



EMERSON[™]
Industrial Automation



NEMA[®]
Premium



Permanent Magnet Solutions
Dyneo[®]
NEMA PREMIUM⁺



LEROY[®]
SOMER

Nema Premium A.C. motors
Nema Premium⁺ Synchronous P.M. Motors

Nema Premium A.C. motors

Aluminium frame - Cast iron brackets

TEFC - 3 phase - 460V - 60Hz



2-pole
3600 min⁻¹

Type	Rated power	Rated speed	Rated torque	Rated current	Power factor	Efficiency IEEE 112B
	P_N HP	N_N min ⁻¹	M_N N.m	$I_{N(400V)}$ A	$\cos \varphi$ 4/4	η 4/4
LSES 56	1	3475	2.1	1.4	0.84	80.2
LSES 56	1.5	3480	3.1	2	0.85	84
LSES 145 T	2	3500	4.1	2.7	0.82	85.5
LSES 145 T	3	3550	6.0	4	0.8	86.5
LSES 184 T	5	3540	10.1	5.9	0.89	88.5
LSES 213 T	7.5	3580	14.9	9.2	0.84	90.2
LSES 215 T	10	3545	20.1	11.9	0.87	90.4
LSES 254 T	15	3550	30.1	17.7	0.87	91.1
LSES 256 T	20	3540	40.3	23.4	0.87	91.7
LSES 284 TS	25	3560	50.1	29	0.88	91.7
LSES 286 TS	30	3550	60.2	34	0.89	92.8
LSES 326 TS	40	3560	80.1	43.9	0.92	92.6
LSES 326 TS	50	3565	100	56.5	0.89	93
LSES 364 TS	60	3565	120	68.9	0.87	93.6
LSES 365 TS	75	3560	150	84.1	0.89	93.8
LSES 405 TS	100	3570	200	110	0.9	94.3
LSES 444 TS	125	3570	250	137	0.9	95
LSES 445 TS	150	3575	299	163	0.9	95.4
LSES 447 TS	200	3580	398	218	0.9	95.4

4-pole
1800 min⁻¹

Type	Rated power	Rated speed	Rated torque	Rated current	Power factor	Efficiency IEEE 112B
	P_N HP	N_N min ⁻¹	M_N N.m	$I_{N(400V)}$ A	$\cos \varphi$ 4/4	η 4/4
LSES 143 T	1	1755	4.1	1.4	0.79	85.5
LSES 145 T	1.5	1755	6.1	2	0.8	86.5
LSES 145 T	2	1765	8.1	2.8	0.77	86.6
LSES 182 T	3	1750	12.2	3.9	0.8	89.5
LSES 184 T	5	1765	20.2	6.6	0.79	89.5
LSES 213 T	7.5	1770	30.2	9.1	0.84	91.7
LSES 254 T	10	1770	40.3	12.4	0.82	91.9
LSES 254 T	15	1775	60.2	18.8	0.8	93.2
LSES 256 T	20	1765	80.8	25.5	0.79	93
LSES 286 T	25	1780	100	31.3	0.8	93.6
LSES 326 T	30	1770	121	35.7	0.84	93.6
LSES 326 T	40	1780	160	49.1	0.81	94.1
LSES 326 T	50	1780	200	61.8	0.8	94.6
LSES 405 TS	60	1785	240	72.1	0.82	95
LSES 405 TS	75	1785	300	89.7	0.82	95.4
LSES 444 T	100	1785	399	120	0.82	95.4
LSES 444 T	125	1785	499	151	0.81	95.4
LSES 445 TS	150	1790	597	180	0.82	95.8
LSES 447 T	200	1790	796	229	0.85	96.2

Other finishes, speeds and power ratings are available on request



1 to 500 HP



1 to 500 HP



EISA timetable



Nema Premium+ Synchronous P.M. motors

Aluminium frame - Cast iron brackets

TEFC - 3 phase - 460V - 60Hz



Equivalent to IE4 European efficiency level. Motors are operating ONLY on inverter.

3600 min⁻¹

Type	Rated power	Rated speed	Rated torque	Rated current	Efficiency IEEE 112B	Motor weight	Type of associated drive for centrifugal applications
	P_N HP	N_N min ⁻¹	M_N N.m	$I_{N(400V)}$ A	η 4/4	lbs	
LSES 324 TS	87		133	97	93.6	298	SP 4403
LSES 324 TS	94		186	130	94.1	337	SP 5401
LSES 324 TS	115		225	158	94.5	392	SP 5402
LSES 324 TS	155		294	205	94.9	430	SP 6401
LSES 364 TS	182		350	250	94.9	550	SPMA 1401-2S
LSES 365 TS	223		438	310	95.0	591	SPMA 1401-2S
LSES 365 TS	257		504	350	95.2	635	SPMA 1401-2S
LSES 444 TS	324		612	384	95.2	844	SPMA 1401-2S
LSES 444 TS	365		716	480	95.3	1367	SPMA 1401-3S
PLSRPM 315 LD*	440		862	575	95.4	1620	SPMA 1401-3S
PLSRPM 315 LD*	473		928	630	95.5	1653	SPMA 1401-4S
PLSRPM 315 LD*	527		1035	650	95.6	1764	SPMA 1401-4S

* ODP steel frame & IEC design

1800 min⁻¹

Type	Rated power	Rated speed	Rated torque	Rated current	Efficiency IEEE 112B	Motor weight	Type of associated drive for centrifugal applications
	P_N HP	N_N min ⁻¹	M_N N.m	$I_{N(400V)}$ A	η 4/4	lbs	
LSES 324 T	45		151	68	92.1	298	SP 4401
LSES 324 T	54		212	82,5	92.9	330	SP 4402
LSES 324 T	74		264	104	93.8	364	SP 4403
LSES 324 T	94		358	138	94.2	425	SP 5401
LSES 364 T	115		441	168	94.1	492	SP 5402
LSES 365 T	135		530	195	94.2	628	SP 6401
LSES 444 T	170		631	236	94.4	728	SP 6402
LSES 444 T	200		796	295	94.5	838	SPMA 1401-2S
LSES 444 T	235		928	330	94.6	1252	SPMA 1401-2S
LSES 447T	263		1035	370	94.8	1400	SPMA 1402-2S
LSES 447T	310		1220	425	95.0	1587	SPMA 1402-2S
LSES 447T	400		1592	670	94.6	1587	SPMA 1402-3S

Smaller ratings and other speed ranges from 375 rpm to 5500 rpm are available on request.



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