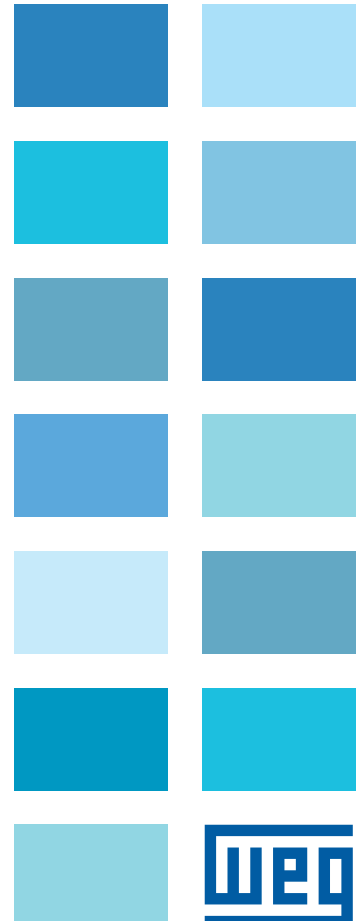


WQuattro

Super Premium Efficiency Motor

- Highest efficiency in the market
- Exceeds upcoming IE4 efficiency levels
- Low CO_{2eq} 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_{2eq} 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 132 M/L;
- Insulation class: F;
- Voltage: 230/400, 400/690 or 525 V;
- Polarity: 4 and 6 poles;
- Color: RAL 6021;
- 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

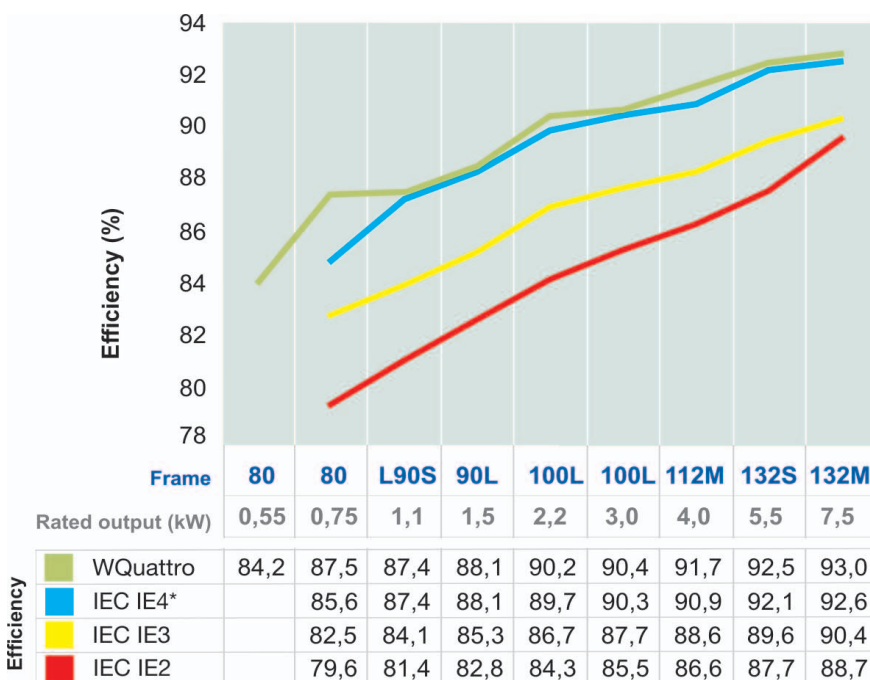
- Interchangeable with induction motors (same output x frame ratio);
- No need for sensors/encoder in applications with frequency inverters;
- No need for special protection overload relays;
- Low bearing temperature – extended life and less maintenance;
- Wide speed variation range with constant torque;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



