3/V 15 L4	-	BN 112M 4	-	-	-	206000	243000	90000	388
0.34	82200	1.7	4171	-	3/V 16 L4	-	BN 112M 4	-	-	-	345000	385000	150000	400
0.36	81700	0.9	3993	-	3/V 14 L4	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.41	69300	2.0	3514	-	3/V 16 L4	-	BN 112M 4	-	-	-	345000	385000	150000	400
0.44	64100	2.1	3250	-	3/V 16 L4	-	BN 112M 4	-	-	-	345000	385000	150000	400
0.45	65100	1.2	3182	-	3/V 14 L4	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.51	54800	1.5	2782	-	3/V 14 L4	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.52	52600	1.1	2773	-	3/V 13 L4	-	BN 112M 4	-	-	-	192000	231000	80000	364
0.52	54000	2.1	2738	-	3/V 16 L4	-	BN 112M 4	-	-	-	345000	385000	150000	400
0.57	52000	0.9	2510	-	3/V 11 L4	-	BN 112M 4	-	-	-	157000	195000	65000	352
0.57	47500	1.8	2504	-	3/V 14 L4	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.59	45700	1.1	2430	-	3/V 13 L3	-	BN 112M 4	-	-	-	192000	231000	80000	364
0.62	43600	1.5	2318	-	3/V 14 L3	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.71	38000	1.5	2019	-	3/V 13 L3	-	BN 112M 4	-	-	-	192000	231000	80000	364
0.72	37500	1.9	1994	-	3/V 14 L3	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.73	36900	1.2	1963	-	3/V 11 L3	-	BN 112M 4	-	-	-	157000	195000	65000	352
0.85	32500	1.8	1682	-	3/V 13 L3	-	BN 112M 4	-	-	-	192000	231000	80000	364
0.86	32100	2.4	1662	-	3/V 14 L3	-	BN 112M 4	-	-	-	206000	243000	90000	376
0.86	34700	1.0	1657	-	3/V 10 L4	-	BN 112M 4	-	-	-	133000	166000	65000	340
0.86	34700	1.0	1657	-	3/V 10 L4	-	BN 112M 4	-	-	-	133000	166000	65000	340
0.87	31600	1.4	1636	-	3/V 11 L3	-	BN 112M 4	-	-	-	157000	195000	65000	352
0.90	29900	1.9	1589	-	3/V 14 L3	-	BN 112M 4	-	-	-	206000	243000	90000	376
1.0	27400	2.1	1418	-	3/V 13 L3	-	BN 112M 4	-	-	-	190500	225400	78500	364
1.0	26600	1.7	1378	-	3/V 11 L3	-	BN 112M 4	-	-	-	152900	190400	63200	352
1.1	25200	1.9	1339	-	3/V 14 L3	-	BN 112M 4	-	-	-	199900	234700	86700	376
1.1	25600	2.4	1324	-	3/V 14 L3	-	BN 112M 4	-	-	-	199300	233900	86300	376
1.1	24900	2.1	1291	-	3/V 13 L3	-	BN 112M 4	-	-	-	185200	219200	76100	364
1.1	24600	1.4	1274	-	3/V 11 L3	-	BN 112M 4	-	-	-	149300	186000	61600	352
1.2	24000	0.9	1227	-	3/V 10 L3	-	BN 112M 4	-	-	-	124900	157100	60800	340
1.3	21900	1.3	1120	-	3/V 10 L3	-	BN 112M 4	-	-	-	121600	152800	59000	340
1.3	21500	2.4	1116	-	3/V 14 L3	-	BN 112M 4	-	-	-	189300	222200	81500	376
1.3	21000	2.4	1088	-	3/V 13 L3	-	BN 112M 4	-	-	-	175900	208200	71900	364
1.4	18900	1.9	1004	-	3/V 11 L3	-	BN 112M 4	-	-	-	139000	173200	56900	352
1.4	19600	0.9	1004	-	3/V 09 L3	-	BN 112M 4	-	-	-	99300	128000	31500	352
1.4	19600	1.6	1004	-	3/V 10 L3	-	BN 112M 4	-	-	-	117600	147900	56900	340
1.6	18700	1.2	920	-	3/V 10 L3	-	BN 112M 4	-	-	-	114600	144100	55200	340
1.6	17400	2.4	900	-	3/V 11 L3	-	BN 112M 4	-	-	-	134500	167600	54800	352



P₁ = 4 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
1.7	17100	1.2	840	-	3/V 09 L3	-	BN 112M 4	-	-	-	94100	121400	29700	352
1.8	15600	1.4	800	-	3/V 09 L3	-	BN 112M 4	-	-	-	92700	119600	29200	352
1.9	14900	1.0	761	-	3/V 07 L3	-	BN 112M 4	-	41300	51800	89900	117800	35900	316
1.9	15500	0.9	761	-	3/V 09 L3	-	BN 112M 4	-	-	-	91300	117800	28700	352
2.2	12800	1.1	655	-	3/V 07 L3	-	BN 112M 4	-	39300	49300	85900	112600	34100	316
2.2	13300	1.3	655	-	3/V 09 L3	-	BN 112M 4	-	-	-	87300	112600	27300	352
2.8	10800	1.3	507	-	3/V 07 L3	-	BN 112M 4	-	36100	45300	79600	104300	31400	316
3.1	9820	1.3	460	-	3/V 07 L3	-	BN 112M 4	-	34900	43800	77300	101300	30400	316
3.2	8980	2.0	442	-	3/V 09 L3	-	BN 112M 4	-	-	-	77600	100100	24000	352
3.4	9210	1.0	427	-	3/V 06 L3	-	BN 112M 4	-	30600	34700	70300	81800	23000	304
3.5	9650	0.9	405	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	33500	42000	74400	97500	29100	317
3.7	8540	1.1	386	-	3/V 07 L3	-	BN 112M 4	-	32900	41300	73400	96100	28600	316
3.9	7530	1.7	370	-	3/V 09 L3	-	BN 112M 4	-	-	-	73600	94900	22600	352
4.2	8130	1.4	341	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	31600	39700	70700	92600	27500	317
5.1	6710	1.3	282	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	29600	37200	66700	87400	25800	317
5.2	6570	1.2	276	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	26500	30000	61600	71800	19900	305
5.9	5750	1.6	241	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	28200	35300	63700	83500	24500	317
6.4	5310	1.7	223	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	27400	34400	62200	81500	23800	317
6.5	5260	1.2	221	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	24600	27900	57700	67100	18500	305
7.2	4720	1.2	198	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	23700	26900	55800	65000	17800	305
7.2	4710	1.8	198	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	26300	33000	60000	78600	22900	317
7.5	4530	1.7	190	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	23400	26500	55100	64200	17600	305
7.9	4290	2.5	180	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	25500	32000	58300	76500	22200	317
8.7	3900	1.7	164	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	22300	25200	52700	61400	16700	305
9.2	3690	2.4	155	-	-	3/A 07 L2	BN 112M 4	M 3LC 4	24300	30500	55800	73100	21100	317
10.2	3360	2.3	141	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	21200	24000	50400	58700	15900	305
10.2	3460	1.0	141	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	17000	19600	30800	37000	10900	293
11.5	3070	1.8	125	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	20300	23000	48600	56500	15300	305
11.8	2980	1.2	121	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	16200	18700	29400	35400	10400	293
12.7	2670	2.3	112	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	19600	22200	47100	54800	14700	305
13.8	2550	1.2	104	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	15300	17700	28100	33800	9840	293
14.0	2510	1.0	102	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	15300	17600	27900	33600	9790	281
14.6	2420	2.2	98.3	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	18800	21300	45200	52700	14100	305
15.8	2230	1.1	90.7	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	14700	17000	27000	32500	9420	281
16.2	2180	2.8	88.5	-	-	3/A 06 L2	BN 112M 4	M 3LC 4	18100	20600	43800	51000	13600	305
16.7	2110	1.7	85.6	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	14400	16600	26500	31900	9240	293
17.5	2010	1.2	81.7	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	14200	16400	26200	31500	9100	281
18.9	1860	1.6	75.8	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	13800	16000	25600	30800	8870	293
19.5	1800	1.0	73.2	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	13700	15800	25300	30400	8770	269
19.7	1790	1.9	72.5	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	13600	15700	25200	30400	8740	293
20.9	1680	1.5	68.4	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	13400	15400	24800	29800	8580	281
22.7	1550	1.0	62.9	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	13000	15000	24200	29100	8340	269
22.8	1540	2.1	62.6	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	13000	15000	24200	29100	8330	293
22.9	1540	1.9	62.4	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	13000	15000	24100	29000	8320	281
25.1	1400	2.4	57.0	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	12600	14500	23500	28300	8070	293
26.2	1340	1.8	54.5	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	12400	14300	23200	27900	7950	281
26.9	1310	2.3	53.3	-	-	3/A 05 L2	BN 112M 4	M 3LC 4	12300	14200	23000	27700	7890	293
27.2	1290	1.3	52.5	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	12200	14100	22900	27600	7850	269
27.2	1290	1.3	52.5	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	12200	14100	22900	27600	7850	269
28.8	1220	1.9	49.7	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	12000	13900	22500	27100	7710	281
32	1090	2.6	44.3	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	11600	13300	21800	26200	7420	281
33	1070	1.7	43.4	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	11500	13300	21600	26000	7370	269
35	1000	1.7	40.5	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	11200	13000	21200	25500	7200	269
37	960	2.4	39.1	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	11100	12800	21000	25200	7120	281
41	870	2.6	35.3	-	-	3/A 04 L2	BN 112M 4	M 3LC 4	10700	12400	20300	24500	6880	281
43	820	2.2	33.5	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	10500	12200	20000	24100	6760	269
46	770	1.5	31.2	-	-	3/A 01 L2	BN 112M 4	M 3LC 4	3340	3340	9600	11000	2200	259
50	710	2.2	28.8	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	10000	11600	19100	23000	6430	269
61	580	1.0	23.4	-	-	3/A 00 L2	BN 112M 4	M 3LC 4	3040	3040	8810	10100	2000	249
62	570	1.5	23.0	-	-	3/A 01 L2	BN 112M 4	M 3LC 4	3020	3020	8760	10100	1990	259
62	560	2.2	23.0	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	9290	10700	17900	21500	5960	269
74	480	2.2	19.4	-	-	3/A 03 L2	BN 112M 4	M 3LC 4	8790	10100	17000	20500	5640	269
75	470	1.0	19.1	-	-	3/A 00 L2	BN 112M 4	M 3LC 4	2840	2840	8290	9530	1870	249
76	465	1.5	18.8	-	-	3/A 01 L2	BN 112M 4	M 3LC 4	2830	2830	8250	9470	1860	259

