

5 Technical data of the motors

5.1 Key to the data of the global motor / energy-efficient motor

The following table lists the short symbols used in the "Technical data" tables.

P_N	Rated power
M_N	Rated torque
n_N	Rated speed
I_N	Rated current
$\cos\varphi$	Power factor
$\eta_{50\%}$	Efficiency at 50% of the rated power
$\eta_{75\%}$	Efficiency at 75% of the rated power
$\eta_{100\%}$	Efficiency at 100% of the rated power
I_A/I_N	Starting current ratio
M_A/M_N	Starting torque ratio
M_H/M_N	Ramp-up torque ratio
M_K/M_N	Breakdown torque ratio
m	Mass of the motor
J_{Mot}	Mass moment of inertia of the motor
BE..	Brake used
Z_0 BG	Starting frequency for operation with BG brake controller
Z_0 BGE	Starting frequency for operation with BGE brake controller
M_B	Braking torque
m_B	Mass of the brake motor
J_{MOT_BE}	Mass moment of inertia of the brake motor

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INFORMATION



Please also note VO640/2009 and VO4/2014 regarding the prohibition of using IE1 motors in EU Europe.

5.2 Global motor, 50/60 Hz, 2-pole, S1

2-pole DRS.. motors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS71M2	0.55	1.87 1.53	2810 3425	1.37 1.35	0.79 0.79	IE1	70.7 73.2	73.5 76.3	72.9 75.5	4.9 5.8	2.9 3.4	2.1 2.1	2.3 2.7

2-pole DRS.. motors/brakemotors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS71M2	0.55	1.87 1.53	2810 3425	9.1	7.21	BE05	2000 4500	3.5	11.5	8.51

2-pole DRE.. motors for 400 V, 50/60 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRE80M2	0.75	2.5 2.05	2890 3505	1.54 1.3	0.89 0.89	IE2	81.1 81.6	79.2 81.0	79.2 80.0	7.9 9.7	3.4 4.0	3.0 3.3	3.4 4.1
DRE90M2	1.1	3.65 3	2870 3485	2.2 1.9	0.89 0.89	IE2	83.5 84.4	82.2 83.8	81.2 82.5	7.2 8.8	3.2 3.7	3.0 3.4	3.2 3.9
DRE90L2	1.5	5 4.15	2840 3460	2.75 2.5	0.93 0.93	IE2	84.7 86.3	84.0 86.1	81.7 84.0	6.3 7.9	2.9 3.4	2.5 2.8	2.6 3.1
DRE100M2	2.2	7.3 6	2880 3495	4.15 3.65	0.91 0.91	IE2	87.4 87.8	85.6 86.8	84.5 85.5	8.2 10.0	3.8 4.5	3.3 3.5	3.4 4.0
DRE100L2	3	10.1 8.2	2850 3475	5.5 4.8	0.93 0.93	IE2	88.0 88.9	87.4 88.8	85.6 87.5	7.2 9.3	3.5 4.4	3.1 3.9	3.1 4.0
DRE112M2	4	13.2 10.9	2900 3510	7.5 6.6	0.89 0.89	IE2	87.7 88.3	87.6 88.2	86.5 87.5	6.3 7.4	2.3 2.6	2.1 2.3	2.8 3.3
DRE132M2	5.5	17.9 14.8	2935 3540	9.8 8.8	0.90 0.90	IE2	90.2 89.5	90.7 89.2	90.1 88.5	8.7 9.1	2.9 3.1	2.5 2.5	3.5 3.9
DRE132MC2	7.5	24.5 20	2940 3555	13.7 12.2	0.89 0.89	IE2	90.2 88.5	90.1 90.3	88.9 89.5	7.6 8.7	2.2 2.5	1.9 2.1	2.9 3.3

2-pole DRE.. motors/brakemotors for 400 V, 50/60 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE80M2	0.75	2.5 2.05	2890 3505	14.3	21.7	BE05	1300 3200	5	17.1	23.2
DRE90M2	1.1	3.65 3	2870 3485	18.4	35.7	BE1	1100 2700	10	21.3	37.3
DRE90L2	1.5	5 4.15	2840 3460	21.4	43.9	BE2	900 2200	14	26	48.6
DRE100M2	2.2	7.3 6	2880 3495	26	56.2	BE2	700 1800	14	30.6	61
DRE100L2	3	10.1 8.2	2850 3475	29	68.6	BE2	450 1000	20	33.6	73.3
DRE112M2	4	13.2 10.9	2900 3510	41.3	114	BE5	- 600	28	48.5	119
DRE132M2	5.5	17.9 14.8	2935 3540	60	193	BE5	- 500	55	67.2	198
DRE132MC2	7.5	24.5 20	2940 3555	63	239	BE11	- 380	80	77.5	250

5.3 Global motor, 50/60 Hz, 4-pole, S1

4-pole DRS.. motors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS71S4	0.18	1.25 1.01	1380 1700	0.64 0.45	0.70 0.69	IE1	59.1 66.5	65.3 67.7	66.6 68.0	3.5 4.2	1.8 1.9	1.8 1.9	2.1 2.5
DRS71S4	0.25	1.72 1.4	1390 1700	0.67 0.62	0.75 0.69	IE1	68.6 70.0	72.6 74.3	72.6 74.0	4.1 4.2	1.9 1.9	1.9 1.9	2.3 2.5
DRS71S4	0.37	2.55 2.1	1380 1700	1.14 1.06	0.70 0.65	-	59.1 66.5	65.3 67.7	66.6 68.0	3.5 4.4	1.8 2.1	1.8 2.1	2.1 2.8
DRS71M4	0.55	3.85 3.1	1360 1700	1.55 1.31	0.72 0.68	IE1	69.1 72.8	71.9 76.1	70.6 74.0	3.6 4.5	2.1 2.4	2.1 2.3	2.2 2.6

4-pole DRS.. motors/brakemotors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS71S4	0.18	1.25 1.01	1380 1700	7.8	5.13	BE05	6000 9500	5	10.2	6.43
DRS71S4	0.25	1.72 1.4	1390 1700	7.8	5.13	BE05	6000 9500	5	10.2	6.43
DRS71S4	0.37	2.55 2.1	1380 1700	7.8	5.13	BE05	6000 9500	5	10.2	6.43
DRS71M4	0.55	3.85 3.1	1360 1700	9.1	7.21	BE1	4100 11000	10	11.7	8.51

4pole DRE.. motors for 400 V, 50/60 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRE80S4	0.37	2.45 2.05	1435 1740	0.87 0.79	0.77 0.73	IE2	76.5 78.2	78.5 80.2	78.8 80.0	4.9 6.9	2.6 3.0	2.1 2.4	2.9 3.7
DRE80M4	0.55	3.65 3	1445 1755	1.27 1.15	0.76 0.73	IE2	79.7 80.1	82.0 82.2	82.3 82.5	6.7 8.1	3.1 3.7	2.2 2.6	3.4 4.2
DRE80M4	0.75	5 4.1	1435 1745	1.68 1.52	0.79 0.76	IE2	79.2 79.6	81.3 82.9	81.0 82.5	6.2 7.6	2.9 3.3	2.1 2.3	3.1 3.9
DRE90M4	1.1	7.4 6.1	1420 1735	2.45 2.1	0.79 0.77	IE2	82.5 82.2	83.5 84.5	82.4 84.0	5.9 7.3	2.9 3.2	2.3 2.6	3.0 3.4
DRE90L4	1.5	10 8.2	1430 1745	3.35 2.85	0.77 0.76	IE2	83.5 83.6	84.7 85.8	84.0 85.5	6.6 7.9	3.2 3.7	2.8 3.3	3.4 4.0
DRE100L4	2.2	14.6 12	1440 1750	4.7 4.2	0.77 0.75	IE2	85.8 85.8	87.5 87.9	87.1 87.5	7.7 8.9	4.2 4.8	3.2 3.3	3.7 4.9
DRE100LC4	3	19.7 16.3	1455 1760	6.2 5.3	0.81 0.80	IE2	86.3 86.9	87.1 88.5	86.3 87.5	7.5 9.4	2.7 3.2	2.4 2.7	3.3 4.0
DRE112M4	3	19.7 16.3	1455 1760	6 5.1	0.83 0.82	IE2	87.7 87.0	87.4 88.4	86.5 87.5	7.3 8.8	2.4 2.7	2.0 1.7	3.0 3.5
DRE132S4	4	26 21.5	1460 1765	8 6.7	0.82 0.83	IE2	87.6 88.0	88.2 89.4	87.4 88.5	8.0 8.9	2.7 2.7	2.4 2.2	3.2 3.7
DRE132M4	5.5	36 30	1455 1760	10.5 9	0.85 0.85	IE2	89.8 90.1	89.6 90.8	88.5 89.5	7.7 8.8	2.6 2.5	1.9 1.7	3.1 3.0
DRE132MC4	7.5	48.5 40.5	1470 1775	14.8 13.8	0.82 0.76	IE2	88.9 87.3	89.5 89.5	89.0 89.5	8.2 8.7	2.2 2.1	1.8 1.6	3.2 3.2
DRE160S4	7.5	49 40.5	1465 1770	14.7 12.6	0.82 0.83	IE2	90.3 90.0	90.3 91.0	89.3 90.2	6.5 7.6	2.4 2.8	1.8 2.0	2.5 2.9
DRE160M4	9.2	60 49.5	1470 1775	18.3 15.7	0.80 0.80	IE2	90.4 90.4	90.7 91.6	90.0 91.0	7.7 8.4	2.9 3.3	2.2 2.4	3.0 3.2
DRE160MC4	11	71 59	1475 1780	21.5 18.3	0.81 0.82	IE2	90.3 90.9	90.6 92.0	90.2 91.7	7.7 8.6	2.6 3.2	1.9 2.2	2.8 3.3
DRE180S4	11	71 59	1470 1775	21 18.1	0.83 0.83	IE2	89.5 89.7	90.4 91.4	90.2 91.0	7.2 8.0	2.6 3.1	2.2 2.4	2.9 3.3
DRE180M4	15	97 81	1470 1775	28 24	0.85 0.85	IE2	90.9 89.5	91.5 91.5	91.0 91.7	7.1 7.8	2.4 2.8	2.0 2.1	3.0 3.3

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRE180L4	18.5	120 100	1470 1775	34 29.5	0.85 0.85	IE2	91.4 91.5	92.0 92.7	91.7 92.4	7.1 8.1	2.5 2.9	2.1 2.2	3.0 3.4
DRE180LC4	22	142 118	1480 1780	42 35.5	0.82 0.84	IE2	91.7 91.7	92.2 92.8	91.8 92.4	7.1 8.0	2.3 2.6	1.9 2.0	2.8 3.2
DRE200L4	30	194 161	1475 1780	57 48.5	0.82 0.83	IE2	92.6 92.2	92.9 93.3	92.4 93.0	6.3 7.4	2.1 2.6	1.9 2.1	2.6 2.9
DRE225S4	37	240 198	1477 1780	70 60	0.82 0.83	IE2	93.0 92.4	93.4 93.4	93.0 93.0	7.0 7.9	2.5 3.2	2.0 2.4	3.0 3.2
DRE225M4	45	290 240	1478 1780	84 73	0.83 0.83	IE2	93.5 92.9	93.7 93.8	93.3 93.6	7.3 8.0	2.5 3.3	2.1 2.3	2.9 3.1