CEMEP, NEMA, IEC 60034-30 and WEG Comparison

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

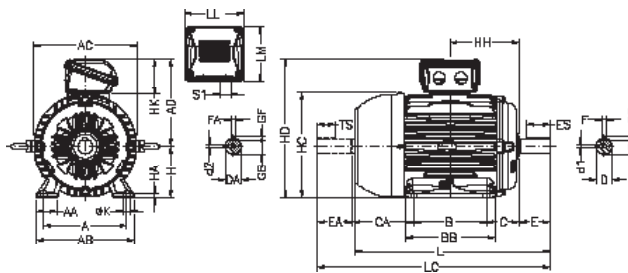
Electrical Features

Output		Frame	Full Load Torque (Nm)	Locked Rotor Current I _L /I _n	Locked Rotor Torque T _L /T _n	Break-down Torque T _b /T _n	Inertia J (kgm ²)	Weight (kg)	400 V							
									Rated speed (rpm)	% of full load			Full load current I _n (A)			
										Efficiency		Power Factor				
kW	HP									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	0,002	15,1	1500	81,7	84,0	84,2	0,57	0,71	0,79	1,19
0,75	1	80	4,78	6,1	2,4	2,3	0,003	15,5	1500	83,0	86,5	87,5	0,55	0,70	0,80	1,55
1,1	1,5	L90S	7,01	7,0	3,0	2,0	0,005	23,0	1500	82,0	86,0	87,4	0,55	0,68	0,76	2,39
1,5	2	90L	9,55	6,7	3,2	1,8	0,005	23,2	1500	83,5	86,8	88,1	0,53	0,66	0,74	3,32
2,2	3	100L	14,0	7,3	3,6	2,2	0,008	33,2	1500	86,0	89,0	90,2	0,67	0,80	0,87	4,05
3	4	100L	19,1	6,6	3,5	1,9	0,008	33,8	1500	86,5	89,5	90,4	0,60	0,75	0,82	5,84
4	5,5	112M	25,5	6,3	3,1	2,0	0,012	41,8	1500	89,0	91,0	91,7	0,68	0,81	0,88	7,15
5,5	7,5	132S	35,0	8,2	3,8	2,5	0,042	43,7	1500	89,0	92,0	92,5	0,76	0,88	0,93	9,23
7,5	10	132M	47,8	7,8	3,8	2,2	0,050	61,5	1500	90,5	92,2	93,0	0,77	0,88	0,93	12,5
Optional Frames																
1,1	1,5	90L	7,01	7,0	3,0	2,0	0,0050	23,0	1500	82,0	86,0	87,4	0,55	0,68	0,76	2,39
7,5	10	132S	47,8	7,8	3,8	2,2	0,0496	61,5	1500	90,5	92,2	93,0	0,77	0,88	0,93	12,5
VI poles - 1000 rpm - 50 Hz																
0,37	0,5	80	3,54	4,6	2,8	2,7	0,002	15,0	1000	66,6	75,5	79,6	0,37	0,53	0,66	1,02
0,55	0,75	80	5,26	4,3	2,7	2,2	0,003	16,0	1000	68,1	76,3	80,0	0,38	0,54	0,67	1,48
0,75	1	90S	7,17	5,2	2,5	1,6	0,005	22,0	1000	75,0	81,1	83,4	0,41	0,59	0,71	1,83
1,1	1,5	90L	10,5	5,2	2,8	1,7	0,005	24,0	1000	75,4	81,6	84,1	0,40	0,57	0,70	2,70
1,5	2	100L	14,3	5,1	3,2	2,4	0,007	30,0	1000	81,3	85,7	87,6	0,49	0,63	0,74	3,34
2,2	3	112M	21,0	5,0	2,3	1,7	0,010	39,0	1000	83,7	86,5	87,1	0,58	0,72	0,80	4,56
3	4	132S	28,7	5,7	3,5	2,2	0,033	55,0	1000	86,6	89,6	91,0	0,58	0,73	0,81	7,83
4	5,5	132M	38,2	5,5	3,5	2,1	0,039	59,0	1000	87,4	90,1	90,9	0,58	0,72	0,78	11,2
5,5	7,5	132M/L	52,6	4,9	3,4	1,7	0,044	63,0	1000	87,6	90,1	91,0	0,56	0,70	0,78	11,2
Optional Frames																
3	4	132S	28,7	5,7	3,5	2,2	0,0329	55,0	1000	86,6	89,6	90,7	0,58	0,73	0,82	5,82
4	5,5	132S	38,2	5,5	3,5	2,1	0,0390	59,0	1000	87,4	90,1	91,0	0,58	0,72	0,81	7,83
5,5	7,5	132S	52,6	4,9	3,4	1,7	0,0436	63,0	1000	87,6	90,1	90,9	0,56	0,70	0,78	11,2

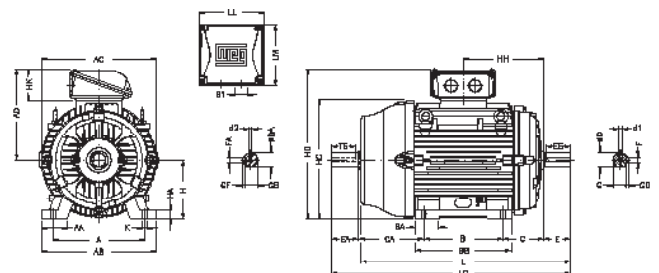
Maximum allowable load inertia limited to 30 times the motor inertia