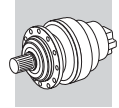
A



P₁ = 5.5 kW

A

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	139100	2.0	5099	-	3/V 18 L4	-	BN 132S 4	-	-	503000	565000	200000	420	
0.29	135500	1.1	4970	-	3/V 17 L4	-	BN 132S 4	-	-	442000	470000	150000	410	
0.29	130100	1.0	4950	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.32	124500	2.9	4457	-	3/V 19 L4	-	BN 132S 4	-	-	638000	702000	200000	430	
0.32	111100	1.8	4449	-	3/V 17 L4	-	BN 132S 4	-	-	442000	470000	150000	410	
0.33	119600	2.3	4386	-	3/V 18 L4	-	BN 132S 4	-	-	503000	565000	200000	420	
0.35	109600	1.0	4171	-	3/V 15 L4	-	BN 132S 4	-	-	206000	243000	90000	388	
0.35	109600	1.3	4171	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.35	112600	1.6	4129	-	3/V 17 L4	-	BN 132S 4	-	-	442000	470000	150000	410	
0.39	100800	2.8	3696	-	3/V 18 L4	-	BN 132S 4	-	-	503000	565000	200000	420	
0.41	92400	1.5	3514	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.41	95300	2.9	3495	-	3/V 18 L4	-	BN 132S 4	-	-	503000	565000	200000	420	
0.41	96300	1.0	3489	-	3/V 15 L4	-	BN 132S 4	-	-	206000	243000	90000	388	
0.44	91100	1.2	3300	-	3/V 15 L4	-	BN 132S 4	-	-	206000	243000	90000	388	
0.44	85400	1.6	3250	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.45	86800	0.9	3182	-	3/V 14 L4	-	BN 132S 4	-	-	206000	243000	90000	376	
0.45	86400	2.2	3168	-	3/V 17 L4	-	BN 132S 4	-	-	442000	470000	150000	410	
0.52	73100	1.1	2782	-	3/V 14 L4	-	BN 132S 4	-	-	206000	243000	90000	376	
0.52	76700	1.4	2780	-	3/V 15 L4	-	BN 132S 4	-	-	206000	243000	90000	388	
0.52	71100	2.3	2773	-	3/V 17 L4	-	BN 132S 4	-	-	442000	470000	150000	410	
0.53	72000	1.6	2738	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.58	63300	1.3	2504	-	3/V 14 L4	-	BN 132S 4	-	-	206000	243000	90000	376	
0.61	64700	2.1	2343	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.62	58100	1.1	2318	-	3/V 14 L3	-	BN 132S 4	-	-	206000	243000	90000	376	
0.62	57300	1.5	2318	-	3/V 15 L3	-	BN 132S 4	-	-	206000	243000	90000	388	
0.66	59800	2.1	2167	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.71	50600	1.1	2019	-	3/V 13 L3	-	BN 132S 4	-	-	192000	231000	80000	364	
0.72	50000	1.4	1994	-	3/V 14 L3	-	BN 132S 4	-	-	206000	243000	90000	376	
0.72	49300	1.9	1994	-	3/V 15 L3	-	BN 132S 4	-	-	206000	243000	90000	388	
0.79	50400	2.1	1826	-	3/V 16 L4	-	BN 132S 4	-	-	345000	385000	150000	400	
0.86	43300	1.3	1682	-	3/V 13 L3	-	BN 132S 4	-	-	192000	231000	80000	364	
0.87	42800	1.8	1662	-	3/V 14 L3	-	BN 132S 4	-	-	206000	243000	90000	376	
0.87	42800	2.3	1662	-	3/V 15 L3	-	BN 132S 4	-	-	206000	243000	90000	388	
0.88	42100	1.0	1636	-	3/V 11 L3	-	BN 132S 4	-	-	157000	195000	65000	352	
0.89	42800	1.1	1620	-	3/V 13 L3	-	BN 132S 4	-	-	192000	231000	80000	364	
0.91	39800	1.4	1589	-	3/V 14 L3	-	BN 132S 4	-	-	206000	243000	90000	376	
0.91	40900	2.7	1589	-	3/V 16 L3	-	BN 132S 4	-	-	345000	385000	150000	400	
1.0	36500	1.6	1418	-	3/V 13 L3	-	BN 132S 4	-	-	190500	225400	78500	364	
1.0	36000	2.4	1400	-	3/V 15 L3	-	BN 132S 4	-	-	202600	237900	88000	388	
1.0	35500	1.3	1378	-	3/V 11 L3	-	BN 132S 4	-	-	152900	190400	63200	352	
1.1	33600	1.4	1339	-	3/V 14 L3	-	BN 132S 4	-	-	199900	234700	86700	376	
1.1	35100	2.8	1329	-	3/V 15 L3	-	BN 132S 4	-	-	199500	234200	86400	388	
1.1	34100	1.8	1324	-	3/V 14 L3	-	BN 132S 4	-	-	199300	233900	86300	376	
1.1	33200	1.6	1291	-	3/V 13 L3	-	BN 132S 4	-	-	185200	219200	76100	364	
1.1	32800	1.1	1274	-	3/V 11 L3	-	BN 132S 4	-	-	149300	186000	61600	352	
1.3	29200	1.0	1120	-	3/V 10 L3	-	BN 132S 4	-	-	121600	152800	59000	340	
1.3	28700	1.8	1116	-	3/V 14 L3	-	BN 132S 4	-	-	189300	222200	81500	376	
1.3	29100	1.5	1103	-	3/V 11 L3	-	BN 132S 4	-	-	143000	178100	58700	352	
1.3	28000	1.8	1088	-	3/V 13 L3	-	BN 132S 4	-	-	175900	208200	71900	364	
1.4	28400	1.9	1009	-	3/V 13 L3	-	BN 132S 4	-	-	172000	203600	70100	364	
1.4	25200	1.4	1004	-	3/V 11 L3	-	BN 132S 4	-	-	139000	173200	56900	352	
1.4	26200	1.2	1004	-	3/V 10 L3	-	BN 132S 4	-	-	117600	147900	56900	340	
1.4	28000	2.2	997	-	3/V 14 L3	-	BN 132S 4	-	-	183000	214800	78500	376	
1.6	23200	1.8	900	-	3/V 11 L3	-	BN 132S 4	-	-	134500	167600	54800	352	
1.6	23600	2.3	893	-	3/V 14 L3	-	BN 132S 4	-	-	177000	207800	75700	376	
1.7	23000	2.3	870	-	3/V 13 L3	-	BN 132S 4	-	-	164500	194700	66700	364	
1.7	23200	1.8	827	-	3/V 11 L3	-	BN 132S 4	-	-	131100	163400	53300	352	
1.8	20900	1.0	800	-	3/V 09 L3	-	BN 132S 4	-	-	92700	119600	29200	352	
1.8	22300	2.2	794	-	3/V 14 L3	-	BN 132S 4	-	-	170900	200700	72800	376	
1.9	22000	1.0	773	-	3/V 10 L3	-	BN 132S 4	-	-	108700	136700	52100	340	
1.9	19600	2.3	741	-	3/V 13 L3	-	BN 132S 4	-	-	156800	185500	63200	364	
2.0	19000	2.1	720	-	3/V 11 L3	-	BN 132S 4	-	-	125800	156700	50900	352	
2.1	20700	1.1	701	-	3/V 10 L3	-	BN 132S 4	-	-	105600	132800	50400	340	
2.1	18400	2.3	695	-	3/V 14 L3	-	BN 132S 4	-	-	164300	192800	69700	376	
2.2	17700	1.0	655	-	3/V 09 L3	-	BN 132S 4	-	-	87300	112600	27300	352	