4pole DRE.. motors/brakemotors for 400 V, 50/60 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE80S4	0.37	2.45 2.05	1435 1740	11.5	15.9	BE1	3500 9000	10	14.5	17.4
DRE80M4	0.55	3.65 3	1445 1755	14.3	22.3	BE1	3500 9000	10	17.3	23.8
DRE80M4	0.75	5 4.1	1435 1745	14.3	22.3	BE1	3500 9000	10	17.3	23.8
DRE90M4	1.1	7.4 6.1	1420 1735	18.4	36.6	BE2	3000 8000	14	23	41.3
DRE90L4	1.5	10 8.2	1430 1745	21.4	44.9	BE2	3000 8000	20	26	49.6
DRE100L4	2.2	14.6 12	1440 1750	29	69.5	BE5	- 7600	28	34.9	75.5
DRE100LC4	3	19.7 16.3	1455 1760	31.2	91	BE5	- 3800	40	37.1	97
DRE112M4	3	19.7 16.3	1455 1760	41.3	148	BE5	- 3100	40	48.5	152
DRE132S4	4	26 21.5	1460 1765	46.3	191	BE5	- 2800	55	53.5	196
DRE132M4	5.5	36 30	1455 1760	60	258	BE11	- 2000	80	74.5	269
DRE132MC4	7.5	48.5 40.5	1470 1775	63	347	BE11	- 1500	110	77.5	357
DRE160S4	7.5	49 40.5	1465 1770	79.5	366	BE11	- 1100	110	98.2	388
DRE160M4	9.2	60 49.5	1470 1775	88.5	442	BE20	- 1000	150	115.2	493
DRE160MC4	11	71 59	1475 1780	93.5	600	BE20	- 900	150	120.2	651
DRE180S4	11	71 59	1470 1775	121.9	909	BE20	- 900	150	153.9	969
DRE180M4	15	97 81	1470 1775	138.3	1130	BE20	- 800	200	170.3	1190
DRE180L4	18.5	120 100	1470 1775	152.1	1310	BE30	- 590	300	192.1	1450
DRE180LC4	22	142 118	1480 1780	161.1	1700	BE30	- 520	300	201.1	1830
DRE200L4	30	194 161	1475 1780	258	2390	BE32	- 550	400	313	2620
DRE225S4	37	240 198	1477 1780	294.5	2970	BE32	- 320	500	349.5	3200
DRE225M4	45	290 240	1478 1780	315.5	3470	BE32	- 270	600	370.5	3700

5.4 Global motor, 50/60 Hz, 6pole, S1

6-pole DRE.. motors for 400 V, 50/60 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRE71M6	0.25	2.6 2.1	910 1130	0.73 0.65	0.73 0.67	IE2	64.8 66.0	70.0 71.0	68.8 72.0	3.4 4.0	2.0 1.9	2.0 1.9	2.1 2.1
DRE80S6	0.37	3.8 3.1	935 1145	1.19 1.01	0.69 0.63	IE2	67.2 69.0	71.2 73.0	71.5 74.0	3.7 4.5	2.0 2.4	2.0 2.3	2.3 2.8
DRE80M6	0.55	5.6 4.6	935 1145	1.58 1.51	0.69 0.64	IE2	70.5 73.0	74.0 76.5	74.0 77.0	4.4 4.8	2.2 2.5	2.2 2.5	2.4 3.0
DRE90L6	0.75	7.6 6.3	940 1145	2.05 1.85	0.65 0.64	IE2	78.7 80.5	80.5 82.5	80.0 81.5	4.6 5.1	2.4 2.4	2.4 2.4	2.8 2.9
DRE100LC6	1.1	10.8 9	970 1170	2.8 2.6	0.68 0.64	IE2	78.5 82.0	79.4 85.4	78.7 85.5	5.9 6.7	2.3 2.7	2.2 2.4	3.2 3.7
DRE112M6	1.5	14.8 12.2	970 1170	3.5 3.7	0.72 0.69	IE2	80.6 85.4	81.5 87.1	80.9 86.5	5.4 5.9	1.9 2.0	1.6 1.8	2.7 3.0
DRE132M6	2.2	21.5 18	970 1170	5.2 4.7	0.70 0.69	IE2	83.2 86.0	84.2 88.0	83.0 87.5	5.9 6.8	2.4 2.6	2.1 2.3	3.2 3.9
DRE132M6	3	29.5 24.5	970 1170	7.3 6.6	0.67 0.68	IE2	84.9 87.2	85.8 88.5	84.4 87.5	6.1 6.9	2.5 2.8	2.2 2.4	3.4 4.0
DRE132M6	4	40 33	960 1165	9.5 8.5	0.71 0.72	IE2	85.3 87.2	86.2 88.3	85.4 87.5	6.1 5.9	2.8 2.2	2.6 2.0	3.2 3.2
DRE160M6	5.5	54 45	965 1170	12.6 10.5	0.72 0.72	IE2	86.4 88.3	87.4 89.8	86.8 89.5	5.8 6.2	2.3 2.2	2.0 1.9	2.8 2.9

6-pole DRE.. motors/brakemotors for 400 V, 50/60 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE71M6	0.25	2.6 2.1	910 1130	9.1	11.9	BE05	6600 15000	5	11.5	13.2
DRE80S6	0.37	3.8 3.1	935 1145	11.5	15.9	BE1	6000 14000	10	14.5	17.4
DRE80M6	0.55	5.6 4.6	935 1145	14.3	22.3	BE2	4300 10000	14	18	26.8
DRE90L6	0.75	7.6 6.3	940 1145	21.4	44.6	BE2	3500 8000	20	26	49.2
DRE100LC6	1.1	10.8 9	970 1170	31.2	91	BE5	- 5000	40	37.1	97
DRE112M6	1.5	14.8 12.2	970 1170	41.3	148	BE5	- 4000	55	48.5	152
DRE132M6	2.2	21.5 18	970 1170	60	251	BE11	- 3300	80	74.5	261
DRE132M6	3	29.5 24.5	970 1170	60	251	BE11	- 3300	80	74.5	261
DRE132M6	4	40 33	960 1165	60	251	BE11	- 3300	80	74.5	261
DRE160M6	5.5	54 45	965 1170	88.5	634	BE11	- 2700	110	107.2	656

5.5 Standard and energy-efficient motor 50 Hz, 2-pole, S1

2-pole motors DR63, DRS.. for 400 V (380 – 420 V), 50 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DR63S2	0.18	0.63	2720	0.45	0.46	0.88	-	-	-	-	4.2	2.4 2.2	-
DR63M2	0.25	0.9	2660	0.65	0.66	0.86	-	-	-	-	3.5	2.2 1.9	-
DR63L2	0.37	1.3	2650	0.92	1.0	0.87	-	-	-	-	3.5	2.1 1.9	-
DRS71S2	0.37	1.31	2700	1.01	1.06	0.89	IE1	72.0	73.2	70.5	3.2	2.2 1.9	2.0
DRS71M2	0.55	1.87	2810	1.37	1.42	0.79	IE1	70.7	73.5	72.9	4.9	2.9 2.1	2.3
DRS80S2	0.75	2.55	2800	1.73	1.78	0.84	IE1	71.3	74.6	74.4	4.6	2.5 2.3	2.5
DRS80M2	1.1	3.7	2840	2.35	2.4	0.88	IE1	80.2	77.7	76.5	6.0	2.7 2.5	2.8
DRS90M2	1.5	5.1	2830	3.1	3.2	0.89	IE1	83.3	80.0	78.3	5.9	2.7 2.6	2.7
DRS90L2	2.2	7.4	2820	4.45	4.6	0.89	IE1	84.9	82.8	80.5	5.8	2.9 2.5	2.6
DRS100M2	3	10.1	2840	5.8	6	0.91	IE1	86.9	84.6	82.5	6.4	3.1 2.8	2.8
DRS100LC2	4	13.2	2900	7.8	8	0.88	IE1	86.9	85.6	84.2	7.7	2.7 2.1	3.0
DRS112M2	4	13.2	2900	7.6	7.9	0.89	IE1	87.7	85.4	84.3	6.3	2.3 2.1	2.8
DRS132S2	5.5	18.2	2890	10.2	10.7	0.91	IE1	89.2	87.0	85.5	6.5	2.3 2.1	2.8
DRS132M2	7.5	24.5	2910	13.7	14.4	0.91	IE1	90.0	87.8	86.5	7.3	2.5 2.3	3.1
DRS132M2	9.2	30.5	2900	16.9	17.6	0.89	IE1	90.2	88.8	87.2	6.9	2.5 2.3	3.0

2-pole motors /brakemotors DR63, DRS.. for 400 V (380 – 420 V), 50 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DR63S2	0.18	0.63	2720	6.2	3.6	BR03	5000 -	1.6	8.0	4.8
DR63M2	0.25	0.9	2660	6.2	3.6	BR03	4500 -	2.4	8.0	4.8
DR63L2	0.37	1.3	2650	6.7	4.4	BR03	4000 -	3.2	8.5	5.6
DRS71S2	0.37	1.31	2700	7.8	5.13	BE05	2450 4150	5	10	6.43
DRS71M2	0.55	1.87	2810	9.1	7.21	BE05	2000 4500	3.5	12	8.51
DRS80S2	0.75	2.55	2800	12	15.3	BE05	1400 3300	5	14	16.8
DRS80M2	1.1	3.7	2840	14	21.7	BE1	1300 3000	7	17	23.2
DRS90M2	1.5	5.1	2830	18	35.7	BE1	1100 2700	10	21	37.3
DRS90L2	2.2	7.4	2820	21	43.9	BE2	900 2200	14	26	48.6
DRS100M2	3	10.1	2840	26	56.2	BE2	700 1800	20	31	61

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS100LC2	4	13.2	2900	31	90	BE5	- 700	28	37	96
DRS112M2	4	13.2	2900	41	114	BE5	- 600	28	48	119
DRS132S2	5.5	18.2	2890	44	147	BE5	- 500	40	51	151
DRS132M2	7.5	24.5	2910	60	193	BE5	- 500	55	67	198
DRS132M2	9.2	30.5	2900	60	193	BE5	- 500	55	67	198

2-pole motors DRE.. for 400 V (380 – 420 V), 50 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRE80M2	0.75	2.5	2890	1.54	1.6	0.89	IE2	81.1	79.2	79.2	7.9	3.4 3.0	3.4
DRE90M2	1.1	3.65	2870	2.2	2.3	0.89	IE2	83.5	82.2	81.2	7.2	3.2 3.0	3.2
DRE90M2	1.5	5.1	2830	2.95	3.05	0.89	IE2	83.3	83.5	81.8	5.9	2.7 2.6	2.7
DRE100M2	2.2	7.3	2880	4.15	4.3	0.91	IE2	87.4	85.6	84.5	8.2	3.8 3.3	3.4
DRE100L2	3	10.1	2850	5.5	5.7	0.93	IE2	88.0	87.4	85.6	7.2	3.5 3.1	3.1
DRE112M2	4	13.2	2900	7.5	7.8	0.89	IE2	87.7	87.6	86.5	6.3	2.3 2.1	2.8
DRE132S2	5.5	18.2	2890	10	10.5	0.91	IE2	89.2	88.9	87.4	6.5	2.3 2.1	2.8
DRE132M2	7.5	24.5	2910	13.5	14.3	0.91	IE2	90.0	89.8	88.5	7.3	2.5 2.3	3.1
DRE132MC2	9.2	30	2935	17.2	17.9	0.87	IE2	89.7	89.7	88.8	7.2	2.2 1.9	2.8

2-pole motors/brakemotors DRE.. for 400 V (380 – 420 V), 50 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE80M2	0.75	2.5	2890	14	21.7	BE05	1300 3200	5	17	23.2
DRE90M2	1.1	3.65	2870	18	35.7	BE1	1100 2700	10	21	37.3
DRE90M2	1.5	5.1	2830	18	35.7	BE1	1100 2700	10	21	37.3
DRE100M2	2.2	7.3	2880	26	56.2	BE2	700 1800	14	31	61
DRE100L2	3	10.1	2850	29	68.6	BE2	450 1000	20	34	73.3
DRE112M2	4	13.2	2900	41	114	BE5	- 600	28	48	119
DRE132S2	5.5	18.2	2890	46	147	BE5	- 500	40	54	151
DRE132M2	7.5	24.5	2910	60	193	BE5	- 500	55	67	198
DRE132MC2	9.2	30	2935	63	239	BE11	- 380	80	78	250

2-pole motors DRP.. for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRP80M2	0.75	2.5	2890	1.46	1.52	0.89	IE3	81.1	83.2	83.2	7.9	3.4 3.0	3.4
DRP90M2	1.1	3.65	2870	2.1	2.2	0.89	IE3	83.5	84.7	83.7	7.2	3.2 3.0	3.2
DRP100M2	1.5	4.95	2890	2.65	2.85	0.93	IE3	87.4	87.9	87.1	8.7	3.8 3.3	3.5
DRP100M2	2.2	7.3	2880	4	4.15	0.91	IE3	87.4	87.8	86.7	8.2	3.8 3.3	3.4
DRP100LC2	3	9.8	2920	5.5	5.7	0.90	IE3	87.4	88.0	87.1	9.1	3.0 2.4	3.5
DRP112M2	3	9.8	2920	5.5	5.8	0.89	IE3	87.5	88.6	88.2	7.4	2.6 2.4	3.2
DRP132S2	4	13.1	2910	7.2	7.6	0.91	IE3	88.9	89.2	88.2	7.3	2.5 2.2	3.1
DRP132M2	5.5	17.9	2935	9.8	10.3	0.90	IE3	90.2	90.7	90.1	8.7	2.9 2.5	3.5