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	
L90S	140	36.5	164	179	157		-	132	56	104	24j6	16j6	50	40	36	8	6	20	13	7	6	36	
90L						-	156	22j6	24j6	60	50	45	18.5	20									
100L	160	40	188	199	167	140	-	173	63	118	28j6	22j6	60	50	45	8	6	24	18.5	20	7	6	36
112M	190	40.5	220	222	192		-	177	70	128													
132S	216	51	248	271	218	55	187	89	150	38k6	28j6	80	60	63	10	8	33	24	8	7	45		
132M																						178	225
132M/L						178	225	89	150	38k6	28j6	80	60	63	10	8	33	24	8	7	45		

Frame	H	HA	HC	HD	HH	HK	K	L	LC	LL	LM	S1	d1	d2	Bearings	
															D.E.	N.D.E.
80	80	8	163	-	100	59	10	276	313	108	98	2xM20x1.5	M6	M4	6204 - ZZ	6203 - ZZ
L90S	90	9	182	-	106	67		335	381	115	104	104	2xM25x1.5	M8	M6	6205 - ZZ
90L				-	118.5		329	375	376							
100L	100	10	205	244	133	79	12	393	448	140	133	2xM32x1.5	M12	M10	6207 - ZZ	6206 - ZZ
112M	112		235	280	140			159	452						519	140
132S	132	20	266	319	178	490	557	140	133	2xM32x1.5	M12	M10	6308 - ZZ	6207 - ZZ		
132M					178	490	557									
132M/L					191	515	582									

WEG Worldwide Operations

ARGENTINA

WEG EQUIPAMIENTOS
ELECTRICOS S.A.
(Headquarters San
Francisco-Cordoba)
Sgo. Pampiglione 4849
Parque Industrial San Francisco
2400 - San Francisco
Phone(s): +54 (3564) 421484
Fax: +54 (3564) 421459
info-ar@weg.net
www.weg.net/ar

AUSTRALIA

WEG AUSTRALIA PTY. LTD.
3 Dalmore Drive
Carribean Park Industrial Estate
Scoresby VIC 3179 - Melbourne
Phone(s): 61 (3) 9765 4600
Fax: 61 (3) 9753 2088
info-au@weg.net
www.weg.net/au

BELGIUM

WEG BENELUX S.A.
Rue de l'Industrie 30 D,
1400 Nivelles
Phone(s): + 32 (67) 88-8420
Fax: + 32 (67) 84-1748
info-be@weg.net
www.weg.net/be

CHILE

WEG CHILE S.A.
Los Canteros 8600
La Reina - Santiago
Phone(s): (56-2) 784 8900
Fax: (56-2) 784 8950
info-cl@weg.net
www.weg.net/cl

CHINA

WEG (NANTONG) ELECTRIC
MOTOR MANUFACTURING CO.,
LTD.
No. 128# - Xinkai South Road,
Nantong Economic &
Technical Development Zone,
Nantong, Jiangsu Province.
Phone(s): (86) 0513-85989333
Fax: (86) 0513-85922161
info-cn@weg.net
www.weg.net/cn

COLOMBIA

WEG COLOMBIA LTDA
Calle 46A N82 - 54
Porteria II - Bodega 7 - San
Cayetano II - Bogotá
Phone(s): (57 1) 416 0166
Fax: (57 1) 416 2077
info-co@weg.net
www.weg.net/co

FRANCE

WEG FRANCE SAS
ZI de Chenes - Le Loup
13 Rue du Morellon - BP 738
38297 Saint Quentin Fallavier
Phone(s): +33 (0) 4 74 99 11 35
Fax: +33 (0) 4 74 99 11 44
info-fr@weg.net
www.weg.net/fr

GERMANY

WEG GERMANY GmbH
Industriegebiet Türnich 3
Geigerstraße 7
50169 Kerpen-Türnich
Phone(s): +49 (0)2237/9291-0
Fax: +49 (0)2237/9292-200
info-de@weg.net
www.weg.net/de