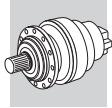
P₁ = 5.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
2.2	18100	2.2	644	-	3/V 11 L3	-	BN 132S 4	-	-	-	121700	151600	49000	352
2.3	17500	1.2	614	-	3/V 10 L3	-	BN 132S 4	-	-	-	101500	127600	48300	340
2.6	15900	1.6	560	-	3/V 10 L3	-	BN 132S 4	-	-	-	98700	124100	46800	340
2.8	14400	0.9	507	-	3/V 07 L3	-	BN 132S 4	-	36100	45300	79600	104300	31400	316
2.8	14400	1.0	507	-	3/V 09 L3	-	BN 132S 4	-	-	-	80900	104300	25100	352
2.8	14400	1.8	507	-	3/V 10 L3	-	BN 132S 4	-	-	-	95800	120500	45300	340
3.1	13100	0.9	460	-	3/V 07 L3	-	BN 132S 4	-	34900	43800	77300	101300	30400	316
3.3	12000	1.5	442	-	3/V 09 L3	-	BN 132S 4	-	-	-	77600	100100	24000	352
3.3	12400	2.2	436	-	3/V 10 L3	-	BN 132S 4	-	-	-	91600	115200	43100	340
3.9	10000	1.3	370	-	3/V 09 L3	-	BN 132S 4	-	-	-	73600	94900	22600	352
4.2	10800	1.1	341	-	-	3/A 07 L2	BN 132S 4	-	31600	39700	70700	92600	27500	317
5.1	8950	1.0	282	-	-	3/A 07 L2	BN 132S 4	-	29600	37200	66700	87400	25800	317
6.0	7670	1.2	241	-	-	3/A 07 L2	BN 132S 4	-	28200	35300	63700	83500	24500	317
6.5	7080	1.3	223	-	-	3/A 07 L2	BN 132S 4	-	27400	34400	62200	81500	23800	317
6.5	7010	0.9	221	-	-	3/A 06 L2	BN 132S 4	-	24600	27900	57700	67100	18500	305
7.3	6280	1.4	198	-	-	3/A 07 L2	BN 132S 4	-	26300	33000	60000	78600	22900	317
7.6	6030	1.3	190	-	-	3/A 06 L2	BN 132S 4	-	23400	26500	55100	64200	17600	305
8.0	5720	1.9	180	-	-	3/A 07 L2	BN 132S 4	-	25500	32000	58300	76500	22200	317
8.8	5200	1.2	164	-	-	3/A 06 L2	BN 132S 4	-	22300	25200	52700	61400	16700	305
9.3	4920	1.8	155	-	-	3/A 07 L2	BN 132S 4	-	24300	30500	55800	73100	21100	317
10.2	4470	1.7	141	-	-	3/A 06 L2	BN 132S 4	-	21200	24000	50400	58700	15900	305
10.3	4460	2.5	140	-	-	3/A 07 L2	BN 132S 4	-	23500	29500	54100	70900	20400	317
11.1	4120	2.7	130	-	-	3/A 07 L2	BN 132S 4	-	22900	28700	52900	69300	19900	317
11.6	4090	1.3	125	-	-	3/A 06 L2	BN 132S 4	-	20300	23000	48600	56500	15300	305
12.8	3570	1.7	112	-	-	3/A 06 L2	BN 132S 4	-	19600	22200	47100	54800	14700	305
13.2	3450	2.6	109	-	-	3/A 07 L2	BN 132S 4	-	21600	27100	50100	65700	18800	317
13.9	3400	0.9	104	-	-	3/A 05 L2	BN 132S 4	-	15300	17700	28100	33800	9840	293
14.7	3230	1.7	98.3	-	-	3/A 06 L2	BN 132S 4	-	18800	21300	45200	52700	14100	305
16.3	2910	2.1	88.5	-	-	3/A 06 L2	BN 132S 4	-	18100	20600	43800	51000	13600	305
16.8	2810	1.3	85.6	-	-	3/A 05 L2	BN 132S 4	-	14400	16600	26500	31900	9240	293
17.7	2670	2.4	81.2	-	-	3/A 06 L2	BN 132S 4	-	17600	20000	42700	49700	13200	305
19.0	2490	1.2	75.8	-	-	3/A 05 L2	BN 132S 4	-	13800	16000	25600	30800	8870	293
19.9	2380	1.4	72.5	-	-	3/A 05 L2	BN 132S 4	-	13600	15700	25200	30400	8740	293
20.6	2290	2.5	69.9	-	-	3/A 06 L2	BN 132S 4	-	16800	19000	40800	47500	12600	305
21.0	2250	1.1	68.4	-	-	3/A 04 L2	BN 132S 4	-	13400	15400	24800	29800	8580	281
23.0	2060	1.6	62.6	-	-	3/A 05 L2	BN 132S 4	-	13000	15000	24200	29100	8330	293
23.1	2050	1.4	62.4	-	-	3/A 04 L2	BN 132S 4	-	13000	15000	24100	29000	8320	281
25.2	1870	1.8	57.0	-	-	3/A 05 L2	BN 132S 4	-	12600	14500	23500	28300	8070	293
25.9	1830	2.5	55.7	-	-	3/A 06 L2	BN 132S 4	-	15500	17600	38100	44400	11700	305
26.4	1790	1.3	54.5	-	-	3/A 04 L2	BN 132S 4	-	12400	14300	23200	27900	7950	281
27.0	1750	1.7	53.3	-	-	3/A 05 L2	BN 132S 4	-	12300	14200	23000	27700	7890	293
29.0	1630	1.4	49.7	-	-	3/A 04 L2	BN 132S 4	-	12000	13900	22500	27100	7710	281
31	1550	2.5	47.2	-	-	3/A 06 L2	BN 132S 4	-	14700	16700	36300	42300	11000	305
33	1450	2.0	44.3	-	-	3/A 04 L2	BN 132S 4	-	11600	13300	21800	26200	7420	281
33	1440	2.3	44.0	-	-	3/A 05 L2	BN 132S 4	-	11500	13300	21700	26100	7400	293
37	1280	1.8	39.1	-	-	3/A 04 L2	BN 132S 4	-	11100	12800	21000	25200	7120	281
37	1280	2.4	39.0	-	-	3/A 05 L2	BN 132S 4	-	11100	12800	21000	25200	7110	293
41	1160	2.0	35.3	-	-	3/A 04 L2	BN 132S 4	-	10700	12400	20300	24500	6880	281
48	990	2.3	30.2	-	-	3/A 04 L2	BN 132S 4	-	10200	11700	19400	23300	6530	281
56	840	2.3	25.6	-	-	3/A 04 L2	BN 132S 4	-	9630	11100	18500	22200	6180	281

P₁ = 7.5 kW

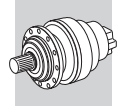
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	183800	2.2	5164	-	3/V 19 L4	-	BN 132MA 4	-	-	-	638000	702000	200000	430
0.28	193100	1.5	5099	-	3/V 18 L4	-	BN 132MA 4	-	-	-	503000	565000	200000	420
0.32	172900	2.1	4457	-	3/V 19 L4	-	BN 132MA 4	-	-	-	638000	702000	200000	430
0.32	154300	1.3	4449	-	3/V 17 L4	-	BN 132MA 4	-	-	-	442000	470000	150000	410
0.33	166100	1.7	4386	-	3/V 18 L4	-	BN 132MA 4	-	-	-	503000	565000	200000	420
0.35	152300	0.9	4171	-	3/V 16 L4	-	BN 132MA 4	-	-	-	345000	385000	150000	400
0.35	156400	1.2	4129	-	3/V 17 L4	-	BN 132MA 4	-	-	-	442000	470000	150000	410





P₁ = 7.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
0.35	155100	2.5	4095	-	3/V 19 L4	-	BN 132MA 4	-	-	638000	702000	200000	430	
0.39	140000	2.0	3696	-	3/V 18 L4	-	BN 132MA 4	-	-	503000	565000	200000	420	
0.41	128300	1.1	3514	-	3/V 16 L4	-	BN 132MA 4	-	-	345000	385000	150000	400	
0.41	132400	2.1	3495	-	3/V 18 L4	-	BN 132MA 4	-	-	503000	565000	200000	420	
0.44	118600	1.1	3250	-	3/V 16 L4	-	BN 132MA 4	-	-	345000	385000	150000	400	
0.45	125300	2.9	3231	-	3/V 19 L4	-	BN 132MA 4	-	-	638000	702000	200000	430	
0.45	120000	1.6	3168	-	3/V 17 L4	-	BN 132MA 4	-	-	442000	470000	150000	410	
0.49	111600	2.4	2945	-	3/V 18 L4	-	BN 132MA 4	-	-	503000	565000	200000	420	
0.52	106600	1.0	2780	-	3/V 15 L4	-	BN 132MA 4	-	-	206000	243000	90000	388	
0.52	98700	1.7	2773	-	3/V 17 L4	-	BN 132MA 4	-	-	442000	470000	150000	410	
0.53	100000	1.1	2738	-	3/V 16 L4	-	BN 132MA 4	-	-	345000	385000	150000	400	
0.58	88000	0.9	2504	-	3/V 14 L4	-	BN 132MA 4	-	-	206000	243000	90000	376	
0.58	95600	2.9	2464	-	3/V 18 L4	-	BN 132MA 4	-	-	503000	565000	200000	420	
0.61	89800	1.5	2343	-	3/V 16 L4	-	BN 132MA 4	-	-	345000	385000	150000	400	
0.62	79600	1.0	2318	-	3/V 15 L3	-	BN 132MA 4	-	-	206000	243000	90000	388	
0.63	86900	2.4	2295	-	3/V 18 L4	-	BN 132MA 4	-	-	503000	565000	200000	420	
0.66	83100	1.5	2167	-	3/V 16 L4	-	BN 132MA 4	-	-	345000	385000	150000	400	
0.72	69400	1.0	1994	-	3/V 14 L3	-	BN 132MA 4	-	-	206000	243000	90000	376	
0.72	68500	1.4	1994	-	3/V 15 L3	-	BN 132MA 4	-	-	206000	243000	90000	388	
0.79	70000	1.5	1826	-	3/V 16 L4	-	BN 132MA 4	-	-	345000	385000	150000	400	
0.86	60100	1.0	1682	-	3/V 13 L3	-	BN 132MA 4	-	-	192000	231000	80000	364	
0.87	59400	1.3	1662	-	3/V 14 L3	-	BN 132MA 4	-	-	206000	243000	90000	376	
0.87	59400	1.7	1662	-	3/V 15 L3	-	BN 132MA 4	-	-	206000	243000	90000	388	
0.91	55300	1.0	1589	-	3/V 14 L3	-	BN 132MA 4	-	-	206000	243000	90000	376	
0.91	56800	2.0	1589	-	3/V 16 L3	-	BN 132MA 4	-	-	345000	385000	150000	400	
1.0	50700	1.1	1418	-	3/V 13 L3	-	BN 132MA 4	-	-	190500	225400	78500	364	
1.0	50100	1.7	1400	-	3/V 15 L3	-	BN 132MA 4	-	-	202600	237900	88000	388	
1.0	49300	0.9	1378	-	3/V 11 L3	-	BN 132MA 4	-	-	152900	190400	63200	352	
1.1	46600	1.0	1339	-	3/V 14 L3	-	BN 132MA 4	-	-	199900	234700	86700	376	
1.1	48800	2.0	1329	-	3/V 15 L3	-	BN 132MA 4	-	-	199500	234200	86400	388	
1.1	47300	1.3	1324	-	3/V 14 L3	-	BN 132MA 4	-	-	199300	233900	86300	376	
1.1	47300	2.4	1324	-	3/V 16 L3	-	BN 132MA 4	-	-	331300	368500	143900	400	
1.1	46100	1.1	1291	-	3/V 13 L3	-	BN 132MA 4	-	-	185200	219200	76100	364	
1.3	41100	2.2	1120	-	3/V 15 L3	-	BN 132MA 4	-	-	189500	222500	81600	388	
1.3	39900	1.3	1116	-	3/V 14 L3	-	BN 132MA 4	-	-	189300	222200	81500	376	
1.3	40500	1.1	1103	-	3/V 11 L3	-	BN 132MA 4	-	-	143000	178100	58700	352	
1.3	38900	1.3	1088	-	3/V 13 L3	-	BN 132MA 4	-	-	175900	208200	71900	364	
1.4	39400	1.4	1009	-	3/V 13 L3	-	BN 132MA 4	-	-	172000	203600	70100	364	
1.4	35000	1.0	1004	-	3/V 11 L3	-	BN 132MA 4	-	-	139000	173200	56900	352	
1.4	38900	1.6	997	-	3/V 14 L3	-	BN 132MA 4	-	-	183000	214800	78500	376	
1.4	38900	2.4	997	-	3/V 15 L3	-	BN 132MA 4	-	-	183000	214800	78500	388	
1.6	32200	1.3	900	-	3/V 11 L3	-	BN 132MA 4	-	-	134500	167600	54800	352	
1.6	32800	1.7	893	-	3/V 14 L3	-	BN 132MA 4	-	-	177000	207800	75700	376	
1.7	31900	1.7	870	-	3/V 13 L3	-	BN 132MA 4	-	-	164500	194700	66700	364	
1.7	32800	2.5	840	-	3/V 15 L3	-	BN 132MA 4	-	-	173800	204100	74200	388	
1.7	32300	1.3	827	-	3/V 11 L3	-	BN 132MA 4	-	-	131100	163400	53300	352	
1.8	31000	1.6	794	-	3/V 14 L3	-	BN 132MA 4	-	-	170900	200700	72800	376	
1.9	27200	1.7	741	-	3/V 13 L3	-	BN 132MA 4	-	-	156800	185500	63200	364	
2.0	26400	1.5	720	-	3/V 11 L3	-	BN 132MA 4	-	-	125800	156700	50900	352	
2.1	25500	1.7	695	-	3/V 14 L3	-	BN 132MA 4	-	-	164300	192800	69700	376	
2.2	25200	1.6	644	-	3/V 11 L3	-	BN 132MA 4	-	-	121700	151600	49000	352	
2.6	22100	1.2	560	-	3/V 10 L3	-	BN 132MA 4	-	-	98700	124100	46800	340	
2.8	20000	1.3	507	-	3/V 10 L3	-	BN 132MA 4	-	-	95800	120500	45300	340	
3.3	16600	1.1	442	-	3/V 09 L3	-	BN 132MA 4	-	-	77600	100100	24000	352	
3.3	17200	1.5	436	-	3/V 10 L3	-	BN 132MA 4	-	-	91600	115200	43100	340	
3.9	13900	0.9	370	-	3/V 09 L3	-	BN 132MA 4	-	-	73600	94900	22600	352	
6.5	9840	0.9	223	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	27400	34400	62200	81500	23800	317
7.3	8720	1.0	198	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	26300	33000	60000	78600	22900	317
7.6	8380	0.9	190	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	23400	26500	55100	64200	17600	305
8.0	7950	1.4	180	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	25500	32000	58300	76500	22200	317
9.3	6840	1.3	155	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	24300	30500	55800	73100	21100	317
10.2	6210	1.2	141	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	21200	24000	50400	58700	15900	305
10.3	6190	1.8	140	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	23500	29500	54100	70900	20400	317
11.1	5720	1.9	130	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	22900	28700	52900	69300	19900	317
11.6	5680	1.0	125	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	20300	23000	48600	56500	15300	305