2-pole motors/brakemotors DRP.. for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRP80M2	0.75	2.5	2890	14	21.7	BE05	1300 3200	5	17	23.2
DRP90M2	1.1	3.65	2870	18	35.7	BE1	1100 2700	7	21	37.3
DRP100M2	1.5	4.95	2890	26	56.2	BE2	700 1800	14	31	61
DRP100M2	2.2	7.3	2880	26	56.2	BE2	700 1800	14	31	61
DRP100LC2	3	9.8	2920	31	90	BE2	300 700	20	36	94.7
DRP112M2	3	9.8	2920	41	114	BE5	- 600	20	48	119
DRP132S2	4	13.1	2910	46	147	BE5	- 500	28	54	151
DRP132M2	5.5	17.9	2935	60	193	BE5	- 500	40	67	198

5.6 Standard and energy-efficient motor, 50 Hz, 4-pole, S1

4-pole motors DR63, DRS.. for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DT56M4	0.09	0.66	1300	0.29	0.31	0.68	-	-	-	-	2.6	2.1 1.8	-
DT56L4	0.12	0.88	1300	0.42	0.46	0.68	-	-	-	-	2.6	2.2 1.9	-
DR63S4	0.12	0.83	1380	0.39	0.39	0.69	-	-	-	-	3.3	2.4 2.2	-
DR63M4	0.18	1.3	1320	0.55	0.55	0.78	-	-	-	-	2.9	1.8 1.7	-
DR63L4	0.25	1.8	1300	0.68	0.73	0.81	-	-	-	-	2.8	1.8 1.7	-
DRS71S4	0.18	1.25	1380	0.64	0.66	0.70	IE1	59.1	65.3	66.6	3.5	1.8 1.8	2.1
DRS71S4	0.25	1.72	1390	0.67	0.69	0.75	IE1	68.6	72.6	72.6	4.1	1.9 1.9	2.3
DRS71S4	0.37	2.55	1380	1.14	1.24	0.70	IE1	59.1	65.3	66.6	3.5	1.8 1.8	2.1
DRS71M4	0.55	3.85	1360	1.55	1.62	0.72	IE1	69.1	71.9	70.6	3.6	2.1 2.1	2.2
DRS80S4	0.75	5.1	1400	1.8	1.82	0.81	IE1	74.6	76.6	75.3	4.3	1.9 1.9	2.2
DRS80M4	1.1	7.4	1410	2.4	2.5	0.84	IE1	77.7	78.6	77.0	5.1	2.2 1.7	2.3
DRS90M4	1.5	10.3	1395	3.3	3.4	0.82	IE1	82.0	82.0	79.6	5.0	2.3 2.0	2.5
DRS90L4	2.2	15	1400	4.85	4.95	0.81	IE1	82.9	83.1	81.1	5.1	2.5 2.2	2.5
DRS100M4	3	20.5	1400	6.4	6.5	0.82	IE1	85.2	84.7	82.4	5.3	2.8 2.4	2.8
DRS100LC4	4	26.5	1440	8.9	9.1	0.78	IE1	83.2	84.3	83.2	6.5	2.5 2.3	3.1
DRS112M4	4	26.5	1435	8.1	8.4	0.84	IE1	86.1	85.6	83.8	6.0	2.0 1.7	2.5
DRS132S4	5.5	36.5	1445	11.1	11.6	0.82	IE1	86.4	86.7	85.7	6.7	2.4 2.1	2.8
DRS132M4	7.5	49.5	1445	14.4	15.1	0.85	IE1	90.0	89.1	87.1	6.6	2.4 1.9	2.7
DRS132MC4	9.2	60	1465	18.6	19.3	0.81	IE1	87.9	88.5	87.6	7.2	2.1 1.6	2.9
DRS160S4	9.2	60	1460	18.9	19.2	0.79	IE1	87.9	89.0	88.0	6.4	2.5 2.0	2.6
DRS160M4	11	72	1460	22	22.5	0.81	IE1	89.2	89.1	88.0	6.8	2.7 2.3	2.8
DRS160MC4	15	97	1470	30	31	0.80	IE1	90.3	90.2	89.1	6.3	2.1 1.7	2.4
DRS180S4	15	98	1460	29	29.5	0.83	IE1	90.0	90.3	89.5	6.2	2.3 2.0	2.6
DRS180M4	18.5	121	1465	34.5	35.5	0.85	IE1	90.6	90.8	90.0	6.5	2.2 1.8	2.7
DRS180L4	22	143	1465	41.5	42.5	0.84	IE1	90.9	91.2	90.5	6.9	2.4 2.0	2.8
DRS180LC4	30	195	1470	57	59	0.84	IE1	92.2	92.0	90.9	5.6	1.8 1.5	2.2
DRS200L4	30	194	1475	57	59	0.82	IE1	91.6	91.9	91.3	6.4	2.1 1.9	2.6
DRS225S4	37	240	1475	70	72	0.82	IE1	92.2	92.0	91.6	7.1	2.4 1.9	3.0

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRS225M4	45	290	1480	84	86	0.83	IE1	92.8	92.7	92.3	7.4	2.5 2.2	2.9
DRS225MC4	55	355	1480	106	108	0.81	IE1	92.4	92.8	92.4	6.8	2.4 1.8	2.4
DRS250M4	55	355	1479	105	108	0.82	IE1	92.1	92.5	92.7	6.9	3.0 2.1	2.6
DRS280S4	75	485	1480	140	144	0.83	IE1	92.3	93.0	93.4	7.8	3.0 2.1	2.6
DRS280M4	90	580	1478	170	172	0.82	IE1	93.2	93.7	93.6	7.0	3.4 2.3	2.8
DRS315K4	110	710	1482	200	210	0.84	IE1	93.7	94.2	94.0	6.1	2.2 1.7	2.5
DRS315S4	132	850	1484	230	240	0.86	IE1	93.4	94.2	94.2	6.5	2.4 1.9	2.7
DRS315M4	160	1030	1483	280	290	0.87	IE1	94.6	94.8	94.6	6.9	2.1 1.7	2.3
DRS315L4	200	1290	1481	350	375	0.88	IE1	94.7	94.9	94.6	6.4	2.1 1.7	2.3

4-pole motors/brakemotors DR.., DRS.. for 400 V (380 – 420 V), 50 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{MoL BE} 10 ⁻⁴ kgm ²
DT56M4	0.09	0.66	1300	- ¹⁾	1.1	BMG02	10000 -	0.8	- ¹⁾	1.2
DT56L4	0.12	0.88	1300	- ¹⁾	1.1	BMG02	10000 -	1.2	- ¹⁾	1.2
DR63S4	0.12	0.83	1380	6.1	3.6	BR03	10000 -	2.4	7.6	4.8
DR63M4	0.18	1.3	1320	6.1	3.6	BR03	10000 -	3.2	7.6	4.8
DR63L4	0.25	1.8	1300	6.7	4.4	BR03	10000 -	3.2	8.2	5.6
DRS71S4	0.18	1.25	1380	7.8	5.13	BE05	6000 9500	5	10	6.43
DRS71S4	0.25	1.72	1390	7.8	5.13	BE05	6000 9500	5	10	6.43
DRS71S4	0.37	2.55	1380	7.8	5.13	BE05	6000 9500	5	10	6.43
DRS71M4	0.55	3.85	1360	9.1	7.21	BE1	4100 11000	10	12	8.51
DRS80S4	0.75	5.1	1400	12	15.9	BE1	3500 9000	10	14	17.4
DRS80M4	1.1	7.4	1410	14	22.3	BE2	3500 9000	14	18	26.8
DRS90M4	1.5	10.3	1395	18	36.6	BE2	2900 7500	20	23	41.3
DRS90L4	2.2	15	1400	21	44.9	BE5	2300 5600	40	27	50.9
DRS100M4	3	20.5	1400	26	57.2	BE5	- 8500	40	32	63.2
DRS100LC4	4	26.5	1440	31	91	BE5	- 3800	55	37	97
DRS112M4	4	26.5	1435	41	152	BE5	- 3100	55	48	157
DRS132S4	5.5	36.5	1445	44	196	BE11	- 2800	80	59	206
DRS132M4	7.5	49.5	1445	60	258	BE11	- 2000	110	74	269

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS132MC4	9.2	60	1465	63	347	BE11	- 1500	110	78	357
DRS160S4	9.2	60	1460	80	366	BE20	- 1100	150	105	417
DRS160M4	11	72	1460	92	442	BE20	- 1000	150	120	493
DRS160MC4	15	97	1470	94	609	BE20	- 900	200	120	661
DRS180S4	15	98	1460	120	909	BE20	- 900	200	155	969
DRS180M4	18.5	121	1465	140	1130	BE30	- 800	300	180	1260
DRS180L4	22	143	1465	150	1310	BE30	- 590	300	190	1450
DRS180LC4	30	195	1470	160	1700	BE32	- 520	400	205	1930
DRS200L4	30	194	1475	260	2390	BE32	- 550	400	315	2620
DRS225S4	37	240	1475	295	2970	BE32	- 320	500	350	3200
DRS225M4	45	290	1480	315	3470	BE32	- 270	600	370	3700
DRS225MC4	55	355	1480	330	4390	BE32	- 200	600	385	4620
DRS250M4	55	355	1479	440	6360	BE62	- 200	800	530	6950
DRS280S4	75	485	1480	530	8930	BE62	- 150	1000	620	9520
DRS280M4	90	580	1478	530	8990	BE62	- 100	1200	620	9580
DRS315K4	110	710	1482	850	18500	BE122	- 65	1600	980	19600
DRS315S4	132	850	1484	930	22600	BE122	- 50	2000	1060	23700
DRS315M4	160	1030	1483	1080	28000	BE122	- 35	2000	1210	29100
DRS315L4	200	1290	1481	1160	32000	BE122	- 25	2000	1290	33100

1) only available as gearmotors

4-pole motors DRE.. for 400 V (380 – 420 V), 50 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRE80S4	0.37	2.45	1435	0.87	-	0.77	IE2	76.5	78.5	78.8	4.9	2.6 2.1	2.9
DRE80M4	0.55	3.65	1445	1.27	-	0.76	IE2	79.7	82.0	82.3	6.7	3.1 2.2	3.4
DRE80M4	0.75	5	1435	1.68	1.75	0.79	IE2	79.2	81.3	81.0	6.2	2.9 2.1	3.1
DRE90M4	1.1	7.4	1420	2.45	2.55	0.79	IE2	82.5	83.5	82.4	5.9	2.9 2.3	3.0
DRE90L4	1.5	10	1430	3.35	3.45	0.77	IE2	83.5	84.7	84.0	6.6	3.2 2.8	3.4
DRE100M4	2.2	14.7	1425	4.6	4.7	0.80	IE2	86.3	86.7	85.4	6.4	3.3 2.7	3.2
DRE100LC4	3	19.7	1455	6.2	6.3	0.81	IE2	86.3	87.1	86.3	7.5	2.7 2.4	3.3

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Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRE112M4	3	19.7	1455	6	6.2	0.83	IE2	87.7	87.4	86.5	7.3	2.4 2.0	3.0
DRE132S4	4	26	1460	8	8.2	0.82	IE2	87.6	88.2	87.4	8.0	2.7 2.4	3.2
DRE132M4	5.5	36	1455	10.5	11	0.85	IE2	89.8	89.6	88.5	7.7	2.6 1.9	3.1
DRE132MC4	7.5	48.5	1470	14.8	15.2	0.82	IE2	88.9	89.5	89.0	8.2	2.2 1.8	3.2
DRE160S4	7.5	49	1465	14.7	15.3	0.82	IE2	90.3	90.3	89.3	6.5	2.4 1.8	2.5
DRE160M4	9.2	60	1470	18.3	18.7	0.80	IE2	90.4	90.7	90.0	7.7	2.9 2.2	3.0
DRE160MC4	11	71	1475	21.5	22	0.81	IE2	90.3	90.6	90.2	7.7	2.6 1.9	2.8
DRE180S4	11	71	1470	21	21.5	0.83	IE2	89.5	90.4	90.2	7.2	2.6 2.2	2.9
DRE180M4	15	97	1470	28	29	0.85	IE2	90.9	91.5	91.0	7.1	2.4 2.0	3.0
DRE180L4	18.5	120	1470	34	35.5	0.85	IE2	91.4	92.0	91.7	7.1	2.5 2.1	3.0
DRE180LC4	22	142	1480	42	43	0.82	IE2	91.7	92.2	91.8	7.1	2.3 1.9	2.8
DRE200L4	30	194	1475	57	59	0.82	IE2	92.6	92.9	92.4	6.3	2.1 1.9	2.6
DRE225S4	37	240	1477	70	72	0.82	IE2	93.0	93.4	93.0	7.0	2.5 2.0	3.0
DRE225M4	45	290	1478	84	86	0.83	IE2	93.5	93.7	93.3	7.3	2.5 2.1	2.9
DRE250M4	55	355	1479	104	107	0.82	IE2	93.0	93.8	93.6	6.9	3.0 2.1	2.6
DRE280S4	75	485	1480	138	143	0.83	IE2	93.3	94.1	94.4	7.8	3.0 2.1	2.6
DRE280M4	90	580	1478	170	172	0.82	IE2	93.7	94.5	94.4	7.0	3.4 2.3	2.8
DRE315K4	110	710	1483	196	205	0.85	IE2	94.4	94.9	94.7	6.0	2.3 1.8	2.6
DRE315S4	132	850	1483	230	235	0.87	IE2	94.3	95.0	95.0	6.6	2.4 2.0	2.7
DRE315M4	160	1030	1484	275	285	0.88	IE2	95.3	95.5	95.3	6.8	2.2 1.8	2.4
DRE315L4	200	1290	1482	345	360	0.89	IE2	95.4	95.7	95.3	6.3	2.2 1.8	2.4

