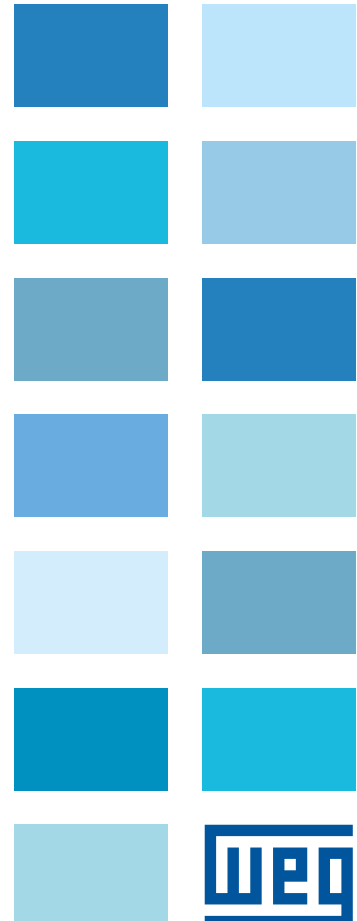


# WQuattro

## Super Premium Efficiency Motor

- Highest efficiency in the market
- Exceeds upcoming IE4 efficiency levels
- Low CO<sub>2eq</sub> emissions

**new**



## WQuattro

The WQuattro line was developed for users who consider energy saving a priority. The WQuattro is an environmentally friendly motor that due to its very efficient performance will demand less energy from the grid. That will translate into a low total cost of ownership and the reduction of CO<sub>2eq</sub> emissions.

WQuattro is a hybrid motor with squirrel cage rotor fitted with high energy permanent magnets making it suitable for direct on line start.

For variable speed applications it can be used with inverters with scalar control. Super Premium Efficiency and flexibility will guarantee a faster return on the investment.

### Features

- Output: 0,37 up to 7,5 kW;
- Frame: 80 up to 132M/L;
- Insulation class: F;
- Voltage: 525 or 550 V;
- Polarity: 4 and 6 poles;
- Color: RAL 7012;
- Squirrel cage rotor and high energy permanent magnets (NdFeB);
- Synchronous speed (operation);
- D.O.L. starting, as an induction motor;
- Suitable for variable speed applications with scalar control;
- W22 mechanical platform;
- Exceeds IE4 efficiency levels.

### Benefits

- Interchangeable with induction motors (same output x frame ratio);
- No need for sensors/encoder in applications with frequency inverters;
- No need for special protection overload relays;
- Low bearing temperature – extended life and less maintenance;
- Easy speed synchronization with multiple motors fed by the same inverter;

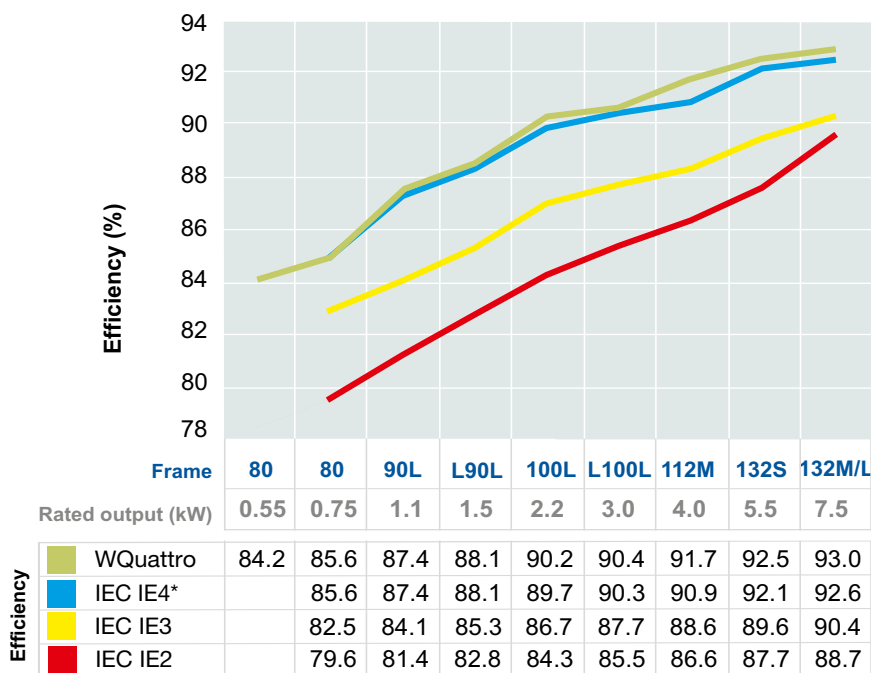
### Higher efficiency in the same frame size