INDIA

WEG Electric (India) Pvt. Ltd.
#38, Ground Floor, 1st Main
Road, Lower Palace Orchards,
Bangalore - 560 003
Phone(s): +91-80-4128 2007
+91-80-4128 2006
Fax: +91-80-2336 7624
info-in@weg.net
www.weg.net/in

ITALY

WEG ITALIA S.R.L.
V.le Brianza 20 - 20092 - Cinisello
Balsamo - Milano
Phone(s): (39) 02 6129-3535
Fax: (39) 02 6601-3738
info-it@weg.net
www.weg.net/it

JAPAN

WEG ELECTRIC MOTORS
JAPAN CO., LTD.
Yokohama Sky Building 20F,
2-19-12 Takashima,
Nishi-ku, Yokohama City,
Kanagawa, Japan 220-001
Phone: (81) 45 440 6063
info-jp@weg.net
www.weg.net/jp

MEXICO

WEG MEXICO, S.A. DE C.V.
Carretera Jorobas-Tula Km. 3.5,
Manzana 5, Lote 1
Fraccionamiento Parque
Industrial - Huehuetoca,
Estado de México - C.P. 54680
Phone(s): + 52 (55) 5321 4275
Fax: + 52 (55) 5321 4262
info-mx@weg.net
www.weg.net/mx

NETHERLANDS

WEG NETHERLANDS
Sales Office of
WEG Benelux S.A.
Hanzepoort 23C
7575 DB Oldenzaal
Phone(s): +31 (0) 541-571080
Fax: +31 (0) 541-571090
info-nl@weg.net
www.weg.net/nl

PORTUGAL

WEG EURO - INDÚSTRIA
ELÉCTRICA, S.A.
Rua Eng. Frederico Ulrich
Apartado 6074
4476-908 - Maia
Phone(s): +351 229 477 705
Fax: +351 229 477 792
info-pt@weg.net
www.weg.net/pt

RUSSIA

WEG RUSSIA
Russia, 194292, St.Petersburg,
Prospekt Kultury 44, office 404
Phone(s): +7(812)363-21-72
Fax: +7(812)363-21-73
info-ru@weg.net
www.weg.net/ru

SPAIN

WEG IBERIA S.L.
Avenida de la Industria,25
28823 Coslada - Madrid
Phone(s) : (34) 916 553 008
Fax : (34) 916 553 058
info-es@weg.net
www.weg.net/es

SINGAPORE

WEG SINGAPORE PTE LTD
159, Kampong Ampat,
#06-02A KA PLACE.
Singapore 368328.
Phone(s): +65 6858 9081
Fax: +65 6858 1081
info-sg@weg.net
www.weg.net/sg

SWEDEN

WEG SCANDINAVIA AB
Box 10196
Verkstadgatan 9
434 22 Kungsbacka
Phone(s): (46) 300 73400
Fax: (46) 300 70264
info-se@weg.net
www.weg.net/se

UK

WEG ELECTRIC
MOTORS (U.K.) LTD.
28/29 Walkers Road
Manorside Industrial Estate
North Moons Moat - Redditch
Worcestershire B98 9HE
Phone(s): 44 (0)1527 596-748
Fax: 44 (0)1527 591-133
info-uk@weg.net
www.weg.net/uk

UNITED ARAB EMIRATES

WEG MIDDLE EAST FZE
JAFZA - JEBEL ALI FREE ZONE
Tower 18, 19th Floor,
Office LB 18 1905
P.O. Box 262508 - Dubai
Phone: +971 (4) 8130800
Fax: +971 (4) 8130811
info-ae@weg.net
www.weg.net/ae

USA

WEG ELECTRIC CORP.
6655 Sugarloaf Parkway,
Duluth, GA 30097
Phone(s): 1-678-249-2000
Fax: 1-770-338-1632
info-us@weg.net
www.weg.net/us

VENEZUELA

WEG INDUSTRIAS VENEZUELA C.A.
Avenida 138-A
Edificio Torre Banco Occidental de
Descuento, Piso 6 Oficina 6-12
Urbanizacion San Jose de Tarbes
Zona Postal 2001
Valencia, Edo. Carabobo
Phone(s): (58) 241 8210582
(58) 241 8210799
(58) 241 8211457
Fax: (58) 241 8210966
info-ve@weg.net
www.weg.net/ve



WEG Equipamentos Elétricos S.A.
International Division
Av. Prefeito Waldemar Grubba, 3000
89256-900 - Jaraguá do Sul - SC - Brazil
Phone: 55 (47) 3276-4002
Fax: 55 (47) 3276-4060
www.weg.net