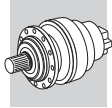
P₁ = 7.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
12.8	4950	1.2	112	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	19600	22200	47100	54800	14700	305
13.2	4800	1.8	109	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	21600	27100	50100	65700	18800	317
14.7	4480	1.2	98.3	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	18800	21300	45200	52700	14100	305
16.3	4040	1.5	88.5	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	18100	20600	43800	51000	13600	305
16.4	4000	2.6	87.7	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	20100	25200	47000	61600	17500	317
16.8	3900	0.9	85.6	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	14400	16600	26500	31900	9240	293
17.7	3700	1.8	81.2	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	17600	20000	42700	49700	13200	305
19.9	3310	1.0	72.5	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	13600	15700	25200	30400	8740	293
20.6	3190	1.8	69.9	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	16800	19000	40800	47500	12600	305
21.1	3110	2.5	68.3	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	18500	23200	43600	57200	16100	317
23.0	2850	1.1	62.6	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	13000	15000	24200	29100	8330	293
23.1	2840	1.0	62.4	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	13000	15000	24100	29000	8320	281
23.9	2740	2.2	60.1	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	15900	18100	39000	45500	12000	305
25.1	2610	2.5	57.3	-	-	3/A 07 L2	BN 132MA 4	M 4LA 4	17400	21900	41400	54200	15200	317
25.2	2600	1.3	57.0	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	12600	14500	23500	28300	8070	293
25.9	2540	1.8	55.7	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	15500	17600	38100	44400	11700	305
26.4	2490	1.0	54.5	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	12400	14300	23200	27900	7950	281
27.0	2430	1.3	53.3	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	12300	14200	23000	27700	7890	293
27.8	2360	2.2	51.7	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	15200	17200	37300	43400	11400	305
29.0	2270	1.0	49.7	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	12000	13900	22500	27100	7710	281
31	2150	1.8	47.2	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	14700	16700	36300	42300	11000	305
33	2020	1.4	44.3	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	11600	13300	21800	26200	7420	281
33	2010	1.6	44.0	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	11500	13300	21700	26100	7400	293
35	1870	2.6	41.1	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	14000	15900	34800	40500	10500	305
37	1780	1.3	39.1	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	11100	12800	21000	25200	7120	281
37	1780	1.7	39.0	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	11100	12800	21000	25200	7110	293
41	1610	1.4	35.3	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	10700	12400	20300	24500	6880	281
41	1590	2.2	34.9	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	13300	15100	33200	38600	9990	305
44	1490	2.6	32.7	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	13000	14700	32500	37900	9780	305
45	1470	2.3	32.2	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	10400	12000	19800	23800	6670	293
48	1380	1.7	30.2	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	10200	11700	19400	23300	6530	281
52	1260	2.2	27.7	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	9890	11400	18900	22800	6350	281
52	1260	2.3	27.7	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	9890	11400	18900	22800	6350	293
52	1260	2.6	27.7	-	-	3/A 06 L2	BN 132MA 4	M 4LA 4	12300	14000	30900	36000	9250	305
56	1170	1.6	25.6	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	9630	11100	18500	22200	6180	281
65	1010	2.3	22.1	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	9170	10600	17700	21300	5880	281
65	1010	2.3	22.1	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	9170	10600	17700	21300	5880	293
77	850	2.2	18.7	-	-	3/A 04 L2	BN 132MA 4	M 4LA 4	8680	10000	16800	20200	5570	281
77	850	2.2	18.7	-	-	3/A 05 L2	BN 132MA 4	M 4LA 4	8680	10000	16800	20200	5570	293

P₁ = 9.2 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	224200	1.8	5164	-	3/V 19 L4	-	BN 132MB 4	-	-	-	638000	702000	200000	430
0.28	235600	1.2	5099	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.29	221700	2.5	5040	-	3/V 21 L4	-	BN 132MB 4	-	-	-	779000	923000	1200000	440
0.32	212800	2.6	4550	-	3/V 21 L4	-	BN 132MB 4	-	-	-	779000	923000	1200000	440
0.32	210900	1.7	4457	-	3/V 19 L4	-	BN 132MB 4	-	-	-	638000	702000	200000	430
0.32	188200	1.1	4449	-	3/V 17 L4	-	BN 132MB 4	-	-	-	442000	470000	150000	410
0.33	202700	1.4	4386	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.35	190800	1.0	4129	-	3/V 17 L4	-	BN 132MB 4	-	-	-	442000	470000	150000	410
0.35	189200	2.0	4095	-	3/V 19 L4	-	BN 132MB 4	-	-	-	638000	702000	200000	430
0.38	176800	2.6	3780	-	3/V 21 L4	-	BN 132MB 4	-	-	-	779000	923000	1200000	440
0.39	170800	1.6	3696	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.41	161500	1.7	3495	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.44	144700	0.9	3250	-	3/V 16 L4	-	BN 132MB 4	-	-	-	345000	385000	150000	400
0.45	152900	2.4	3231	-	3/V 19 L4	-	BN 132MB 4	-	-	-	638000	702000	200000	430
0.45	146400	1.3	3168	-	3/V 17 L4	-	BN 132MB 4	-	-	-	442000	470000	150000	410
0.49	136100	2.0	2945	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.52	120400	1.4	2773	-	3/V 17 L4	-	BN 132MB 4	-	-	-	442000	470000	150000	410
0.53	122000	0.9	2738	-	3/V 16 L4	-	BN 132MB 4	-	-	-	345000	385000	150000	400