4-pole motors/brakemotors DRE.. for 400 V (380 – 420 V), 50 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE80S4	0.37	2.45	1435	12	15.9	BE1	3500 9000	10	14	17.4
DRE80M4	0.55	3.65	1445	14	22.3	BE1	3500 9000	10	17	23.8
DRE80M4	0.75	5	1435	14	22.3	BE1	3500 9000	10	17	23.8
DRE90M4	1.1	7.4	1420	18	36.6	BE2	3000 8000	14	23	41.3
DRE90L4	1.5	10	1430	21	44.9	BE2	3000 8000	20	26	49.6
DRE100M4	2.2	14.7	1425	26	57.2	BE5	- 8000	55	32	63.2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE100LC4	3	19.7	1455	31	91	BE5	- 3800	40	37	97
DRE112M4	3	19.7	1455	41	148	BE5	- 3100	40	48	152
DRE132S4	4	26	1460	46	191	BE5	- 2800	55	54	196
DRE132M4	5.5	36	1455	60	258	BE11	- 2000	80	74	269
DRE132MC4	7.5	48.5	1470	63	347	BE11	- 1500	110	78	357
DRE160S4	7.5	49	1465	80	366	BE11	- 1100	110	98	388
DRE160M4	9.2	60	1470	88	442	BE20	- 1000	150	115	493
DRE160MC4	11	71	1475	94	600	BE20	- 900	150	120	651
DRE180S4	11	71	1470	120	909	BE20	- 900	150	155	969
DRE180M4	15	97	1470	140	1130	BE20	- 800	200	170	1190
DRE180L4	18.5	120	1470	150	1310	BE30	- 590	300	190	1450
DRE180LC4	22	142	1480	160	1700	BE30	- 520	300	200	1830
DRE200L4	30	194	1475	260	2390	BE32	- 550	400	315	2620
DRE225S4	37	240	1477	295	2970	BE32	- 320	500	350	3200
DRE225M4	45	290	1478	315	3470	BE32	- 270	600	370	3700
DRE250M4	55	355	1479	440	6360	BE62	- 200	800	530	6950
DRE280S4	75	485	1480	530	8930	BE62	- 150	1000	620	9520
DRE280M4	90	580	1478	530	8990	BE62	- 100	1200	620	9580
DRE315K4	110	710	1483	850	18500	BE122	- 65	1600	980	19600
DRE315S4	132	850	1483	930	22600	BE122	- 50	2000	1060	23700
DRE315M4	160	1030	1484	1080	28000	BE122	- 35	2000	1210	29100
DRE315L4	200	1290	1482	1160	32000	BE122	- 25	2000	1290	33100

4-pole motors DRP.. for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRP90M4	0.75	4.95	1450	1.81	1.86	0.72	IE3	79.8	82.7	83.3	7.3	3.7 3.1	3.9
DRP90L4	1.1	7.3	1440	2.4	2.5	0.78	IE3	84.8	86.0	85.3	6.8	3.2 2.7	3.4
DRP100M4	1.5	9.9	1440	3.2	3.3	0.79	IE3	86.4	87.2	86.6	7.4	3.6 3.1	3.7
DRP100L4	2.2	14.6	1440	4.75	4.85	0.77	IE3	86.4	87.5	87.1	7.7	4.2 3.2	3.7
DRP112M4	3	19.7	1455	6	6.2	0.82	IE3	88.2	88.7	88.0	7.3	2.4 2.0	3.0

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRP132M4	4	26	1465	7.7	8	0.84	IE3	89.9	90.4	89.7	8.9	2.6 2.0	3.5
DRP132MC4	5.5	35.5	1475	11	11.4	0.84	IE3	90.2	90.8	90.3	8.8	2.3 1.9	3.3
DRP160S4	5.5	35.5	1475	10.9	11.2	0.80	IE3	90.3	91.1	90.7	8.0	3.0 2.2	3.1
DRP160M4	7.5	48.5	1470	14.7	15.2	0.81	IE3	90.9	91.3	90.7	8.1	3.1 2.3	3.0
DRP160MC4	9.2	60	1475	17.5	18.2	0.84	IE3	91.9	92.0	91.3	7.6	2.5 1.8	2.6
DRP180S4	9.2	60	1475	17.5	18.1	0.82	IE3	91.0	92.0	92.0	7.8	2.8 2.3	3.2
DRP180M4	11	71	1475	20.5	21.5	0.84	IE3	91.2	92.5	92.0	8.1	2.9 2.2	3.3
DRP180L4	15	97	1475	27.5	28.5	0.84	IE3	92.6	93.1	92.7	7.7	2.7 2.0	3.2
DRP180LC4	18.5	119	1480	35	36	0.82	IE3	92.7	93.4	93.2	8.0	2.6 2.0	3.1
DRP200L4	18.5	119	1483	34.5	36	0.83	IE3	92.7	93.5	93.3	7.8	2.6 2.2	3.0
DRP200L4	22	142	1482	41	42.5	0.83	IE3	92.7	93.5	93.4	7.9	2.7 2.3	3.0
DRP225S4	30	194	1480	55	57	0.85	IE3	94.0	94.3	93.9	7.4	2.6 2.2	2.8
DRP225M4	37	240	1482	69	71	0.83	IE3	93.5	94.1	94.0	8.4	2.9 2.6	3.2
DRP250M4	45	290	1482	85	88	0.81	IE3	93.6	93.7	94.3	7.6	3.2 2.1	3.2
DRP280S4	55	355	1482	100	103	0.84	IE3	94.8	95.2	95.1	8.0	3.1 2.1	2.6
DRP280M4	75	485	1479	138	142	0.83	IE3	95.2	95.4	95.0	7.2	3.2 2.1	2.6
DRP315K4	90	580	1484	159	169	0.86	IE3	0.0	95.1	95.2	6.7	2.4 1.9	2.7
DRP315S4	110	710	1486	192	200	0.87	IE3	0.0	95.6	95.5	7.1	2.3 1.8	2.5
DRP315M4	132	850	1488	230	240	0.87	IE3	94.7	95.6	95.6	8.1	2.5 2.0	2.8
DRP315L4	160	1030	1488	275	280	0.88	IE3	95.5	96.0	96.1	8.0	2.8 2.2	3.1

4-pole motors/brakemotors DRP.. for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRP90M4	0.75	4.95	1450	18	36.6	BE1	2900 7500	10	21	38.2
DRP90L4	1.1	7.3	1440	21	44.9	BE2	2300 5600	14	26	49.6
DRP100M4	1.5	9.9	1440	26	57.2	BE2	- 8500	20	31	61.9
DRP100L4	2.2	14.6	1440	29	69.5	BE5	- 7600	28	35	75.5
DRP112M4	3	19.7	1455	41	148	BE5	- 3100	40	48	152
DRP132M4	4	26	1465	60	258	BE5	- 2000	55	67	263
DRP132MC4	5.5	35.5	1475	63	347	BE11	- 1500	80	78	357

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRP160S4	5.5	35.5	1475	80	366	BE11	- 1100	80	98	388
DRP160M4	7.5	48.5	1470	88	442	BE11	- 1000	110	105	464
DRP160MC4	9.2	60	1475	94	600	BE20	- 900	150	120	651
DRP180S4	9.2	60	1475	120	899	BE20	- 900	150	155	959
DRP180M4	11	71	1475	140	1120	BE20	- 800	150	170	1180
DRP180L4	15	97	1475	150	1300	BE20	- 590	200	185	1360
DRP180LC4	18.5	119	1480	160	1690	BE30	- 520	300	200	1820
DRP200L4	18.5	119	1483	260	2390	BE30	- 550	300	310	2520
DRP200L4	22	142	1482	260	2390	BE30	- 550	300	310	2520
DRP225S4	30	194	1480	290	2970	BE32	- 320	400	345	3200
DRP225M4	37	240	1482	315	3470	BE32	- 270	500	370	3700
DRP250M4	45	290	1482	445	6330	BE60	- 200	600	520	6670
DRP280S4	55	355	1482	520	8900	BE62	- 150	800	600	9500
DRP280M4	75	485	1479	530	8900	BE62	- 100	1000	620	9500
DRP315K4	90	580	1484	850	18500	BE122	- 65	1200	980	19600
DRP315S4	110	710	1486	930	22600	BE122	- 50	1600	1060	23700
DRP315M4	132	850	1488	1080	28000	BE122	- 35	2000	1210	29100
DRP315L4	160	1030	1488	1160	32000	BE122	- 25	2000	1290	33100

5.7 Standard and energy-efficient motor, 50 Hz, 6-pole, S1

6-pole DR63, DRS.. motors for 400 V (380 – 420 V), 50 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DR63S6	0.09	0.95	900	0.38	0.42	0.64	-	-	-	-	2.2	1.8 1.6	-
DR63M6	0.12	1.2	900	0.58	0.62	0.65	-	-	-	-	2.1	1.8 1.7	-
DR63L6	0.18	2	870	0.78	0.81	0.70	-	-	-	-	2.2	1.6 1.5	-
DRS71S6	0.25	2.65	895	0.83	0.86	0.70	IE1	55.3	61.4	62.2	2.7	1.7 1.7	2.0
DRS71M6	0.37	3.9	905	1.13	1.16	0.71	IE1	61.9	66.4	66.5	3.1	1.9 1.9	2.0
DRS80S6	0.55	5.7	915	1.64	1.66	0.71	IE1	64.1	68.2	67.9	3.4	1.8 1.8	2.1
DRS80M6	0.75	7.8	915	2.15	2.15	0.71	IE1	68.3	71.6	70.7	3.6	2.0 1.9	2.2
DRS90L6	1.1	11.3	930	3.1	3.15	0.68	IE1	77.5	76.3	75.0	4.2	2.3 2.3	2.5
DRS100M6	1.5	15.5	925	4.25	4.25	0.68	IE1	76.0	77.3	75.7	4.2	2.7 2.7	2.7
DRS100LC6	2.2	22	955	5.5	5.6	0.71	IE1	80.1	80.8	80.0	5.1	2.2 2.2	2.7
DRS112M6	2.2	22	955	5.4	5.5	0.74	IE1	81.0	80.5	79.3	5.5	2.1 1.8	2.7
DRS112M6	3	30.5	945	7	7.2	0.76	IE1	84.6	83.0	81.0	5.1	1.9 1.6	2.5
DRS132S6	4	40.5	940	9.8	10.2	0.76	IE1	85.1	84.2	81.7	4.3	2.1 1.9	2.4
DRS132MC6	5.5	54	970	12.2	12.4	0.76	IE1	87.2	86.6	85.5	5.8	1.9 1.7	2.7
DRS160S6	5.5	55	960	12.9	13.1	0.73	IE1	85.5	85.4	84.4	5.2	2.0 1.8	2.6
DRS160M6	7.5	75	955	17.3	17.6	0.73	IE1	86.8	87.1	85.9	5.1	2.2 1.9	2.5