### CEMEP, NEMA, IEC 60034-30 and WEG Comparison

	CEMEP (equivalent)	NEMA	IEC 60034-30	WEG
Super Premium Efficiency	-	-	IE4*	WQuattro Super Premium Efficiency (exceeds IE4)
Premium Efficiency	-	NEMA Premium	IE3	W22 Top Premium Efficiency
High Efficiency	Eff1	EPAAct	IE2	W22 Premium Efficiency Plus
Standard Efficiency	Eff2	-	IE1	W22 Standard Efficiency
Below Standard Efficiency	Eff3	-	-	-

### Efficiency - 4 poles - 50 Hz - IEC



\* Upcoming IE4 levels  
Efficiency values shown are according to IEC60034-31 ed 1 - DTS - FE

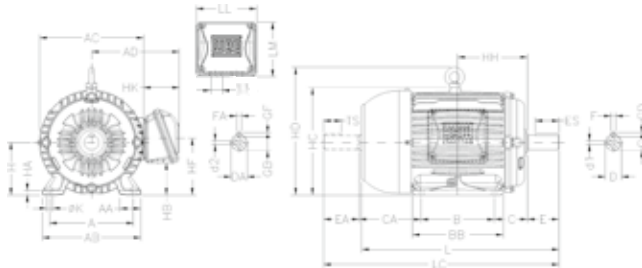
## Electrical Features

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current I <sub>L</sub> /I <sub>n</sub>	Locked Rotor Torque T <sub>L</sub> /T <sub>n</sub>	Break-down Torque T <sub>b</sub> /T <sub>n</sub>	Inertia J (kgm <sup>2</sup> )	Maximum load inertia J <sub>c</sub> (kgm <sup>2</sup> )	Weight (kg)	Rated speed (rpm)	Efficiency			Power Factor			Full load current I <sub>n</sub> (A)	
kW	HP										% of full load						525 V	550 V
											50	75	100	50	75	100		
IV poles - 1500 rpm - 50 Hz																		
0.55	0.75	80	3.50	6.0	2.2	1.8	0.0022	0.0660	15.1	1500	81.7	84.0	84.2	0.57	0.71	0.79	0.907	0.865
0.75	1	80	4.78	6.1	2.4	2.3	0.0025	0.0750	15.5	1500	79.0	84.0	85.6	0.58	0.74	0.82	1.18	1.13
1.1	1.5	90L	7.01	7.0	3.0	2.0	0.0050	0.1500	23.0	1500	82.0	86.0	87.4	0.55	0.68	0.76	1.82	1.74
1.5	2	L90L	9.55	6.7	3.2	1.8	0.0058	0.1740	23.2	1500	83.5	86.8	88.1	0.53	0.66	0.74	2.53	2.41
2.2	3	100L	14.0	7.3	3.6	2.2	0.0080	0.2400	33.2	1500	86.0	89.0	90.2	0.67	0.80	0.87	3.09	2.95
3	4	L100L	19.1	6.6	3.5	1.9	0.0095	0.2850	33.8	1500	86.5	89.5	90.4	0.60	0.75	0.82	4.45	4.25
4	5.5	112M	25.5	6.3	3.1	2.0	0.0153	0.3510	41.8	1500	89.0	91.0	91.7	0.68	0.81	0.88	5.45	5.20
5.5	7.5	132S	35.0	8.2	3.8	2.5	0.0497	1.49	43.7	1500	89.0	92.0	92.5	0.76	0.88	0.93	7.03	6.71
7.5	10	132M/L	47.8	7.8	3.8	2.2	0.0606	1.82	61.5	1500	90.5	92.2	93.0	0.77	0.88	0.93	9.52	9.09