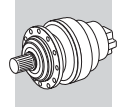




P₁ = 9.2 kW

A

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.56	122200	3.0	2582	-	3/V 19 L4	-	BN 132MB 4	-	-	-	638000	702000	200000	430
0.58	116600	2.4	2464	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.61	109600	1.3	2343	-	3/V 16 L4	-	BN 132MB 4	-	-	-	345000	385000	150000	400
0.63	106000	2.0	2295	-	3/V 18 L4	-	BN 132MB 4	-	-	-	503000	565000	200000	420
0.66	101300	1.3	2167	-	3/V 16 L4	-	BN 132MB 4	-	-	-	345000	385000	150000	400
0.72	83500	1.1	1994	-	3/V 15 L3	-	BN 132MB 4	-	-	-	206000	243000	90000	388
0.79	85400	1.3	1826	-	3/V 16 L4	-	BN 132MB 4	-	-	-	345000	385000	150000	400
0.87	72500	1.0	1662	-	3/V 14 L3	-	BN 132MB 4	-	-	-	206000	243000	90000	376
0.87	72500	1.4	1662	-	3/V 15 L3	-	BN 132MB 4	-	-	-	206000	243000	90000	388
0.91	69300	1.6	1589	-	3/V 16 L3	-	BN 132MB 4	-	-	-	345000	385000	150000	400
1.0	61800	0.9	1418	-	3/V 13 L3	-	BN 132MB 4	-	-	-	190500	225400	78500	364
1.0	61100	1.4	1400	-	3/V 15 L3	-	BN 132MB 4	-	-	-	202600	237900	88000	388
1.1	61900	2.5	1365	-	3/V 17 L3	-	BN 132MB 4	-	-	-	429900	457700	145400	410
1.1	59500	1.6	1329	-	3/V 15 L3	-	BN 132MB 4	-	-	-	199500	234200	86400	388
1.1	57800	1.1	1324	-	3/V 14 L3	-	BN 132MB 4	-	-	-	199300	233900	86300	376
1.1	57800	1.9	1324	-	3/V 16 L3	-	BN 132MB 4	-	-	-	331300	368500	143900	400
1.1	56300	0.9	1291	-	3/V 13 L3	-	BN 132MB 4	-	-	-	185200	219200	76100	364
1.2	58600	2.6	1215	-	3/V 17 L3	-	BN 132MB 4	-	-	-	415100	442000	139800	410
1.3	51400	2.5	1134	-	3/V 17 L3	-	BN 132MB 4	-	-	-	406600	432900	136600	410
1.3	50100	1.8	1120	-	3/V 15 L3	-	BN 132MB 4	-	-	-	189500	222500	81600	388
1.3	48700	1.1	1116	-	3/V 14 L3	-	BN 132MB 4	-	-	-	189300	222200	81500	376
1.3	47400	1.1	1088	-	3/V 13 L3	-	BN 132MB 4	-	-	-	175900	208200	71900	364
1.4	48000	2.5	1059	-	3/V 16 L3	-	BN 132MB 4	-	-	-	309800	344600	133600	400
1.4	49400	2.6	1024	-	3/V 17 L3	-	BN 132MB 4	-	-	-	394300	419900	132100	410
1.4	48100	1.1	1009	-	3/V 13 L3	-	BN 132MB 4	-	-	-	172000	203600	70100	364
1.4	47500	1.3	997	-	3/V 14 L3	-	BN 132MB 4	-	-	-	183000	214800	78500	376
1.4	47500	2.0	997	-	3/V 15 L3	-	BN 132MB 4	-	-	-	183000	214800	78500	388
1.6	39300	1.0	900	-	3/V 11 L3	-	BN 132MB 4	-	-	-	134500	167600	54800	352
1.6	40000	1.4	893	-	3/V 14 L3	-	BN 132MB 4	-	-	-	177000	207800	75700	376
1.6	40500	2.5	893	-	3/V 16 L3	-	BN 132MB 4	-	-	-	294300	327300	126200	400
1.7	38900	1.4	870	-	3/V 13 L3	-	BN 132MB 4	-	-	-	164500	194700	66700	364
1.7	41000	2.6	851	-	3/V 17 L3	-	BN 132MB 4	-	-	-	373000	397100	124200	410
1.7	40000	2.0	840	-	3/V 15 L3	-	BN 132MB 4	-	-	-	173800	204100	74200	388
1.7	39400	1.1	827	-	3/V 11 L3	-	BN 132MB 4	-	-	-	131100	163400	53300	352
1.8	37800	1.3	794	-	3/V 14 L3	-	BN 132MB 4	-	-	-	170900	200700	72800	376
1.8	38300	2.6	794	-	3/V 16 L3	-	BN 132MB 4	-	-	-	284200	316100	121400	400
1.9	33200	1.4	741	-	3/V 13 L3	-	BN 132MB 4	-	-	-	156800	185500	63200	364
2.0	32200	1.2	720	-	3/V 11 L3	-	BN 132MB 4	-	-	-	125800	156700	50900	352
2.1	31100	1.4	695	-	3/V 14 L3	-	BN 132MB 4	-	-	-	164300	192800	69700	376
2.2	32300	2.6	669	-	3/V 16 L3	-	BN 132MB 4	-	-	-	270000	300300	114600	400
2.2	32400	2.7	665	-	3/V 15 L3	-	BN 132MB 4	-	-	-	162000	190200	68600	388
2.2	30700	1.3	644	-	3/V 11 L3	-	BN 132MB 4	-	-	-	121700	151600	49000	352
2.6	27000	1.0	560	-	3/V 10 L3	-	BN 132MB 4	-	-	-	98700	124100	46800	340
2.6	27300	3.0	560	-	3/V 15 L3	-	BN 132MB 4	-	-	-	153900	180700	64800	388
2.8	24500	1.1	507	-	3/V 10 L3	-	BN 132MB 4	-	-	-	95800	120500	45300	340
3.2	21800	3.0	446	-	3/V 15 L3	-	BN 132MB 4	-	-	-	143800	168800	60100	388
3.3	21000	1.3	436	-	3/V 10 L3	-	BN 132MB 4	-	-	-	91600	115200	43100	340
8.0	9700	1.1	180	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	25500	32000	58300	76500	22200	317
9.3	8340	1.1	155	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	24300	30500	55800	73100	21100	317
10.2	7580	1.0	141	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	21200	24000	50400	58700	15900	305
10.3	7560	1.5	140	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	23500	29500	54100	70900	20400	317
11.1	6980	1.6	130	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	22900	28700	52900	69300	19900	317
12.8	6040	1.0	112	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	19600	22200	47100	54800	14700	305
13.2	5850	1.5	109	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	21600	27100	50100	65700	18800	317
14.7	5460	1.0	98.3	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	18800	21300	45200	52700	14100	305
16.3	4920	1.3	88.5	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	18100	20600	43800	51000	13600	305
16.4	4880	2.1	87.7	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	20100	25200	47000	61600	17500	317
17.7	4520	1.4	81.2	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	17600	20000	42700	49700	13200	305
20.6	3890	1.5	69.9	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	16800	19000	40800	47500	12600	305
21.1	3800	2.1	68.3	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	18500	23200	43600	57200	16100	317
23.0	3480	0.9	62.6	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	13000	15000	24200	29100	8330	293
23.9	3340	1.8	60.1	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	15900	18100	39000	45500	12000	305
25.1	3180	2.1	57.3	-	-	3/A 07 L2	BN 132MB 4	M 4LB 4	17400	21900	41400	54200	15200	317
25.2	3170	1.0	57.0	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	12600	14500	23500	28300	8070	293
25.9	3100	1.5	55.7	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	15500	17600	38100	44400	11700	305



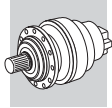
P₁ = 9.2 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
27.0	2960	1.0	53.3	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	12300	14200	23000	27700	7890	293
27.8	2880	1.8	51.7	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	15200	17200	37300	43400	11400	305
31	2620	1.5	47.2	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	14700	16700	36300	42300	11000	305
33	2460	1.2	44.3	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	11600	13300	21800	26200	7420	281
33	2450	1.4	44.0	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	11500	13300	21700	26100	7400	293
35	2280	2.1	41.1	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	14000	15900	34800	40500	10500	305
37	2170	1.0	39.1	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	11100	12800	21000	25200	7120	281
37	2170	1.4	39.0	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	11100	12800	21000	25200	7110	293
41	1960	1.2	35.3	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	10700	12400	20300	24500	6880	281
41	1940	1.8	34.9	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	13300	15100	33200	38600	9990	305
44	1820	2.2	32.7	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	13000	14700	32500	37900	9780	305
45	1790	1.8	32.2	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	10400	12000	19800	23800	6670	293
48	1680	1.4	30.2	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	10200	11700	19400	23300	6530	281
52	1540	1.8	27.7	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	9890	11400	18900	22800	6350	281
52	1540	1.8	27.7	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	9890	11400	18900	22800	6350	293
52	1540	2.2	27.7	-	-	3/A 06 L2	BN 132MB 4	M 4LB 4	12300	14000	30900	36000	9250	305
56	1420	1.4	25.6	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	9630	11100	18500	22200	6180	281
65	1230	1.8	22.1	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	9170	10600	17700	21300	5880	281
65	1230	1.8	22.1	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	9170	10600	17700	21300	5880	293
77	1040	1.8	18.7	-	-	3/A 04 L2	BN 132MB 4	M 4LB 4	8680	10000	16800	20200	5570	281
77	1040	1.8	18.7	-	-	3/A 05 L2	BN 132MB 4	M 4LB 4	8680	10000	16800	20200	5570	293

P₁ = 11 kW

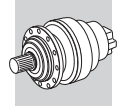
n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	268300	1.5	5164	-	3/V 19 L4	-	BN 160MR 4	-	-	-	638000	702000	200000	430
0.28	282000	1.0	5099	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.29	265300	2.1	5040	-	3/V 21 L4	-	BN 160MR 4	-	-	-	779000	923000	1200000	440
0.32	254600	2.2	4550	-	3/V 21 L4	-	BN 160MR 4	-	-	-	779000	923000	1200000	440
0.32	252400	1.4	4457	-	3/V 19 L4	-	BN 160MR 4	-	-	-	638000	702000	200000	430
0.33	242600	1.2	4386	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.35	226400	1.7	4095	-	3/V 19 L4	-	BN 160MR 4	-	-	-	638000	702000	200000	430
0.38	211500	2.2	3780	-	3/V 21 L4	-	BN 160MR 4	-	-	-	779000	923000	1200000	440
0.39	204400	1.4	3696	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.40	206300	2.6	3600	-	3/V 21 L4	-	BN 160MR 4	-	-	-	779000	923000	1200000	440
0.41	193300	1.5	3495	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.45	183000	2.0	3231	-	3/V 19 L4	-	BN 160MR 4	-	-	-	638000	702000	200000	430
0.45	175200	1.1	3168	-	3/V 17 L4	-	BN 160MR 4	-	-	-	442000	470000	150000	410
0.49	162900	1.7	2945	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.52	144100	1.2	2773	-	3/V 17 L4	-	BN 160MR 4	-	-	-	442000	470000	150000	410
0.56	146200	2.5	2582	-	3/V 19 L4	-	BN 160MR 4	-	-	-	638000	702000	200000	430
0.58	145700	1.1	2485	-	3/V 17 L4	-	BN 160MR 4	-	-	-	442000	470000	150000	410
0.58	139500	2.0	2464	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.61	131100	1.1	2343	-	3/V 16 L4	-	BN 160MR 4	-	-	-	345000	385000	150000	400
0.63	126900	1.7	2295	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.66	121300	1.1	2167	-	3/V 16 L4	-	BN 160MR 4	-	-	-	345000	385000	150000	400
0.70	121100	1.5	2065	-	3/V 17 L4	-	BN 160MR 4	-	-	-	442000	470000	150000	410
0.72	100000	0.9	1994	-	3/V 15 L3	-	BN 160MR 4	-	-	-	206000	243000	90000	388
0.78	108300	2.6	1848	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.79	102200	1.1	1826	-	3/V 16 L4	-	BN 160MR 4	-	-	-	345000	385000	150000	400
0.81	100800	1.8	1780	-	3/V 17 L4	-	BN 160MR 4	-	-	-	442000	470000	150000	410
0.82	102500	2.7	1748	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	565000	200000	420
0.87	86700	1.1	1662	-	3/V 15 L3	-	BN 160MR 4	-	-	-	206000	243000	90000	388
0.91	82900	1.4	1589	-	3/V 16 L3	-	BN 160MR 4	-	-	-	345000	385000	150000	400
0.98	86300	3.0	1473	-	3/V 18 L4	-	BN 160MR 4	-	-	-	503000	563100	198800	420
1.0	73100	1.2	1400	-	3/V 15 L3	-	BN 160MR 4	-	-	-	202600	237900	88000	388
1.1	74100	2.1	1365	-	3/V 17 L3	-	BN 160MR 4	-	-	-	429900	457700	145400	410
1.1	71200	1.4	1329	-	3/V 15 L3	-	BN 160MR 4	-	-	-	199500	234200	86400	388
1.1	69100	1.6	1324	-	3/V 16 L3	-	BN 160MR 4	-	-	-	331300	368500	143900	400
1.2	70100	2.2	1215	-	3/V 17 L3	-	BN 160MR 4	-	-	-	415100	442000	139800	410
1.3	61500	2.1	1134	-	3/V 17 L3	-	BN 160MR 4	-	-	-	406600	432900	136600	410