6-pole DR63, DRS.. motors/brakemotors for 400 V (380 – 420 V), 50 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DR63S6	0.09	0.95	900	6.0	5.4	BR03	20,000 -	2.5	7.5	6.6
DR63M6	0.12	1.2	900	6.0	5.4	BR03	20,000 -	3.2	7.5	6.6
DR63L6	0.18	2	870	6.6	6.8	BR03	20,000 -	3.2	8.1	8.0
DRS71S6	0.25	2.65	895	7.8	8.29	BE05	7000 16,000	5	10	9.59
DRS71M6	0.37	3.9	905	9.1	11.9	BE1	6600 15000	10	12	13.2
DRS80S6	0.55	5.7	915	12	15.9	BE2	6000 14000	20	15	20.4
DRS80M6	0.75	7.8	915	14	22.3	BE2	4300 10000	20	18	26.8
DRS90L6	1.1	11.3	930	21	44.6	BE5	3500 8000	40	27	50.5
DRS100M6	1.5	15.5	925	26	56.8	BE5	- 7000	40	32	62.8

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS100LC6	2.2	22	955	31	91	BE5	- 5000	55	37	97
DRS112M6	2.2	22	955	41	148	BE11	- 4000	80	56	158
DRS112M6	3	30.5	945	41	148	BE11	- 3600	80	56	158
DRS132S6	4	40.5	940	44	190	BE11	- 3500	80	59	201
DRS132MC6	5.5	54	970	63	345	BE11	- 2900	110	78	356
DRS160S6	5.5	55	960	80	522	BE11	- 2700	110	98	544
DRS160M6	7.5	75	955	92	634	BE20	- 2700	150	120	685

6-pole DRE.. motors for 400 V (380 – 420 V), 50 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRE71M6	0.25	2.6	910	0.73	-	0.73	IE2	64.8	70.0	68.8	3.4	2.0 2.0	2.1
DRE80S6	0.37	3.8	935	1.19	1.24	0.69	IE2	67.2	71.2	71.5	3.7	2.0 2.0	2.3
DRE80M6	0.55	5.6	935	1.58	-	0.69	IE2	70.5	74.0	74.0	4.4	2.2 2.2	2.4
DRE90L6	0.75	7.6	940	2.05	2.1	0.65	IE2	78.7	80.5	80.0	4.6	2.4 2.4	2.8
DRE100M6	1.1	11.2	940	3.1	3.15	0.64	IE2	77.2	79.4	78.7	4.7	3.0 2.9	3.1
DRE100L6	1.5	15.2	940	4	4.05	0.66	IE2	79.7	81.5	80.9	5.0	3.3 3.1	3.2
DRE112M6	2.2	22	955	5.2	5.3	0.74	IE2	83.5	84.2	83.0	5.5	2.1 1.8	2.7
DRE132S6	3	30	955	6.8	7	0.74	IE2	85.4	85.8	84.4	5.5	2.3 2.1	2.8
DRE132M6	4	40	960	9.5	9.6	0.71	IE2	85.3	86.2	85.4	6.1	2.8 2.6	3.2
DRE132MC6	5.5	54	970	12.1	12.3	0.76	IE2	87.5	88.0	86.9	5.8	1.9 1.7	2.7
DRE160M6	5.5	54	965	12.6	12.8	0.72	IE2	86.4	87.4	86.8	5.8	2.3 2.0	2.8

6-pole DRE.. motors/brakemotors for 400 V (380 – 420 V), 50 Hz, IE2

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE71M6	0.25	2.6	910	9.1	11.9	BE05	6600 15000	5	12	13.2
DRE80S6	0.37	3.8	935	12	15.9	BE1	6000 14000	10	14	17.4
DRE80M6	0.55	5.6	935	14	22.3	BE2	4300 10000	14	18	26.8
DRE90L6	0.75	7.6	940	21	44.6	BE2	3500 8000	20	26	49.2
DRE100M6	1.1	11.2	940	26	56.8	BE5	- 7000	28	32	62.8
DRE100L6	1.5	15.2	940	29	69	BE5	- 6000	40	35	75

Motor type DRE..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRE112M6	2.2	22	955	41	148	BE5	- 4000	55	48	152
DRE132S6	3	30	955	46	190	BE11	- 3500	80	61	201
DRE132M6	4	40	960	60	251	BE11	- 3300	80	74	261
DRE132MC6	5.5	54	970	63	345	BE11	- 2900	80	78	356
DRE160M6	5.5	54	965	88	634	BE11	- 2700	110	105	656

6-pole DRP. motors for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	I _N 400 V A	I _N 380-420 V A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N M _H /M _N	M _K /M _N
DRP90L6	0.75	7.6	940	2.05	2.1	0.65	IE3	78.7	80.5	80.0	4.6	2.4 2.4	2.8
DRP100L6	1.1	11.1	950	3.1	3.15	0.63	IE3	79.8	82.3	82.4	5.3	3.6 3.1	3.2
DRP112M6	1.5	14.8	965	3.5	3.6	0.70	IE3	84.5	86.1	85.8	6.2	2.4 1.7	2.7
DRP132S6	2.2	22	965	5.1	5.2	0.72	IE3	85.5	86.5	85.6	6.0	2.5 2.2	3.0
DRP132M6	3	29.5	970	7.1	7.2	0.70	IE3	86.5	87.7	87.3	6.6	2.9 2.7	3.4
DRP132MC6	4	39	980	9	-	0.72	IE3	87.7	88.8	88.5	6.8	2.2 1.7	3.2
DRP160M6	4	39	975	9.3	9.4	0.69	IE3	87.2	88.9	88.9	6.4	2.5 2.2	3.2

6-pole DRP.. motors/brakemotors for 400 V (380 – 420 V), 50 Hz, IE3

Motor type DRP..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRP90L6	0.75	7.6	940	21	44.6	BE2	3500 8000	20	26	49.2
DRP100L6	1.1	11.1	950	29	69	BE5	- 6000	28	35	75
DRP112M6	1.5	14.8	965	41	148	BE5	- 4000	40	48	152
DRP132S6	2.2	22	965	46	190	BE5	- 3500	55	54	195
DRP132M6	3	29.5	970	60	251	BE11	- 3300	80	74	261
DRP132MC6	4	39	980	63	345	BE11	- 2900	80	78	356
DRP160M6	4	39	975	88	634	BE11	- 2700	110	105	656

5.8 Standard motor, 50/60 Hz, 2-pole, S1

2-pole DRS.. motors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS80S2	0.75	2.55 2.1	2800 3440	1.73 1.5	0.84 0.81	IE1	71.3 74.4	74.6 77.9	74.4 77.0	4.6 5.9	2.5 2.9	2.3 2.7	2.5 2.9
DRS80M2	1.1	3.7 3	2840 3475	2.35 1.93	0.88 0.87	IE1	80.2 82.0	77.7 82.5	76.5 81.5	6.0 7.7	2.7 3.3	2.5 2.9	2.8 3.3
DRS90M2	1.5	5.1 4.15	2830 3470	3.1 2.65	0.89 0.85	IE1	83.3 85.0	80.0 84.4	78.3 82.5	5.9 7.9	2.7 3.2	2.6 3.0	2.7 3.4
DRS90L2	2.2	7.4 6.1	2820 3450	4.45 3.75	0.89 0.89	IE1	84.9 86.0	82.8 85.8	80.5 84.0	5.8 7.5	2.9 3.4	2.5 2.8	2.6 3.1
DRS100M2	3	10.1 8.3	2840 3465	5.8 5	0.91 0.91	IE1	86.9 88.3	84.6 87.5	82.5 85.5	6.4 8.3	3.1 3.7	2.8 3.2	2.8 3.3
DRS100LC2	4	13.2 10.9	2900 3520	7.8 6.7	0.88 0.87	IE1	86.9 88.2	85.6 87.6	84.2 86.5	7.7 9.5	2.7 3.2	2.1 2.4	3.0 3.6
DRS112M2	4	13.2 10.9	2900 3510	7.6 6.6	0.89 0.89	IE1	87.7 88.6	85.4 88.2	84.3 87.5	6.3 7.4	2.3 2.6	2.1 2.3	2.8 3.3
DRS132S2	5.5	18.2 15	2890 3500	10.2 9	0.91 0.91	IE1	89.2 89.8	87.0 88.7	85.5 87.5	6.5 7.2	2.3 2.4	2.1 2.1	2.8 3.1
DRS132M2	7.5	24.5 20.5	2910 3520	13.7 12.1	0.91 0.90	IE1	90.0 90.7	87.8 90.1	86.5 88.5	7.3 8.5	2.5 2.7	2.3 2.3	3.1 3.5
DRS132M2	9.2	30.5 25	2900 3505	16.9 14.4	0.89 0.90	IE1	90.2 91.1	88.8 89.6	87.2 87.5	6.9 7.3	2.5 2.5	2.3 2.2	3.0 3.1

2-pole DRS.. motors/brakemotors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS 80S 2	0.75	2.55 2.1	2800 3440	11.5	15.3	BE05	1400 3300	5	14.3	16.8
DRS 80M 2	1.1	3.7 3	2840 3475	14.3	21.7	BE1	1300 3000	7	17.3	23.2
DRS 90M 2	1.5	5.1 4.15	2830 3470	18.4	35.7	BE1	1100 2700	10	21.3	37.3
DRS 90L 2	2.2	7.4 6.1	2820 3450	21.4	43.9	BE2	900 2200	14	26	48.6
DRS 100M 2	3	10.1 8.3	2840 3465	26	56.2	BE2	700 1800	20	30.6	61
DRS 100LC 2	4	13.2 10.9	2900 3520	31.2	90	BE5	- 700	28	37.1	96
DRS 112M 2	4	13.2 10.9	2900 3510	41.3	114	BE5	- 600	28	48.5	119
DRS 132S 2	5.5	18.2 15	2890 3500	44.2	147	BE5	- 500	40	51.4	151
DRS 132M 2	7.5	24.5 20.5	2910 3520	60	193	BE5	- 500	55	67.2	198
DRS 132M 2	9.2	30.5 25	2900 3505	60	193	BE5	- 500	55	67.2	198