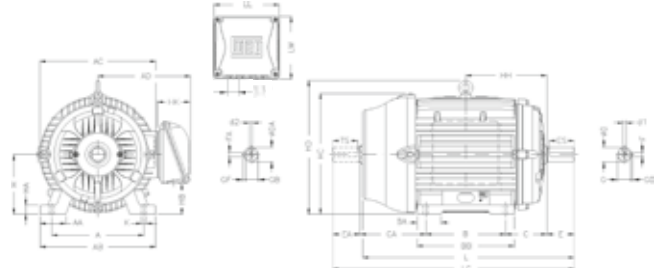
VI poles - 1000 rpm - 50 Hz																		
0.37	0.5	80	3.54	4.6	2.8	2.7	0.0024	0.0720	15.0	1000	66.6	75.5	79.6	0.37	0.53	0.66	0.775	0.739
0.55	0.75	80	5.26	4.3	2.7	2.2	0.0026	0.0780	16.0	1000	68.1	76.3	80.0	0.38	0.54	0.67	1.13	1.08
0.75	1	90S	7.17	5.2	2.5	1.6	0.0045	0.1350	22.0	1000	75.0	81.1	83.4	0.41	0.59	0.71	1.39	1.33
1.1	1.5	90L	10.5	5.2	2.8	1.7	0.0052	0.1560	24.0	1000	75.4	81.6	84.1	0.40	0.57	0.70	2.05	1.96
1.5	2	100L	14.3	5.1	3.2	2.4	0.0081	0.2430	30.0	1000	81.3	85.7	87.6	0.49	0.63	0.74	2.54	2.43
2.2	3	112M	21.0	5.0	2.3	1.7	0.0105	0.3150	39.0	1000	83.7	86.5	87.1	0.58	0.72	0.80	3.47	3.31
3	4	132S	28.7	5.7	3.5	2.2	0.0329	0.9870	55.0	1000	86.6	89.6	90.7	0.55	0.69	0.77	4.72	4.51
4	5.5	132M	38.2	5.5	3.5	2.1	0.0390	1.17	59.0	1000	87.4	90.1	91.0	0.53	0.67	0.76	6.36	6.07
5.5	7.5	132M/L	52.6	4.9	3.4	1.7	0.0436	1.31	63.0	1000	87.6	90.1	90.9	0.50	0.65	0.73	9.11	8.70
Optional Frames																		
4	5.5	132S	38.2	5.5	3.5	2.1	0.0390	1.17	59.0	1000	87.4	90.1	91.0	0.53	0.67	0.76	6.36	6.07
5.5	7.5	132S	52.6	4.9	3.4	1.7	0.0436	1.31	63.0	1000	87.6	90.1	90.9	0.50	0.65	0.73	9.11	8.70

## Mechanical features

### Frames 80 to 112



### Frame 132



Frame	A	AA	AB	AC	AD	B	BA	BB	C	CA	Shaft																						
											D	DA	E	EA	ES	F	FA	G	GB	GD	GF	TS											
80	125	30.5	149	159	139	100		125.5	50	93	19j6	14j6	40	30	28	6	5	15.5	11	6	5	18											
90S	140	36.5	164	179	157			131	56	104	24j6	16j6	50	40	36			8	20	13			7	6	36								
90L						156	173	63								118	28j6				22j6	60				50	45	6	24	18.5	7	6	36
L90L						177																											
100L	160	40	188	199	167	140		187	89	150	38k6	28j6	80	60	63	10	8	33	24	8	7	45											
L100L	216	51	248	271	218			225															89	150	38k6	28j6	80	60	63	10	8	33	24
112M	190	40.5	220	222	192	140		187	89	150	38k6	28j6	80	60	63	10	8	33	24	8	7	45											
132S	216	51	248	271	218			225															89	150	38k6	28j6	80	60	63	10	8	33	24
132M	216	51	248	271	218	178		225	89	150	38k6	28j6	80	60	63	10	8	33	24	8	7	45											
132M/L								225															89	150	38k6	28j6	80	60	63	10	8	33	24

Frame	H	HA	HB	HC	HD	HF	HH	HK	K	L	LC	LL	LM	S1	d1	d2	Bearings						
																	D.E.	N.D.E.					
80	80	8	43.5	163		87	100	59	10	276	313	276	313		M6	M4	6204 - ZZ	6203 - ZZ					
90S	90	9	45	182		90	106	67		79	304	350	115		104			M8	M6	6205 - ZZ	6204 - ZZ		
90L					118.5	329	375		376		431	M10		M8								6206 - ZZ	6205 - ZZ
L90L					133	420	475																
100L	100	10	61.5	205	244	106.4	133	376	431	140	133												
L100L	112		54.5	235	280	112	140	420	475											393	448	140	133
112M	112		54.5	235	280	112	140	159	79	12	452	519	140	133									
132S	132	20	75	266	319	132	178	178														191	490
132M	132	20	75	266	319	132	178	191	79	12	515	582	140	133									
132M/L																						191	515

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