P₁ = 11 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
					MC/PC	MZ/PZ	HC	HZ	FZ					
1.3	60000	1.5	1120	-	3/V 15 L3	-	BN 160MR 4	-	-	-	189500	222500	81600	388
1.4	57500	2.1	1059	-	3/V 16 L3	-	BN 160MR 4	-	-	-	309800	344600	133600	400
1.4	59100	2.2	1024	-	3/V 17 L3	-	BN 160MR 4	-	-	-	394300	419900	132100	410
1.4	57500	0.9	1009	-	3/V 13 L3	-	BN 160MR 4	-	-	-	172000	203600	70100	364
1.4	56800	1.1	997	-	3/V 14 L3	-	BN 160MR 4	-	-	-	183000	214800	78500	376
1.4	56800	1.6	997	-	3/V 15 L3	-	BN 160MR 4	-	-	-	183000	214800	78500	388
1.6	47800	1.2	893	-	3/V 14 L3	-	BN 160MR 4	-	-	-	177000	207800	75700	376
1.6	48400	2.1	893	-	3/V 16 L3	-	BN 160MR 4	-	-	-	294300	327300	126200	400
1.7	46600	1.2	870	-	3/V 13 L3	-	BN 160MR 4	-	-	-	164500	194700	66700	364
1.7	49100	2.2	851	-	3/V 17 L3	-	BN 160MR 4	-	-	-	373000	397100	124200	410
1.7	47900	1.7	840	-	3/V 15 L3	-	BN 160MR 4	-	-	-	173800	204100	74200	388
1.8	47300	0.9	810	-	3/V 13 L3	-	BN 160MR 4	-	-	-	161100	190600	65100	364
1.8	47800	3.0	810	-	3/V 17 L3	-	BN 160MR 4	-	-	-	367600	391400	122100	410
1.8	45300	1.1	794	-	3/V 14 L3	-	BN 160MR 4	-	-	-	170900	200700	72800	376
1.8	45800	2.2	794	-	3/V 16 L3	-	BN 160MR 4	-	-	-	284200	316100	121400	400
1.9	39700	1.2	741	-	3/V 13 L3	-	BN 160MR 4	-	-	-	156800	185500	63200	364
2.0	38600	1.0	720	-	3/V 11 L3	-	BN 160MR 4	-	-	-	125800	156700	50900	352
2.1	37300	1.2	695	-	3/V 14 L3	-	BN 160MR 4	-	-	-	164300	192800	69700	376
2.1	39300	1.3	673	-	3/V 13 L3	-	BN 160MR 4	-	-	-	152300	180300	61200	364
2.2	38600	2.2	669	-	3/V 16 L3	-	BN 160MR 4	-	-	-	270000	300300	114600	400
2.2	38800	1.8	665	-	3/V 14 L3	-	BN 160MR 4	-	-	-	162000	190200	68600	376
2.2	38800	2.3	665	-	3/V 15 L3	-	BN 160MR 4	-	-	-	162000	190200	68600	388
2.2	36700	1.1	644	-	3/V 11 L3	-	BN 160MR 4	-	-	-	121700	151600	49000	352
2.5	35000	1.6	579	-	3/V 14 L3	-	BN 160MR 4	-	-	-	155500	182600	65500	376
2.5	33100	1.5	567	-	3/V 13 L3	-	BN 160MR 4	-	-	-	144700	171300	57800	364
2.6	32700	2.5	560	-	3/V 15 L3	-	BN 160MR 4	-	-	-	153900	180700	64800	388
2.6	32200	1.2	551	-	3/V 11 L3	-	BN 160MR 4	-	-	-	116100	144600	46600	352
2.8	30100	1.7	516	-	3/V 13 L3	-	BN 160MR 4	-	-	-	140700	166500	56100	364
2.8	29800	1.2	510	-	3/V 11 L3	-	BN 160MR 4	-	-	-	113400	141300	45400	352
2.9	30100	1.9	498	-	3/V 14 L3	-	BN 160MR 4	-	-	-	148600	174500	62300	376
2.9	30100	2.8	498	-	3/V 15 L3	-	BN 160MR 4	-	-	-	148600	174500	62300	388
3.2	26100	1.8	446	-	3/V 14 L3	-	BN 160MR 4	-	-	-	143800	168800	60100	376
3.2	26100	2.5	446	-	3/V 15 L3	-	BN 160MR 4	-	-	-	143800	168800	60100	388
3.3	25200	1.1	436	-	3/V 10 L3	-	BN 160MR 4	-	-	-	91600	115200	43100	340
3.4	25100	1.6	430	-	3/V 11 L3	-	BN 160MR 4	-	-	-	107800	134200	42800	352
3.4	25700	1.8	425	-	3/V 13 L3	-	BN 160MR 4	-	-	-	132700	157100	52600	364
3.6	24000	1.9	397	-	3/V 14 L3	-	BN 160MR 4	-	-	-	138800	163000	57800	376
3.7	23600	2.9	386	-	3/V 15 L3	-	BN 160MR 4	-	-	-	137700	161700	57300	388
3.9	21600	1.8	370	-	3/V 13 L3	-	BN 160MR 4	-	-	-	127300	150700	50200	364
8.0	11600	0.9	180	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	25500	32000	58300	76500	22200	317
9.3	9990	0.9	155	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	24300	30500	55800	73100	21100	317
10.3	9040	1.2	140	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	23500	29500	54100	70900	20400	317
11.1	8360	1.3	130	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	22900	28700	52900	69300	19900	317
13.2	7000	1.3	109	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	21600	27100	50100	65700	18800	317
16.3	5890	1.1	88.5	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	18100	20600	43800	51000	13600	305
16.4	5840	1.7	87.7	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	20100	25200	47000	61600	17500	317
17.7	5410	1.2	81.2	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	17600	20000	42700	49700	13200	305
20.6	4650	1.2	69.9	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	16800	19000	40800	47500	12600	305
21.1	4550	1.7	68.3	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	18500	23200	43600	57200	16100	317
23.9	4000	1.5	60.1	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	15900	18100	39000	45500	12000	305
25.1	3810	1.7	57.3	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	17400	21900	41400	54200	15200	317
25.9	3710	1.2	55.7	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	15500	17600	38100	44400	11700	305
27.8	3440	1.5	51.7	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	15200	17200	37300	43400	11400	305
29.3	3280	2.6	49.2	-	-	3/A 07 L2	BN 160MR 4	M 4LC 4	16600	20800	39500	51800	14400	317
31	3140	1.2	47.2	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	14700	16700	36300	42300	11000	305
33	2950	1.0	44.3	-	-	3/A 04 L2	-	M 4LC 4	11600	13300	21800	26200	7420	281
33	2930	1.1	44.0	-	-	3/A 05 L2	-	M 4LC 4	11500	13300	21700	26100	7400	293
35	2730	1.8	41.1	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	14000	15900	34800	40500	10500	305
37	2600	1.2	39.0	-	-	3/A 05 L2	-	M 4LC 4	11100	12800	21000	25200	7110	293
41	2350	1.0	35.3	-	-	3/A 04 L2	-	M 4LC 4	10700	12400	20300	24500	6880	281
41	2320	1.5	34.9	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	13300	15100	33200	38600	9990	305
44	2180	1.8	32.7	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	13000	14700	32500	37900	9780	305
45	2150	1.5	32.2	-	-	3/A 05 L2	-	M 4LC 4	10400	12000	19800	23800	6670	293
48	2010	1.1	30.2	-	-	3/A 04 L2	-	M 4LC 4	10200	11700	19400	23300	6530	281
52	1850	1.5	27.7	-	-	3/A 04 L2	-	M 4LC 4	9890	11400	18900	22800	6350	281



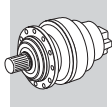
P₁ = 11 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
52	1850	1.5	27.7	-	-	3/A 05 L2	-	M 4LC 4	9890	11400	18900	22800	6350	293
52	1850	1.8	27.7	-	-	3/A 06 L2	BN 160MR 4	M 4LC 4	12300	14000	30900	36000	9250	305
56	1700	1.1	25.6	-	-	3/A 04 L2	-	M 4LC 4	9630	11100	18500	22200	6180	281
65	1470	1.5	22.1	-	-	3/A 04 L2	-	M 4LC 4	9170	10600	17700	21300	5880	281
65	1470	1.5	22.1	-	-	3/A 05 L2	-	M 4LC 4	9170	10600	17700	21300	5880	293
77	1250	1.5	18.7	-	-	3/A 04 L2	-	M 4LC 4	8680	10000	16800	20200	5570	281
77	1250	1.5	18.7	-	-	3/A 05 L2	-	M 4LC 4	8680	10000	16800	20200	5570	293