5.9 Standard motor, 50/60 Hz, 4-pole, S1

4-pole DRS.. motors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	IE	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS80S4	0.55	3.75 3.05	1400 1720	1.32 1.18	0.81 0.77	IE1	74.6 75.7	76.6 77.8	75.3 78.5	4.3 5.3	1.9 2.4	1.9 2.4	2.2 2.5
DRS80S4	0.75	5.1 4.15	1400 1720	1.8 1.75	0.81 0.77	IE1	74.6 75.7	76.6 77.8	75.3 78.5	4.3 5.3	1.9 2.4	1.9 2.4	2.2 2.5
DRS80M4	1.1	7.4 6.1	1410 1725	2.4 2.2	0.84 0.79	IE1	77.7 80.2	78.6 80.4	77.0 80.0	5.1 6.4	2.2 2.9	1.7 2.0	2.3 3.1
DRS90M4	1.5	10.3 8.3	1395 1720	3.3 2.85	0.82 0.76	IE1	82.0 84.0	82.0 84.1	79.6 82.5	5.0 6.3	2.3 3.2	2.0 2.6	2.5 3.3
DRS90L4	2.2	15 12.2	1400 1720	4.85 4.15	0.81 0.78	IE1	82.9 85.1	83.1 85.4	81.1 84.0	5.1 6.4	2.5 3.0	2.2 2.7	2.5 3.2
DRS100M4	3	20.5 16.7	1400 1720	6.4 5.5	0.82 0.79	IE1	85.2 86.3	84.7 86.1	82.4 84.0	5.3 7.0	2.8 3.5	2.4 2.6	2.8 3.6
DRS100LC4	4	26.5 22	1440 1750	8.9 7.1	0.78 0.77	IE1	83.2 86.9	84.3 87.6	83.2 86.5	6.5 7.2	2.5 3.9	2.3 3.1	3.1 3.9
DRS112M4	4	26.5 22	1435 1750	8.1 6.8	0.84 0.82	IE1	86.1 89.3	85.6 88.7	83.8 86.5	6.0 7.0	2.0 2.2	1.7 1.8	2.5 2.8
DRS132S4	5.5	36.5 30	1445 1750	11.1 9.4	0.82 0.81	IE1	86.4 89.3	86.7 89.4	85.7 88.5	6.7 7.8	2.4 2.8	2.1 2.3	2.8 3.3
DRS132M4	7.5	49.5 41	1445 1750	14.4 13.1	0.85 0.85	IE1	90.0 90.3	89.1 89.4	87.1 87.5	6.6 7.8	2.4 2.6	1.9 2.1	2.7 3.2
DRS132MC4	9.2	60 49.5	1465 1770	18.6 17.2	0.81 0.77	IE1	87.9 88.3	88.5 89.0	87.6 88.5	7.2 9.1	2.1 2.4	1.6 1.8	2.9 3.7
DRS160S4	9.2	60 49.5	1460 1770	18.9 15.9	0.79 0.79	IE1	87.9 89.2	89.0 90.1	88.0 88.5	6.4 7.4	2.5 2.8	2.0 2.0	2.6 2.9
DRS160M4	11	72 59	1460 1770	22 18.8	0.81 0.79	IE1	89.2 89.9	89.1 90.2	88.0 89.5	6.8 8.0	2.7 3.2	2.3 2.4	2.8 3.1
DRS160MC4	15	97 81	1470 1770	30 27	0.80 0.80	IE1	90.3 90.5	90.2 90.7	89.1 90.2	6.3 7.6	2.1 2.6	1.7 1.9	2.4 2.8
DRS180S4	15	98 81	1460 1765	29 25.5	0.83 0.82	IE1	90.0 89.9	90.3 91.0	89.5 90.2	6.2 7.0	2.3 2.8	2.0 2.2	2.6 3.0
DRS180M4	18.5	121 100	1465 1775	34.5 31.5	0.85 0.85	IE1	90.6 90.2	90.8 91.2	90.0 91.0	6.5 7.5	2.2 2.6	1.8 2.0	2.7 3.1
DRS180L4	22	143 119	1465 1770	41.5 37.5	0.84 0.84	IE1	90.9 90.3	91.2 91.2	90.5 91.0	6.9 7.9	2.4 2.8	2.0 2.1	2.8 3.3
DRS180LC4	30	195 162	1470 1770	57 51	0.84 0.84	IE1	92.2 91.8	92.0 92.5	90.9 91.7	5.6 6.4	1.8 2.0	1.5 1.6	2.2 2.4
DRS200L4	30	194 161	1475 1775	57 52	0.82 0.82	IE1	91.6 91.7	91.9 92.6	91.3 92.4	6.4 7.4	2.1 2.6	1.9 2.1	2.6 2.9
DRS225S4	37	240 198	1475 1780	70 61	0.82 0.82	IE1	92.2 92.1	92.0 93.1	91.6 92.4	7.1 7.6	2.4 3.0	1.9 2.2	3.0 3.0
DRS225M4	45	290 240	1480 1780	84 72	0.83 0.81	IE1	92.8 92.9	92.7 93.8	92.3 93.0	7.4 8.0	2.5 3.4	2.2 2.3	2.9 3.1
DRS225MC4	55	355 295	1480 1780	106 88	0.81 0.83	IE1	92.4 92.8	92.8 93.7	92.4 93.0	6.8 7.1	2.4 2.6	1.8 1.8	2.4 2.6

4-pole DRS.. motors/brakemotors for 400 V, 50/60 Hz, IE1

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS80S4	0.55	3.75 3.05	1400 1720	11.5	15.9	BE1	3500 9000	10	14.5	17.4
DRS80S4	0.75	5.1 4.15	1400 1720	11.5	15.9	BE1	3500 9000	10	14.5	17.4
DRS80M4	1.1	7.4 6.1	1410 1725	14.3	22.3	BE2	3500 9000	14	18	26.8
DRS90M4	1.5	10.3 8.3	1395 1720	18.4	36.6	BE2	2900 7500	20	23	41.3
DRS90L4	2.2	15 12.2	1400 1720	21.4	44.9	BE5	2300 5600	40	27.3	50.9
DRS100M4	3	20.5 16.7	1400 1720	26	57.2	BE5	- 8500	40	31.9	63.2
DRS100LC4	4	26.5 22	1440 1750	31.2	91	BE5	- 3800	55	37.1	97
DRS112M4	4	26.5 22	1435 1750	41.3	152	BE5	- 3100	55	48.5	157
DRS132S4	5.5	36.5 30	1445 1750	44.2	196	BE11	- 2800	80	58.7	206
DRS132M4	7.5	49.5 41	1445 1750	60	258	BE11	- 2000	110	74.5	269
DRS132MC4	9.2	60 49.5	1465 1770	63	347	BE11	- 1500	110	77.5	357
DRS160S4	9.2	60 49.5	1460 1770	79.5	366	BE20	- 1100	150	106.2	417
DRS160M4	11	72 59	1460 1770	91.5	442	BE20	- 1000	150	118.2	493
DRS160MC4	15	97 81	1470 1770	93.5	609	BE20	- 900	200	120.2	661
DRS180S4	15	98 81	1460 1765	121.9	909	BE20	- 900	200	153.9	969
DRS180M4	18.5	121 100	1465 1775	141.1	1130	BE30	- 800	300	181.1	1260
DRS180L4	22	143 119	1465 1770	152.1	1310	BE30	- 590	300	192.1	1450
DRS180LC4	30	195 162	1470 1770	161.1	1700	BE32	- 520	400	206.1	1930
DRS200L4	30	194 161	1475 1775	258	2390	BE32	- 550	400	313	2620
DRS225S4	37	240 198	1475 1780	294.5	2970	BE32	- 320	500	349.5	3200
DRS225M4	45	290 240	1480 1780	315.5	3470	BE32	- 270	600	370.5	3700
DRS225MC4	55	355 295	1480 1780	329	4390	BE32	- 200	600	384	4620

5.10 Standard motor, 50 Hz, 4/2-pole, Dahlander connection, S1

4/2-pole DRS.. motors for 400 V, 50 Hz

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS 71S 4/2	0.25 0.37	1.71 1.3	1400 2720	1.05 1	0.71 0.88	37.9 52.5	45.9 59.3	48.6 60.7	3.0 3.5	1.5 1.5	1.4 1.3	1.9 1.6
DRS 71M 4/2	0.4 0.63	2.75 2.25	1380 2660	1.24 1.66	0.75 0.90	56.1 68.8	62.3 68.0	62.3 61.2	3.0 3.5	1.6 1.4	1.4 1.2	1.8 1.4
DRS 80M 4/2	0.55 0.88	3.6 2.95	1455 2860	1.43 1.91	0.71 0.86	71.8 74.4	76.7 77.4	78.1 77.4	6.3 5.6	2.8 2.3	2.5 1.9	3.5 2.6
DRS 90M 4/2	0.88 1.3	5.9 4.45	1430 2780	2.4 3	0.75 0.86	0.0 0.0	70.0 73.0	71.0 73.0	5.7 5.4	2.5 1.9	2.5 1.8	3.0 2.1
DRS 90M 4/2	1.2 1.8	8 6.2	1440 2780	3.15 4.1	0.74 0.86	68.8 72.1	73.6 75.0	75.0 75.0	5.1 4.6	2.4 2.0	2.4 2.0	2.8 2.2
DRS 100M 4/2	1.5 2.2	10 7.4	1430 2840	3.35 4.3	0.80 0.93	81.0 80.5	82.1 80.5	81.1 79.2	6.4 6.4	2.7 2.2	2.5 1.8	3.2 2.7
DRS 100L 4/2	2.5 3	17.1 10.1	1400 2840	5.5 5.8	0.84 0.93	83.2 82.4	80.9 81.6	78.4 79.7	5.0 6.7	2.2 2.5	1.9 2.0	2.3 2.3
DRS 132S 4/2	3.3 4	21.5 13.1	1450 2915	9 7.5	0.65 0.90	77.9 85.2	80.8 86.4	81.0 85.8	4.5 7.3	1.8 2.2	1.8 1.9	2.6 2.8
DRS 132M 4/2	4.4 5.5	29 17.9	1455 2930	11.3 9.9	0.67 0.91	80.9 87.6	83.3 88.4	83.3 87.6	4.9 7.9	1.9 2.2	1.8 1.9	2.7 2.9
DRS 160S 4/2	6 7.5	39 24.5	1470 2950	12 17	0.80 0.75	89.3 81.5	89.7 83.9	88.9 84.2	7.0 6.8	2.5 2.7	1.8 1.5	2.6 3.0
DRS 160M 4/2	8.8 11	57 35.5	1465 2940	17.5 25	0.82 0.76	89.6 82.3	89.2 83.8	87.7 83.2	6.3 6.3	2.2 2.3	1.7 1.5	2.5 2.8
DRS 180L 4/2	13 15	84 48.5	1475 2960	23.5 31.5	0.87 0.78	92.1 84.2	92.7 87.1	92.4 88.0	8.0 8.2	2.6 3.0	1.8 1.6	3.1 3.6
DRS 180L 4/2	18.5 20	120 65	1470 2960	34.5 45.5	0.84 0.72	92.0 84.8	92.0 87.2	91.2 87.7	7.0 7.6	2.4 2.9	1.7 1.5	2.8 3.2

4/2-pole motors/brakemotors DRS.. for 400 V, 50 Hz

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG 1/h	Z ₀ BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS 71S 4/2	0.25 0.37	1.71 1.3	1400 2720	7.8	5.13	BE05	4800 2000	7500 2700	3.5	10	6.43
DRS 71M 4/2	0.4 0.63	2.75 2.25	1380 2660	9.1	7.21	BE05	3000 1700	5400 2200	5	12	8.51
DRS 80M 4/2	0.55 0.88	3.6 2.95	1455 2860	14	22.3	BE1	1100 800	2200 1900	7	17	23.8
DRS 90M 4/2	0.88 1.3	5.9 4.45	1430 2780	18	36.6	BE2	1900 850	3850 1300	20	23	41.3
DRS 90M 4/2	1.2 1.8	8 6.2	1440 2780	18	36.6	BE2	1900 850	3850 1300	20	23	41.3
DRS 100M 4/2	1.5 2.2	10 7.4	1430 2840	26	57.2	BE2	920 550	3280 820	20	31	61.9
DRS 100L 4/2	2.5 3	17.1 10.1	1400 2840	29	69.5	BE5	- -	2250 920	28	35	75.5
DRS 132S 4/2	3.3 4	21.5 13.1	1450 2915	44	147	BE5	- -	1200 450	55	51	151
DRS 132M 4/2	4.4 5.5	29 17.9	1455 2930	60	193	BE11	- -	670 350	80	74	204
DRS 160S 4/2	6 7.5	39 24.5	1470 2950	80	366	BE11	- -	900 280	80	98	388
DRS 160M 4/2	8.8 11	57 35.5	1465 2940	92	442	BE20	- -	750 190	110	120	493
DRS 180L 4/2	13 15	84 48.5	1475 2960	150	1300	BE20	- -	750 140	200	185	1360
DRS 180L 4/2	18.5 20	120 65	1470 2960	150	1300	BE30	- -	750 140	300	190	1440

5.11 Standard motor, 50 Hz, 8/2-pole separate winding, S3 40/60% or S1

8/2-pole DRS.. motors for 400 V, 50 Hz

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS 71S 8/2	0.06 0.25	0.84 0.83	685 2870	0.48 0.98	0.62 0.65	0.0 0.0	0.0 0.0	29.1 57.2	1.7 3.4	1.6 2.0	1.5 1.5	1.7 2.2
DRS 71M 8/2	0.08 0.37	1.12 1.24	685 2855	0.61 0.98	0.58 0.81	0.0 0.0	0.0 0.0	32.7 66.6	1.7 4.2	1.7 1.9	1.6 1.4	1.7 1.9
DRS 71M 8/2	0.1 0.4	1.43 1.34	670 2840	0.66 1.04	0.66 0.83	0.0 0.0	0.0 0.0	33.6 66.6	1.5 4.0	1.3 1.8	1.3 1.3	1.3 1.8
DRS 71M 8/2	0.11 0.44	1.56 1.47	675 2860	0.82 1.34	0.60 0.74	0.0 0.0	0.0 0.0	32.5 63.1	1.5 3.4	1.5 2.0	1.4 1.5	1.5 2.0
DRS 80S 8/2	0.15 0.6	2.15 2.1	670 2710	0.95 1.9	0.65 0.80	0.0 0.0	0.0 0.0	35.9 58.6	1.8 3.0	1.5 2.0	1.6 1.7	1.8 1.8
DRS 80M 8/2	0.22 0.9	3.1 3.1	680 2780	1.15 2.4	0.60 0.80	32.1 64.2	39.8 68.5	43.3 68.7	2.0 4.0	1.7 2.6	1.7 2.4	1.9 2.5
DRS 90M 8/2	0.3 1.3	4.05 4.3	710 2880	1.41 3.3	0.55 0.80	0.0 0.0	0.0 0.0	56.1 71.0	2.5 4.6	1.4 1.9	1.4 1.7	1.9 2.3
DRS 90L 8/2	0.45 1.8	6 5.9	720 2905	2.5 4.7	0.52 0.74	0.0 0.0	0.0 0.0	55.0 74.5	2.3 5.6	1.4 2.5	1.4 2.1	2.0 2.6
DRS 100M 8/2	0.6 2.4	8.1 7.9	710 2890	3.1 5.4	0.57 0.82	0.0 0.0	0.0 0.0	49.8 79.2	2.3 6.2	1.4 2.6	1.4 2.2	1.9 2.7
DRS 112M 8/2	0.8 3	10.8 10.4	710 2750	4.2 6.7	0.53 0.87	0.0 0.0	0.0 0.0	53.4 75.7	2.5 4.6	1.4 2.7	0.9 2.2	1.6 2.4
DRS 132M 8/2	1.1 4.6	14.8 15.7	710 2800	4.6 8.5	0.53 0.92	0.0 0.0	0.0 0.0	65.9 80.5	3.0 6.7	1.5 3.1	1.5 2.0	2.1 2.5

