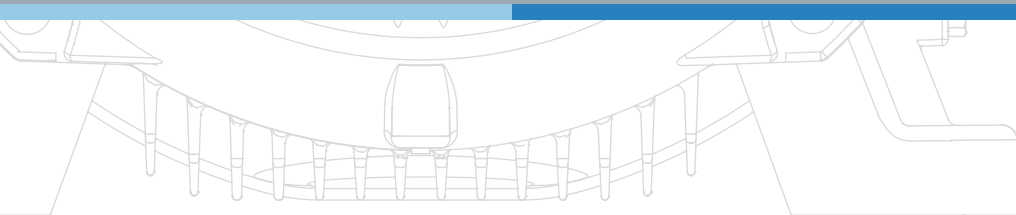
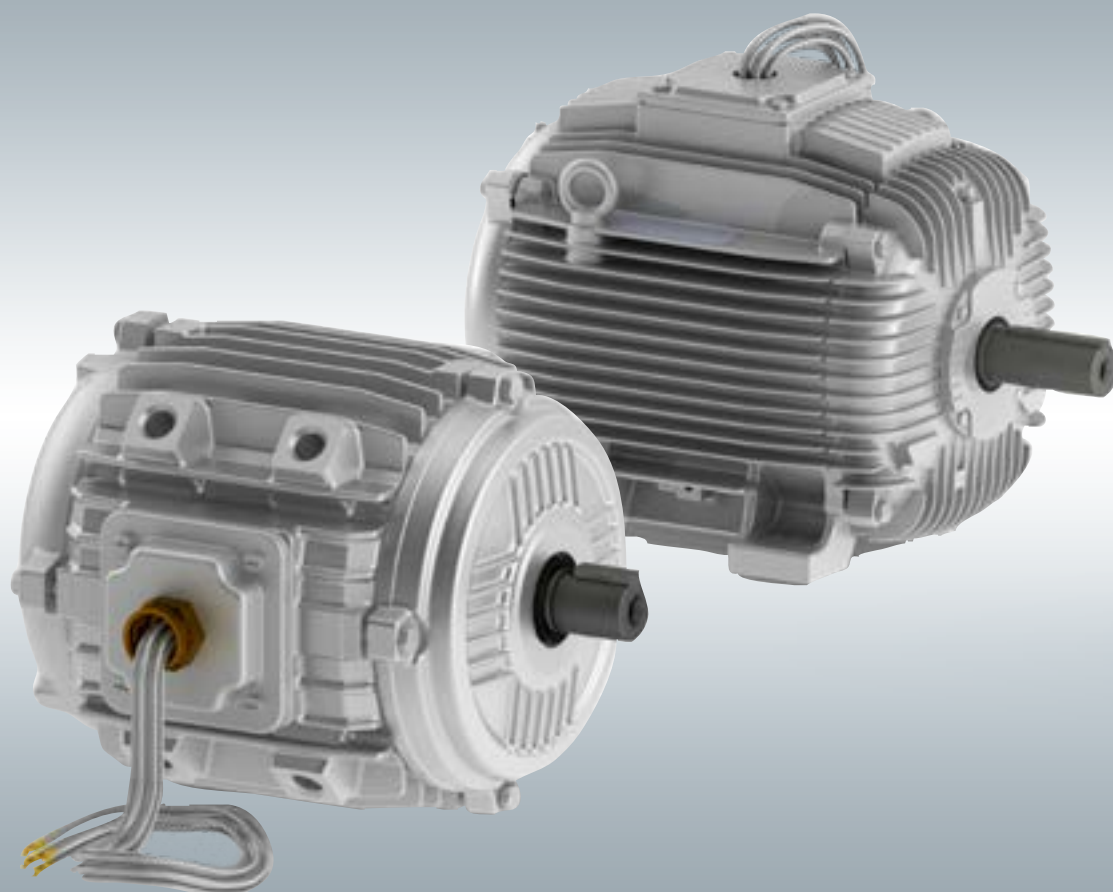
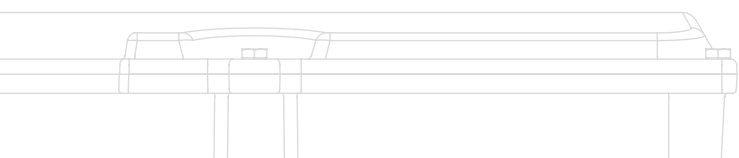


W21 Smoke Extraction

Motor for Smoke Exhaustion

Asian Market



Motors | Automation | Energy | Transmission & Distribution | Coatings

W21 Smoke Extraction

Ensuring security in business and industrial installations is one of the main concerns of designers and company owners in the conception of business centers, factories, warehouses, parking garages, tunnels and other places with great concentration of people.

The Smoke Extraction motors were developed so as to ensure the air circulation in closed environments. In emergency situations, they withstand operation at high temperatures and ensure fast smoke extraction and heat, besides delaying the fire propagation, allowing free access to the emergency exits.