P₁ = 15 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	360200	1.1	5164	-	3/V 19 L4	-	BN 160L 4	-	-	-	638000	702000	200000	430
0.29	356100	1.6	5040	-	3/V 21 L4	-	BN 160L 4	-	-	-	779000	923000	1200000	440
0.32	341800	1.6	4550	-	3/V 21 L4	-	BN 160L 4	-	-	-	779000	923000	1200000	440
0.33	338900	1.1	4457	-	3/V 19 L4	-	BN 160L 4	-	-	-	638000	702000	200000	430
0.36	304000	1.3	4095	-	3/V 19 L4	-	BN 160L 4	-	-	-	638000	702000	200000	430
0.39	284000	1.6	3780	-	3/V 21 L4	-	BN 160L 4	-	-	-	779000	923000	1200000	440
0.40	274400	1.0	3696	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.41	276900	1.9	3600	-	3/V 21 L4	-	BN 160L 4	-	-	-	779000	923000	1200000	440
0.42	259500	1.1	3495	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.45	245600	1.5	3231	-	3/V 19 L4	-	BN 160L 4	-	-	-	638000	702000	200000	430
0.50	218600	1.2	2945	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.54	212500	2.5	2700	-	3/V 21 L4	-	BN 160L 4	-	-	-	779000	923000	1200000	440
0.57	196300	1.9	2582	-	3/V 19 L4	-	BN 160L 4	-	-	-	638000	702000	200000	430
0.58	193800	2.6	2520	-	3/V 21 L4	-	BN 160L 4	-	-	-	779000	923000	1200000	440
0.59	187300	1.5	2464	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.64	170400	1.2	2295	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.71	162500	1.1	2065	-	3/V 17 L4	-	BN 160L 4	-	-	-	442000	470000	150000	410
0.79	145500	1.9	1848	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.82	135300	1.4	1780	-	3/V 17 L4	-	BN 160L 4	-	-	-	442000	470000	150000	410
0.84	137600	2.0	1748	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	565000	200000	420
0.92	111300	1.0	1589	-	3/V 16 L3	-	BN 160L 4	-	-	-	345000	385000	150000	400
0.99	115900	2.2	1473	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	563100	198800	420
1.1	99400	1.5	1365	-	3/V 17 L3	-	BN 160L 4	-	-	-	429900	457700	145400	410
1.1	95600	1.0	1329	-	3/V 15 L3	-	BN 160L 4	-	-	-	199500	234200	86400	388
1.1	92800	1.2	1324	-	3/V 16 L3	-	BN 160L 4	-	-	-	331300	368500	143900	400
1.2	98100	2.8	1232	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	533700	187300	420
1.2	94100	1.6	1215	-	3/V 17 L3	-	BN 160L 4	-	-	-	415100	442000	139800	410
1.3	92800	3.0	1165	-	3/V 18 L4	-	BN 160L 4	-	-	-	503000	524900	183800	420
1.3	82600	1.5	1134	-	3/V 17 L3	-	BN 160L 4	-	-	-	406600	432900	136600	410
1.3	80600	1.1	1120	-	3/V 15 L3	-	BN 160L 4	-	-	-	189500	222500	81600	388
1.4	77200	1.6	1059	-	3/V 16 L3	-	BN 160L 4	-	-	-	309800	344600	133600	400
1.4	79300	1.6	1024	-	3/V 17 L3	-	BN 160L 4	-	-	-	394300	419900	132100	410
1.5	76300	1.2	997	-	3/V 15 L3	-	BN 160L 4	-	-	-	183000	214800	78500	388
1.6	65000	1.6	893	-	3/V 16 L3	-	BN 160L 4	-	-	-	294300	327300	126200	400
1.7	65900	1.6	851	-	3/V 17 L3	-	BN 160L 4	-	-	-	373000	397100	124200	410
1.7	64300	1.3	840	-	3/V 15 L3	-	BN 160L 4	-	-	-	173800	204100	74200	388
1.8	64200	2.2	810	-	3/V 17 L3	-	BN 160L 4	-	-	-	367600	391400	122100	410
1.8	61500	1.6	794	-	3/V 16 L3	-	BN 160L 4	-	-	-	284200	316100	121400	400
2.1	54100	2.6	683	-	3/V 17 L3	-	BN 160L 4	-	-	-	349200	371800	115400	410
2.2	52700	1.0	673	-	3/V 13 L3	-	BN 160L 4	-	-	-	152300	180300	61200	364
2.2	51800	1.6	669	-	3/V 16 L3	-	BN 160L 4	-	-	-	270000	300300	114600	400
2.2	52100	1.3	665	-	3/V 14 L3	-	BN 160L 4	-	-	-	162000	190200	68600	376
2.2	52100	1.7	665	-	3/V 15 L3	-	BN 160L 4	-	-	-	162000	190200	68600	388
2.4	49300	2.7	608	-	3/V 17 L3	-	BN 160L 4	-	-	-	337200	359000	111000	410
2.5	47000	1.2	579	-	3/V 14 L3	-	BN 160L 4	-	-	-	155500	182600	65500	376
2.6	44400	1.1	567	-	3/V 13 L3	-	BN 160L 4	-	-	-	144700	171300	57800	364
2.6	45000	2.6	567	-	3/V 17 L3	-	BN 160L 4	-	-	-	330300	351700	108500	410
2.6	43900	1.9	560	-	3/V 15 L3	-	BN 160L 4	-	-	-	153900	180700	64800	388
2.6	43200	0.9	551	-	3/V 11 L3	-	BN 160L 4	-	-	-	116100	144600	46600	352
2.8	42000	2.6	530	-	3/V 16 L3	-	BN 160L 4	-	-	-	251700	279900	106000	400



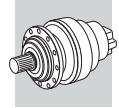


P₁ = 15 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
2.8	40500	1.3	516	-	3/V 13 L3	-	BN 160L 4	-	-	-	140700	166500	56100	364
2.9	40400	1.4	498	-	3/V 14 L3	-	BN 160L 4	-	-	-	148600	174500	62300	376
2.9	40400	2.1	498	-	3/V 15 L3	-	BN 160L 4	-	-	-	148600	174500	62300	388
3.3	35000	1.4	446	-	3/V 14 L3	-	BN 160L 4	-	-	-	143800	168800	60100	376
3.3	35000	1.9	446	-	3/V 15 L3	-	BN 160L 4	-	-	-	143800	168800	60100	388
3.3	35400	2.6	446	-	3/V 16 L3	-	BN 160L 4	-	-	-	239100	265900	100100	400
3.4	33700	1.2	430	-	3/V 11 L3	-	BN 160L 4	-	-	-	107800	134200	42800	352
3.4	34500	1.4	425	-	3/V 13 L3	-	BN 160L 4	-	-	-	132700	157100	52600	364
3.7	32200	1.4	397	-	3/V 14 L3	-	BN 160L 4	-	-	-	138800	163000	57800	376
3.8	31700	2.1	386	-	3/V 15 L3	-	BN 160L 4	-	-	-	137700	161700	57300	388
3.9	29000	1.4	370	-	3/V 13 L3	-	BN 160L 4	-	-	-	127300	150700	50200	364
10.4	12100	0.9	140	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	23500	29500	54100	70900	20400	317
11.3	11200	1.0	130	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	22900	28700	52900	69300	19900	317
13.4	9400	0.9	109	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	21600	27100	50100	65700	18800	317
16.7	7830	1.3	87.7	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	20100	25200	47000	61600	17500	317
20.9	6240	0.9	69.9	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	16800	19000	40800	47500	12600	305
21.4	6100	1.3	68.3	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	18500	23200	43600	57200	16100	317
24.3	5370	1.1	60.1	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	15900	18100	39000	45500	12000	305
25.5	5120	1.3	57.3	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	17400	21900	41400	54200	15200	317
26.2	4970	0.9	55.7	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	15500	17600	38100	44400	11700	305
28.2	4620	1.1	51.7	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	15200	17200	37300	43400	11400	305
29.7	4400	1.9	49.2	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	16600	20800	39500	51800	14400	317
31	4210	0.9	47.2	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	14700	16700	36300	42300	11000	305
35	3710	2.6	41.5	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	15700	19600	37600	49200	13600	317
36	3670	1.3	41.1	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	14000	15900	34800	40500	10500	305
42	3120	1.1	34.9	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	13300	15100	33200	38600	9990	305
45	2920	1.3	32.7	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	13000	14700	32500	37900	9780	305
45	2890	2.7	32.3	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	14400	18100	34900	45700	12500	317
53	2480	1.3	27.7	-	-	3/A 06 L2	BN 160L 4	M 5SB 4	12300	14000	30900	36000	9250	305
54	2420	2.7	27.1	-	-	3/A 07 L2	BN 160L 4	M 5SB 4	13600	17000	33100	43300	11800	317

P₁ = 18.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.28	444800	0.9	5164	-	3/V 19 L4	-	BN 180M 4	-	-	-	638000	702000	200000	430
0.29	439700	1.3	5040	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.32	422100	1.3	4550	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.36	375300	1.0	4095	-	3/V 19 L4	-	BN 180M 4	-	-	-	638000	702000	200000	430
0.39	350600	1.3	3780	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.41	341900	1.6	3600	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.45	303300	1.2	3231	-	3/V 19 L4	-	BN 180M 4	-	-	-	638000	702000	200000	430
0.50	270000	1.0	2945	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	565000	200000	420
0.54	262400	2.0	2700	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.57	242400	1.5	2582	-	3/V 19 L4	-	BN 180M 4	-	-	-	638000	702000	200000	430
0.58	239300	2.1	2520	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.59	231300	1.2	2464	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	565000	200000	420
0.64	210400	1.0	2295	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	565000	200000	420
0.64	221100	2.5	2275	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.71	200600	0.9	2065	-	3/V 17 L4	-	BN 180M 4	-	-	-	442000	470000	150000	410
0.77	183700	2.5	1890	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.79	179600	1.6	1848	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	565000	200000	420
0.81	178900	3.0	1800	-	3/V 21 L4	-	BN 180M 4	-	-	-	779000	923000	1200000	440
0.82	167000	1.1	1780	-	3/V 17 L4	-	BN 180M 4	-	-	-	442000	470000	150000	410
0.84	169800	1.7	1748	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	565000	200000	420
0.99	143100	1.8	1473	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	563100	198800	420
1.1	122800	1.3	1365	-	3/V 17 L3	-	BN 180M 4	-	-	-	429900	457700	145400	410
1.1	114600	1.0	1324	-	3/V 16 L3	-	BN 180M 4	-	-	-	331300	368500	143900	400
1.2	121100	2.3	1232	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	533700	187300	420
1.2	116200	1.3	1215	-	3/V 17 L3	-	BN 180M 4	-	-	-	415100	442000	139800	410
1.3	114500	2.4	1165	-	3/V 18 L4	-	BN 180M 4	-	-	-	503000	524900	183800	420
1.3	102000	1.3	1134	-	3/V 17 L3	-	BN 180M 4	-	-	-	406600	432900	136600	410