8/2-pole motors/brakemotors DRS.. for 400 V, 50 Hz

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG 1/h	Z ₀ BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS 71S 8/2	0.06 0.25	0.84 0.83	685 2870	7.8	5.13	BE05	15000 6000	20000 9000	1.8	10	6.43
DRS 71M 8/2	0.08 0.37	1.12 1.24	685 2855	9.1	7.21	BE05	14000 6000	18000 8000	3.5	12	8.51
DRS 71M 8/2	0.1 0.4	1.43 1.34	670 2840	9.1	7.21	BE05	14000 6000	18000 8000	3.5	12	8.51
DRS 71M 8/2	0.11 0.44	1.56 1.47	675 2860	9.1	7.21	BE05	14000 6000	18000 8000	3.5	12	8.51
DRS 80S 8/2	0.15 0.6	2.15 2.1	670 2710	12	15.9	BE05	8000 3800	14000 5000	5	14	17.4
DRS 80M 8/2	0.22 0.9	3.1 3.1	680 2780	14	22.3	BE1	8000 3000	14000 4000	7	17	23.8
DRS 90M 8/2	0.3 1.3	4.05 4.3	710 2880	18	36.6	BE1	7000 2300	11000 3500	10	21	38.2
DRS 90L 8/2	0.45 1.8	6 5.9	720 2905	21	44.9	BE2	5000 1700	10000 3300	14	26	49.6
DRS 100M 8/2	0.6 2.4	8.1 7.9	710 2890	26	57.2	BE2	4000 1700	9000 2600	20	31	61.9
DRS 112M 8/2	0.8 3	10.8 10.4	710 2750	41	152	BE5	- -	7000 1500	28	48	157
DRS 132M 8/2	1.1 4.6	14.8 15.7	710 2800	60	258	BE5	- -	5000 1000	40	67	263

5.12 Standard motor, 50 Hz, 8/4-pole, Dahlander connection, S1

8/4-pole DRS.. motors for 400 V, 50 Hz

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	I _N A	cosφ	η _{50%} %	η _{75%} %	η _{100%} %	I _A /I _N	M _A /M _N	M _H /M _N	M _K /M _N
DRS 71S 8/4	0.1	1.39	685	0.485	0.62	38.8	47.1	51.0	2.2	1.7	1.7	2.0
	0.18	1.23	1400	0.52	0.79	57.0	63.6	64.7	3.3	1.5	1.4	1.9
DRS 71M 8/4	0.16	2.25	685	0.71	0.62	42.5	50.6	54.0	2.4	1.7	1.7	2.0
	0.3	2.05	1400	0.79	0.83	60.9	65.6	65.6	3.5	1.5	1.4	1.9
DRS 80M 8/4	0.22	2.95	710	0.98	0.56	44.9	53.2	57.4	3.0	1.8	1.8	2.4
	0.4	2.65	1440	0.96	0.81	71.6	74.9	74.7	4.9	1.7	1.4	2.2
DRS 90M 8/4	0.3	4.05	710	1.44	0.51	47.8	55.6	59.4	2.9	2.1	2.1	2.5
	0.6	4	1440	1.42	0.79	75.8	78.0	77.3	5.1	1.9	1.7	2.4
DRS 90L 8/4	0.44	6	700	1.9	0.54	52.2	59.2	61.2	2.9	1.8	1.7	2.2
	0.88	5.9	1425	1.98	0.83	78.0	79.1	76.9	4.7	1.7	1.6	2.1
DRS 100M 8/4	0.66	9.1	690	2.65	0.57	57.2	62.7	63.9	2.8	1.7	1.7	2.0
	1.3	8.7	1420	2.9	0.84	79.7	79.7	77.2	4.5	1.8	1.6	2.0
DRS 100L 8/4	0.9	12.5	690	3.5	0.58	57.7	63.0	63.9	2.8	1.7	1.7	2.0
	1.8	12.2	1410	4	0.85	80.5	79.7	76.5	4.5	1.7	1.6	1.9
DRS 112M 8/4	1.2	17	675	4.2	0.58	69.3	72.1	71.0	2.9	1.9	1.9	2.1
	2.2	15.1	1390	4.6	0.87	83.5	82.6	79.7	4.8	2.2	1.9	2.2
DRS 132S 8/4	1.6	22.5	680	5.8	0.55	70.5	72.4	72.2	2.9	2.0	2.0	2.3
	3.3	23	1385	6.8	0.87	84.2	82.1	79.9	4.7	2.1	1.9	2.1
DRS 132M 8/4	2.1	29.5	680	7	0.59	73.4	75.4	74.2	3.3	1.9	1.9	2.2
	4.2	29	1390	8.6	0.87	85.5	83.7	80.2	5.0	2.1	1.9	2.2
DRS 160S 8/4	2.7	35.5	725	9.2	0.54	0.0	0.0	78.9	4.0	2.1	1.9	2.3
	5.5	35.5	1470	11	0.84	0.0	0.0	85.6	6.3	1.9	1.4	2.2
DRS 160M 8/4	3.8	49.5	730	12.9	0.54	0.0	0.0	78.4	3.9	2.0	1.9	2.3
	7.5	48.5	1470	15	0.84	0.0	0.0	85.6	6.2	1.9	1.4	2.2
DRS 180S 8/4	5.5	72	730	17.4	0.55	79.7	82.5	83.1	4.0	2.2	2.0	2.6
	10	65	1465	18.7	0.87	89.9	89.9	88.9	6.0	1.9	1.4	2.3
DRS 180L 8/4	7.5	97	735	22.5	0.55	0.0	0.0	86.3	4.4	2.4	2.1	2.7
	15	97	1470	27.5	0.87	0.0	0.0	89.9	6.0	1.9	1.4	2.3
DRS 200L 8/4	11	143	735	35.5	0.52	0.0	0.0	85.3	4.0	2.4	2.0	2.5
	22	142	1475	41.5	0.85	0.0	0.0	89.9	5.9	1.8	1.4	2.0
DRS 225S 8/4	14	182	735	45	0.52	0.0	0.0	86.2	4.1	2.5	2.2	2.6
	28	181	1475	52	0.85	0.0	0.0	90.8	6.2	1.9	1.5	2.0
DRS 225M 8/4	18	230	740	57	0.53	0.0	0.0	86.4	4.0	2.4	2.0	2.5
	34	220	1475	63	0.86	0.0	0.0	91.1	6.3	2.0	1.5	2.1

8/4-pole motors/brakemotors DRS.. for 400 V, 50 Hz

Motor type DRS..	P _N kW	M _N Nm	n _N rpm	m kg	J _{Mot} 10 ⁻⁴ kgm ²	BE..	Z ₀ BG 1/h	Z ₀ BGE 1/h	M _B Nm	m _B kg	J _{Mot_BE} 10 ⁻⁴ kgm ²
DRS 71S 8/4	0.1 0.18	1.39 1.23	685 1400	7.8	8.29	BE05	7000 4000	12000 7000	3.5	10	9.59
DRS 71M 8/4	0.16 0.3	2.25 2.05	685 1400	9.1	11.9	BE05	5300 3100	9800 5300	5	12	13.2
DRS 80M 8/4	0.22 0.4	2.95 2.65	710 1440	14	22.3	BE1	3800 2300	7000 4200	7	17	23.8
DRS 90M 8/4	0.3 0.6	4.05 4	710 1440	18	36.6	BE1	2600 2000	6700 3700	10	21	38.2
DRS 90L 8/4	0.44 0.88	6 5.9	700 1425	21	44.9	BE2	2500 2000	5800 3400	20	26	49.6
DRS 100M 8/4	0.66 1.3	9.1 8.7	690 1420	26	57.2	BE2	2400 1800	5200 3400	20	31	61.9
DRS 100L 8/4	0.9 1.8	12.5 12.2	690 1410	29	69.5	BE5	2300 1400	4700 2500	28	35	75.5
DRS 112M 8/4	1.2 2.2	17 15.1	675 1390	41	152	BE5	- -	3800 1800	40	48	157
DRS 132S 8/4	1.6 3.3	22.5 23	680 1385	44	196	BE5	- -	3000 1600	55	51	200
DRS 132M 8/4	2.1 4.2	29.5 29	680 1390	60	258	BE11	- -	3000 1500	80	74	269
DRS 160S 8/4	2.7 5.5	35.5 35.5	725 1470	80	366	BE11	- -	2600 1400	80	98	388
DRS 160M 8/4	3.8 7.5	49.5 48.5	730 1470	92	442	BE11	- -	1900 1300	110	110	464
DRS 180S 8/4	5.5 10	72 65	730 1465	120	909	BE20	- -	1600 1200	150	155	969
DRS 180L 8/4	7.5 15	97 97	735 1470	150	1310	BE20	- -	1100 900	200	185	1370
DRS 200L 8/4	11 22	143 142	735 1475	260	2390	BE30	- -	900 700	300	310	2520
DRS 225S 8/4	14 28	182 181	735 1475	295	2970	BE32	- -	700 500	400	350	3200
DRS 225M 8/4	18 34	230 220	740 1475	315	3470	BE32	- -	600 450	500	370	3700

5.13 Key to the data of DRM.. torque motors

The following table lists the short symbols used in the "Technical data" tables.

n_N	Rated speed
M_N	Rated torque
I_N	Rated current
$\cos\varphi$	Power factor
J_{Mot}	Mass moment of inertia of the motor
BE..	Brake used
M_B	Braking torque

5.14 DRM.. torque motors, 50 Hz, 12-pole

12-pole DRM.. torque motors for 400 V, 50 Hz, S1, fan-cooled

DRM.. motor type	n_N	M_N	I_N	$\cos\varphi$	J_{Mot}	BE..	M_B
	rpm	Nm	A		10^{-4} kgm^2		Nm
DRM71S12	500	0.7	0.26	0.76	8.1	BE05	1.8
DRM71M12	500	0.9	0.31	0.69	11.7	BE05	1.8
DRM90M12	500	1.3	0.51	0.56	33.9	BE1	5
DRM100M12	500	2.3	0.8	0.50	54.4	BE2	5
DRM100L12	500	2.6	0.88	0.49	66.7	BE2	5
DRM132S12	500	2.9	1.53	0.31	190	BE5	14
DRM132M12	500	3.6	2.05	0.29	253	BE5	14

12-pole DRM.. torque motors for 400 V, 50 Hz, S3/15 %, fan-cooled

DRM.. motor type	n_N	M_N	I_N	$\cos\varphi$	J_{Mot}	BE..	M_B
	rpm	Nm	A		10^{-4} kgm^2		Nm
DRM71S12	500	2.6	0.87	0.74	8.1	BE05	1.8
DRM71M12	500	3.0	0.99	0.71	11.7	BE05	1.8
DRM90M12	500	6.2	1.76	0.59	33.9	BE1	5
DRM100M12	500	10.4	2.75	0.60	54.4	BE2	5
DRM100L12	500	11.7	2.95	0.56	66.7	BE2	5
DRM132S12	500	12.9	5.6	0.36	190	BE5	14
DRM132M12	500	17.3	7.7	0.34	253	BE5	14

12-pole DRM.. torque motors for 400 V, 50 Hz, S1, forced air cooling

DRM.. motor type	n_N	M_N	I_N	$\cos\varphi$	J_{Mot}	BE..	M_B
	rpm	Nm	A		10^{-4} kgm^2		Nm
DRM71S12	500	1.9	0.61	0.75	8.1	BE05	5
DRM71M12	500	2.7	0.85	0.72	11.7	BE1	7
DRM90M12	500	3.9	1.09	0.58	35.2	BE1	10
DRM100M12	500	5	1.52	0.52	55.9	BE2	10
DRM100L12	500	7	1.85	0.55	68.1	BE2	14
DRM132S12	500	7.2	3.2	0.34	190	BE5	20
DRM132M12	500	8.7	4.25	0.32	253	BE5	20

5.15 Key to the technical data for asynchronous DRL.. servomotors

The following table lists the short symbols used in the "Technical data" tables.

n_N	Rated speed
M_N	Rated torque
I_N	Rated current
J_{Mot}	Mass moment of inertia of the motor
$M_{pk} D1$	Maximum limit torque (dynamics package 1)
$M_{pk} D2$	Maximum limit torque (dynamics package 2)
m	Mass of the motor
BE..	Brake used
m_B	Mass of the brake motor
J_{MOT_BE}	Mass moment of inertia of the brake motor
$M_B D1$	Braking torque (dynamics package 1)
$M_B D2$	Braking torque (dynamics package 2)

5.16 Asynchronous DRL.. servomotors

4-pole DRL.. servomotors for 400 V, 50 Hz

n_N	Motor type	M_N	I_N	I_{q_rated}	I_{d_rated}	k_T	M_{pk}	M_{pk}	m	J_{Mot}
							D1	D2		
		Nm	A	A	A	Nm/A	Nm	Nm		
1200	DRL71S4	2.7	1.18	1.02	0.62	2.66	5	8.5	8.6	4.9
	DRL71M4	4	1.6	1.36	0.80	2.93	7	14	10	7.1
	DRL80S	6.5	2.15	1.95	0.88	3.33	10	25	11.5	14.9
	DRL80M4	9.5	2.9	2.64	1.10	3.60	14	30	15.2	21.5
	DRL90L4	15	4.8	4.14	2.21	3.63	25	46	22.5	43.5
	DRL100L4	26	8.5	8.05	2.68	3.23	40	85	30	68
	DRL132S4	42	12.6	11.9	4.07	3.52	80	150	45.5	190
	DRL132MC4	56	17.6	15.4	7.50	3.63	130	200	65	340
	DRL160M4	85	25.5	24.2	8.05	3.51	165	280	93	450
	DRL160MC4	90	28	25.1	10.9	3.58	185	320	95	590
	DRL180S	120	34.5	33.2	10.8	3.62	210	380	122	900
	DRL180M4	135	38	36.1	11.3	3.74	250	430	143	1110
	DRL180L4	165	47	44.9	14.8	3.67	320	520	154	1300
	DRL180LC4	175	52	46.8	17.1	3.74	420	600	163	1680
	DRL200L	200	58.5	56.0	17.8	3.57	475	680	260	2360
	DRL225S4	250	72	68.1	23.4	3.67	520	770	295	2930
	DRL225MC4	290	89	78.6	29.2	3.69	770	1100	330	4330

n _N	Motor type	M _N	I _N	I _{q_rated}	I _{d_rated}	k _T	M _{pk}	M _{pk}	m	J _{Mot}
							D1	D2		
		Nm	A	A	A	Nm/A	Nm	Nm		
1700	DRL71S4	2.7	1.63	1.40	0.86	1.92	5	8.5	8.6	4.9
	DRL71M4	4	2.2	1.90	1.11	2.11	7	14	10	7.1
	DRL80S	6.5	2.96	2.71	1.22	2.40	10	25	11.5	14.9
	DRL80M4	9.5	4	3.65	1.52	2.60	14	30	15.2	21.5
	DRL90L4	15	6.6	5.67	3.02	2.65	25	46	22.5	43.5
	DRL100L4	26	11.4	11.00	3.66	2.36	40	85	30	68
	DRL132S4	42	17.8	16.9	5.75	2.49	80	150	45.5	190
	DRL132MC4	56	24.9	21.9	10.6	2.56	130	200	65	340
	DRL160M4	85	35	33.5	11.1	2.54	165	280	93	450
	DRL160MC4	90	36	32.3	14.0	2.78	185	320	95	590
	DRL180S	120	47.5	45.6	14.8	2.63	210	380	122	900
	DRL180M4	135	52	50.1	15.7	2.70	250	430	143	1110
	DRL180L4	165	63	61.3	20.2	2.69	320	520	154	1300
	DRL180LC4	175	72	65.7	24.1	2.66	420	600	163	1680
	DRL200L	200	80.6	78.4	25.0	2.55	475	680	260	2360
	DRL225S4	245	97	92	32.2	2.66	520	770	295	2930
	DRL225MC4	280	130	114	43.9	2.45	770	1100	330	4330
2100	DRL71S4	2.6	2	1.70	1.08	1.53	5	8.5	8.6	4.9
	DRL71M4	3.8	2.7	2.25	1.39	1.69	7	14	10	7.1
	DRL80S	6.2	3.59	3.22	1.52	1.92	10	25	11.5	14.9
	DRL80M4	9.5	5	4.60	1.91	2.07	14	30	15.2	21.5
	DRL90L4	15	8.4	7.21	3.84	2.08	25	46	22.5	43.5
	DRL100L4	25	14	13.4	4.63	1.87	40	85	30	68
	DRL132S4	41	21.4	20.3	7.07	2.02	80	150	45.5	190
	DRL132MC4	52	28.8	25.0	13.0	2.08	130	200	65	340
	DRL160M4	85	44	42.1	14.0	2.02	165	280	93	450
	DRL160MC4	88	48	42.8	18.9	2.06	185	320	95	590
	DRL180S	110	55.3	52.7	18.7	2.09	210	380	122	900
	DRL180M4	130	64	60.4	19.6	2.15	250	430	143	1110
	DRL180L4	160	78	75.8	25.8	2.11	320	520	154	1300
	DRL180LC4	170	87	79.1	29.8	2.15	420	600	163	1680
	DRL200L	195	99	94.6	30.9	2.06	475	680	260	2360
	DRL225S4	235	119	111	40.6	2.11	520	770	295	2930
	DRL225MC4	265	142	125	50.8	2.12	770	1100	330	4330
3000	DRL71S4	2.5	2.68	2.26	1.49	1.11	5	8.5	8.6	4.9
	DRL71M4	3.6	3.55	2.96	1.93	1.21	7	14	10	7.1
	DRL80S	6	4.82	4.32	2.10	1.39	10	25	11.5	14.9
	DRL80M4	8.8	6.5	5.86	2.63	1.50	14	30	15.2	21.5
	DRL90L4	14	11	9.19	5.25	1.52	25	46	22.5	43.5
	DRL100L4	21	16.6	15.4	6.35	1.36	40	85	30	68
	DRL132S4	35	25.5	24.4	10.0	1.43	80	150	45.5	190
	DRL132MC4	42	34.8	28.4	18.4	1.48	130	200	65	340
	DRL160M4	79	57	53.9	19.3	1.47	165	280	93	450
	DRL160MC4	83	59	51.8	24.3	1.60	185	320	95	590
	DRL180S	100	70.1	65.9	25.7	1.52	210	380	122	900
	DRL180M4	105	73	67.6	27.2	1.55	250	430	143	1110
	DRL180L4	130	90	83.8	35.0	1.55	320	520	154	1300
	DRL180LC4	140	105	91	41.8	1.53	420	600	163	1680
	DRL200L	165	118	112	43.3	1.47	475	680	260	2360
	DRL225S4	195	139	127	56.0	1.53	520	770	295	2930
	DRL225MC4	220	188	156	76	1.41	770	1100	330	4330

4-pole DRL.. servomotors/brakemotors for 400 V, 50 Hz

n _N	Motor type	M _N	I _N	BE..	M _B	M _B	m _B	J _{Mot_BE}
					D1	D2		
		Nm	A		Nm	Nm		
1200	DRL71S4	2.7	1.18	BE05	5	5	11	6.2
	DRL71M4	4	1.6	BE1	7	10	12.6	8.4
	DRL80S	6.5	2.15	BE2	10	20	15.2	19.4
	DRL80M4	9.5	2.9	BE2	14	20	18.9	26
	DRL90L4	15	4.8	BE5	20	40	28.5	49.5
	DRL100L4	26	8.5	BE5	40	55	36	74
	DRL132S4	42	12.6	BE11	80	110	60	200
	DRL132MC4	56	17.6	BE11	110	110	79	355
	DRL160M4	85	25.5	BE20	150	200	120	500
	DRL160MC4	90	28	BE20	150	200	122	640
	DRL180S	120	34.5	BE30	200	300	162	1030
	DRL180M4	135	38	BE30	200	300	183	1250
	DRL180L4	165	47	BE30	300	300	194	1440
	DRL180LC4	175	52	BE32	400	400	210	1910
	DRL200L	200	58.5	BE32	400	600	315	2590
	DRL225S4	250	72	BE32	500	500	350	3160
	DRL225MC4	290	89	BE32	600	600	385	4560
1700	DRL71S4	2.7	1.63	BE05	5	5	11	6.2
	DRL71M4	4	2.2	BE1	7	10	12.6	8.4
	DRL80S	6.5	2.96	BE2	10	20	15.2	19.4
	DRL80M4	9.5	4	BE2	14	20	18.9	26
	DRL90L4	15	6.6	BE5	20	40	28.5	49.5
	DRL100L4	26	11.4	BE5	40	55	36	74
	DRL132S4	42	17.8	BE11	80	110	60	200
	DRL132MC4	56	24.9	BE11	110	110	79	355
	DRL160M4	85	35	BE20	150	200	120	500
	DRL160MC4	90	36	BE20	150	200	122	640
	DRL180S	120	47.5	BE30	200	300	162	1030
	DRL180M4	135	52	BE30	200	300	183	1250
	DRL180L4	165	63	BE30	300	300	194	1440
	DRL180LC4	175	72	BE32	400	400	210	1910
	DRL200L	200	80.6	BE32	400	600	315	2590
	DRL225S4	245	97	BE32	500	500	350	3160
	DRL225MC4	280	130	BE32	600	600	385	4560
2100	DRL71S4	2.6	2	BE05	5	5	11	6.2
	DRL71M4	3.8	2.7	BE1	7	10	12.6	8.4
	DRL80S	6.2	3.59	BE2	10	20	15.2	19.4
	DRL80M4	9.5	5	BE2	14	20	18.9	26
	DRL90L4	15	8.4	BE5	20	40	28.5	49.5
	DRL100L4	25	14	BE5	40	55	36	74
	DRL132S4	41	21.4	BE11	80	110	60	200
	DRL132MC4	52	28.8	BE11	110	110	79	355
	DRL160M4	85	44	BE20	150	200	120	500
	DRL160MC4	88	48	BE20	150	200	122	640
	DRL180S	110	55.3	BE30	200	300	162	1030
	DRL180M4	130	64	BE30	200	300	183	1250
	DRL180L4	160	78	BE30	300	300	194	1440
	DRL180LC4	170	87	BE32	400	400	210	1910
	DRL200L	195	99	BE32	400	600	315	2590
	DRL225S4	235	119	BE32	500	500	350	3160
	DRL225MC4	265	142	BE32	600	600	385	4560

5 Technical data of the motors

Asynchronous DRL.. servomotors

n _N	Motor type	M _N	I _N	BE..	M _B	M _B	m _B	J _{Mot_BE}
					D1	D2		
		Nm	A		Nm	Nm		
3000	DRL71S4	2.5	2.68	BE05	5	5	11	6.2
	DRL71M4	3.6	3.55	BE1	7	10	12.6	8.4
	DRL80S	6	4.82	BE2	10	20	15.2	19.4
	DRL80M4	8.8	6.5	BE2	14	20	18.9	26
	DRL90L4	14	11	BE5	20	40	28.5	49.5
	DRL100L4	21	16.6	BE5	40	55	36	74
	DRL132S4	35	25.5	BE11	80	110	60	200
	DRL132MC4	42	34.8	BE11	110	110	79	355
	DRL160M4	79	57	BE20	150	200	120	500
	DRL160MC4	83	59	BE20	150	200	122	640
	DRL180S	100	70.1	BE30	200	300	162	1030
	DRL180M4	105	73	BE30	200	300	183	1250
	DRL180L4	130	90	BE30	300	300	194	1440
	DRL180LC4	140	105	BE32	400	400	210	1910
	DRL200L	165	118	BE32	400	600	315	2590
	DRL225S4	195	139	BE32	500	500	350	3160
	DRL225MC4	220	188	BE32	600	600	385	4560

1) Applies for foot-mounted motor with brake (DRL...BE../FI..)

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