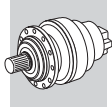
P₁ = 18.5 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
1.3	99500	0.9	1120	-	3/V 15 L3	-	BN 180M 4	-	-	189500	222500	81600	388	
1.4	95300	1.3	1059	-	3/V 16 L3	-	BN 180M 4	-	-	309800	344600	133600	400	
1.4	97900	1.3	1024	-	3/V 17 L3	-	BN 180M 4	-	-	394300	419900	132100	410	
1.5	94200	1.0	997	-	3/V 15 L3	-	BN 180M 4	-	-	183000	214800	78500	388	
1.5	96500	2.5	982	-	3/V 18 L4	-	BN 180M 4	-	-	488500	498600	173600	420	
1.6	80300	1.3	893	-	3/V 16 L3	-	BN 180M 4	-	-	294300	327300	126200	400	
1.7	81300	1.3	851	-	3/V 17 L3	-	BN 180M 4	-	-	373000	397100	124200	410	
1.7	79400	1.0	840	-	3/V 15 L3	-	BN 180M 4	-	-	173800	204100	74200	388	
1.8	79300	1.8	810	-	3/V 17 L3	-	BN 180M 4	-	-	367600	391400	122100	410	
1.8	76000	1.3	794	-	3/V 16 L3	-	BN 180M 4	-	-	284200	316100	121400	400	
1.9	75200	2.5	765	-	3/V 18 L4	-	BN 180M 4	-	-	453300	462600	159800	420	
2.1	66800	2.1	683	-	3/V 17 L3	-	BN 180M 4	-	-	349200	371800	115400	410	
2.2	64000	1.3	669	-	3/V 16 L3	-	BN 180M 4	-	-	270000	300300	114600	400	
2.2	64300	1.1	665	-	3/V 14 L3	-	BN 180M 4	-	-	162000	190200	68600	376	
2.2	64300	1.4	665	-	3/V 15 L3	-	BN 180M 4	-	-	162000	190200	68600	388	
2.4	60900	2.2	608	-	3/V 17 L3	-	BN 180M 4	-	-	337200	359000	111000	410	
2.5	58100	1.0	579	-	3/V 14 L3	-	BN 180M 4	-	-	155500	182600	65500	376	
2.6	55500	2.1	567	-	3/V 17 L3	-	BN 180M 4	-	-	330300	351700	108500	410	
2.6	54200	1.5	560	-	3/V 15 L3	-	BN 180M 4	-	-	153900	180700	64800	388	
2.8	51900	2.1	530	-	3/V 16 L3	-	BN 180M 4	-	-	251700	279900	106000	400	
2.8	50000	1.0	516	-	3/V 13 L3	-	BN 180M 4	-	-	140700	166500	56100	364	
2.9	51300	2.5	512	-	3/V 17 L3	-	BN 180M 4	-	-	320300	341000	104800	410	
2.9	49900	1.2	498	-	3/V 14 L3	-	BN 180M 4	-	-	148600	174500	62300	376	
2.9	49900	1.7	498	-	3/V 15 L3	-	BN 180M 4	-	-	148600	174500	62300	388	
3.3	43200	1.1	446	-	3/V 14 L3	-	BN 180M 4	-	-	143800	168800	60100	376	
3.3	43200	1.5	446	-	3/V 15 L3	-	BN 180M 4	-	-	143800	168800	60100	388	
3.3	43700	2.1	446	-	3/V 16 L3	-	BN 180M 4	-	-	239100	265900	100100	400	
3.4	41600	1.0	430	-	3/V 11 L3	-	BN 180M 4	-	-	107800	134200	42800	352	
3.4	42600	1.1	425	-	3/V 13 L3	-	BN 180M 4	-	-	132700	157100	52600	364	
3.4	42600	2.5	425	-	3/V 17 L3	-	BN 180M 4	-	-	303000	322600	98500	410	
3.7	39800	1.2	397	-	3/V 14 L3	-	BN 180M 4	-	-	138800	163000	57800	376	
3.7	39800	2.5	397	-	3/V 16 L3	-	BN 180M 4	-	-	230900	256800	96300	400	
3.8	39100	1.7	386	-	3/V 15 L3	-	BN 180M 4	-	-	137700	161700	57300	388	
3.9	35800	1.1	370	-	3/V 13 L3	-	BN 180M 4	-	-	127300	150700	50200	364	
16.7	9670	1.1	87.7	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	20100	25200	47000	61600	17500	317
21.4	7540	1.1	68.3	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	18500	23200	43600	57200	16100	317
24.3	6640	0.9	60.1	-	-	3/A 06 L2	BN 180M 4	M 5LA 4	15900	18100	39000	45500	12000	305
25.5	6320	1.1	57.3	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	17400	21900	41400	54200	15200	317
28.2	5710	0.9	51.7	-	-	3/A 06 L2	BN 180M 4	M 5LA 4	15200	17200	37300	43400	11400	305
29.7	5430	1.5	49.2	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	16600	20800	39500	51800	14400	317
35	4580	2.1	41.5	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	15700	19600	37600	49200	13600	317
36	4530	1.1	41.1	-	-	3/A 06 L2	BN 180M 4	M 5LA 4	14000	15900	34800	40500	10500	305
42	3850	0.9	34.9	-	-	3/A 06 L2	BN 180M 4	M 5LA 4	13300	15100	33200	38600	9990	305
45	3610	1.1	32.7	-	-	3/A 06 L2	BN 180M 4	M 5LA 4	13000	14700	32500	37900	9780	305
45	3570	2.2	32.3	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	14400	18100	34900	45700	12500	317
53	3060	1.1	27.7	-	-	3/A 06 L2	BN 180M 4	M 5LA 4	12300	14000	30900	36000	9250	305
54	2990	2.2	27.1	-	-	3/A 07 L2	BN 180M 4	M 5LA 4	13600	17000	33100	43300	11800	317

P₁ = 22 kW

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.29	523300	1.1	5040	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	
0.32	502300	1.1	4550	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	
0.39	417300	1.1	3780	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	
0.41	406900	1.3	3600	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	
0.45	360900	1.0	3231	-	3/V 19 L4	-	BN 180L 4	-	-	638000	702000	2000000	430	
0.54	312300	1.7	2700	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	
0.57	288400	1.3	2582	-	3/V 19 L4	-	BN 180L 4	-	-	638000	702000	2000000	430	
0.58	284800	1.8	2520	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	
0.59	275300	1.0	2464	-	3/V 18 L4	-	BN 180L 4	-	-	503000	565000	2000000	420	
0.64	263100	2.1	2275	-	3/V 21 L4	-	BN 180L 4	-	-	779000	923000	1200000	440	





P₁ = 22 kW

A

n ₂ min ⁻¹	M _{n2} Nm	f _s	i	Pt kW					Rn ₂ [N]					
									MC/PC	MZ/PZ	HC	HZ	FZ	
0.77	218600	2.1	1890	-	3/V 21 L4	-	BN 180L 4	-	-	-	779000	923000	1200000	440
0.79	213700	1.3	1848	-	3/V 18 L4	-	BN 180L 4	-	-	-	503000	565000	200000	420
0.81	212900	2.5	1800	-	3/V 21 L4	-	BN 180L 4	-	-	-	779000	923000	1200000	440
0.82	198800	0.9	1780	-	3/V 17 L4	-	BN 180L 4	-	-	-	442000	470000	150000	410
0.84	202100	1.4	1748	-	3/V 18 L4	-	BN 180L 4	-	-	-	503000	565000	200000	420
0.96	179400	2.9	1517	-	3/V 21 L4	-	BN 180L 4	-	-	-	779000	923000	1200000	440
0.99	170300	1.5	1473	-	3/V 18 L4	-	BN 180L 4	-	-	-	503000	563100	198800	420
1.1	146100	1.1	1365	-	3/V 17 L3	-	BN 180L 4	-	-	-	429900	457700	145400	410
1.2	149000	2.9	1260	-	3/V 21 L4	-	BN 180L 4	-	-	-	742400	880400	1132200	440
1.2	144100	1.9	1232	-	3/V 18 L4	-	BN 180L 4	-	-	-	503000	533700	187300	420
1.2	138300	1.1	1215	-	3/V 17 L3	-	BN 180L 4	-	-	-	415100	442000	139800	410
1.3	136300	2.0	1165	-	3/V 18 L4	-	BN 180L 4	-	-	-	503000	524900	183800	420
1.3	121400	1.1	1134	-	3/V 17 L3	-	BN 180L 4	-	-	-	406600	432900	136600	410
1.4	113400	1.1	1059	-	3/V 16 L3	-	BN 180L 4	-	-	-	309800	344600	133600	400
1.4	116500	1.1	1024	-	3/V 17 L3	-	BN 180L 4	-	-	-	394300	419900	132100	410
1.5	114800	2.1	982	-	3/V 18 L4	-	BN 180L 4	-	-	-	488500	498600	173600	420
1.6	95500	1.1	893	-	3/V 16 L3	-	BN 180L 4	-	-	-	294300	327300	126200	400
1.7	96800	1.1	851	-	3/V 17 L3	-	BN 180L 4	-	-	-	373000	397100	124200	410
1.8	94400	1.5	810	-	3/V 17 L3	-	BN 180L 4	-	-	-	367600	391400	122100	410
1.8	90400	1.1	794	-	3/V 16 L3	-	BN 180L 4	-	-	-	284200	316100	121400	400
1.9	89500	2.1	765	-	3/V 18 L4	-	BN 180L 4	-	-	-	453300	462600	159800	420
2.1	79500	1.8	683	-	3/V 17 L3	-	BN 180L 4	-	-	-	349200	371800	115400	410
2.2	76200	1.1	669	-	3/V 16 L3	-	BN 180L 4	-	-	-	270000	300300	114600	400
2.2	76500	0.9	665	-	3/V 14 L3	-	BN 180L 4	-	-	-	162000	190200	68600	376
2.2	76500	1.2	665	-	3/V 15 L3	-	BN 180L 4	-	-	-	162000	190200	68600	388
2.4	72400	1.9	608	-	3/V 17 L3	-	BN 180L 4	-	-	-	337200	359000	111000	410
2.6	66100	1.8	567	-	3/V 17 L3	-	BN 180L 4	-	-	-	330300	351700	108500	410
2.6	64500	1.3	560	-	3/V 15 L3	-	BN 180L 4	-	-	-	153900	180700	64800	388
2.8	61700	1.8	530	-	3/V 16 L3	-	BN 180L 4	-	-	-	251700	279900	106000	400
2.9	61000	2.1	512	-	3/V 17 L3	-	BN 180L 4	-	-	-	320300	341000	104800	410
2.9	59400	1.0	498	-	3/V 14 L3	-	BN 180L 4	-	-	-	148600	174500	62300	376
2.9	59400	1.4	498	-	3/V 15 L3	-	BN 180L 4	-	-	-	148600	174500	62300	388
3.3	51400	0.9	446	-	3/V 14 L3	-	BN 180L 4	-	-	-	143800	168800	60100	376
3.3	51400	1.3	446	-	3/V 15 L3	-	BN 180L 4	-	-	-	143800	168800	60100	388
3.3	52000	1.8	446	-	3/V 16 L3	-	BN 180L 4	-	-	-	239100	265900	100100	400
3.4	50700	0.9	425	-	3/V 13 L3	-	BN 180L 4	-	-	-	132700	157100	52600	364
3.4	50700	2.1	425	-	3/V 17 L3	-	BN 180L 4	-	-	-	303000	322600	98500	410
3.6	49400	2.6	405	-	3/V 17 L3	-	BN 180L 4	-	-	-	298600	317900	96900	410
3.7	47400	1.0	397	-	3/V 14 L3	-	BN 180L 4	-	-	-	138800	163000	57800	376
3.7	47400	2.1	397	-	3/V 16 L3	-	BN 180L 4	-	-	-	230900	256800	96300	400
3.8	46600	1.4	386	-	3/V 15 L3	-	BN 180L 4	-	-	-	137700	161700	57300	388
3.9	42600	0.9	370	-	3/V 13 L3	-	BN 180L 4	-	-	-	127300	150700	50200	364
29.7	6460	1.3	49.2	-	-	3/A 07 L2	BN 180L 4	-	16600	20800	39500	51800	14400	317
35	5450	1.8	41.5	-	-	3/A 07 L2	BN 180L 4	-	15700	19600	37600	49200	13600	317
36	5390	0.9	41.1	-	-	3/A 06 L2	BN 180L 4	-	14000	15900	34800	40500	10500	305
45	4300	0.9	32.7	-	-	3/A 06 L2	BN 180L 4	-	13000	14700	32500	37900	9780	305
45	4240	1.9	32.3	-	-	3/A 07 L2	BN 180L 4	-	14400	18100	34900	45700	12500	317
53	3640	0.9	27.7	-	-	3/A 06 L2	BN 180L 4	-	12300	14000	30900	36000	9250	305
54	3560	1.9	27.1	-	-	3/A 07 L2	BN 180L 4	-	13600	17000	33100	43300	11800	317