Smoke Type TEAO-B3
Frames 80 to 355M/L



Smoke Type TEAO-B30*
Frames 80 to 250S/M

*B30 Motor is available based on special request, please contact WEG



W21 Smoke Extraction Characteristics

- Efficiency: IE1, IE2 and IE3 (according to IEC 60034-30-1)
- Power: 0.12 to 330kW
- Polarity: 2 to 8 (10 and 12 are available as special)
- Frequency: 50Hz
- Voltage: 220-240/380-415 V (up to 100L)
380-415/660 V (from 112M and up)
(optionally available in other voltages)
- Frames: 80 to 355M/L
- Colour: RAL 9006 - Silver
- Impregnation system of the winding special to withstand high temperatures
- Terminal block special to withstand high temperatures (special)
- Motors available in the mounting B3 with TEAO cooling type as standard, B30 (Pad mounted) from frame 80 to 250S/M is available as special request
- Motors are available to operate in the maximum temperatures: 200 C (2 hours), 250 C (1 and 2 hours) and 300 C (1 and 2 hours).

WISE® (WEG Insulation System Evolution)

Motor able to operate with frequency inverter*, thanks to the exclusive insulation system WISE®, developed by WEG, which enhances the winding insulation resistance.

**Insulation for voltages above 575 V, upon consultation.*

Operating with a frequency inverter, the ventilation and air circulation systems may **save up to 70% of electric energy.**



Standard Features

Frame size		80	90S	90L	100L	112M	132S	132M	132M/L ⁽¹⁾	
Mechanical features										
Detail 1	Smoke Extraction 200°C/2h	200°C-2h								
	Smoke Extraction 250°C/1h	250°C-1h								
	Smoke Extraction 250°C/2h	250°C-2h								
	Smoke Extraction 300°C/1h	300°C-1h								
	Smoke Extraction 300°C/2h	300°C-2h								
Mounting		B3T								
Frame	Material	FC-200 Cast Iron								
Degree of Protection (IP rating)		IP55								
Grounding		Single Grounding								
Cooling Method (IC)		Totally enclosed Air Over TEAO								
Fan	Material	None								
Fan Cover	Material	None								
Endshields	Material	FC-200 Cast Iron								
Drain		Fitted with closed rubber drain plug								
Bearings	Shielded/Clearance (DE)	ZZ-C3(ZZ- C4 for 300°C /2h and 300°C /1h)								
	Shielded/Clearance (NDE)	ZZ-C3(ZZ- C4 for 300°C /2h and 300°C /1h)								
	Locating bearing configuration	DE bearing locked with inner bearing cap and fitted with wave washer in the NDE bearing								
	Bearing life (h)	20000h								
	Drive end	2P	6204	6205	6205	6206	6307	6308	6308	6308
Non-drive end	2P	6203	6204	6204	6205	6206	6207	6207	6207	
	4-12P									
Bearing Seal		V'ring								
Joint Seal		None								
Lubrication	Grease Type	Mobil Polyrex EM								
	Grease fitting	None								
Terminal Block		None								
Terminal Box	Material	FC-200 Cast Iron								
	Type/Model	Base								
Leads inlet	Base	M20 x 1.5				M25 x 1.5				
	Plug	None								
Shaft	Material		SAE 1040/45							
	DE Threaded bore	2P	M6	M8	M8	M10	M10	M12	M12	M12
		4-12P								
Key		Fitted with "A" type								
Vibration Level		Grade A								
Balancing	2P	None	With 1/2 key							
	4-12P	With 1/2 key								
Nameplate	Material	Stainless Steel AISI 304								
Painting	Plan	207A								
	Colour	RAL 9006								
Packaging		Cardboard box								
Certificate		Without								
Electrical Features										
Design		N								
Voltage	50Hz	Single Speed	220-240/380-415//440-460 C/W 6 cables				380-415/660//440-460 C/W 6 cables			
	60Hz	Single Speed	220/380 C/W 6 cables				380/660 C/W 6 cables			
Winding	Impregnation		Polyester double impregnat							
	Insulation Class		F (DT 80K) for 200°C/2H, H(DT 80K) for 250°C/1H , 250°C/2H , 300°C/1H , 300°C/2H							
	Leads external length		1000 mm							
Service factor		1.00 (For 50HZ & 60HZ)								
Rotor		Die-cast Aluminium								
Ambient temperature	Maximum	40(for 200°C/2H , 250°C/1H , 250°C/2H , 300°C/1H , 300°C/2H)								
	Minium	-20(for 200°C/2H , 250°C/1H , 250°C/2H , 300°C/1H , 300°C/2H)								
Thermal Protection		None								

Standard Features

Frame size		160M	160L	180M ⁽¹⁾	180L	200M ⁽¹⁾	200L	225S/M	250S/M	280S/M	315S/M	355M/L	
Mechanical features													
Detail 1	Smoke Extraction 200°C/2h	200°C-2h											
	Smoke Extraction 250°C/1h	250°C-1h											
	Smoke Extraction 250°C/2h	250°C-2h											
	Smoke Extraction 300°C/1h	300°C-1h											
	Smoke Extraction 300°C/2h	300°C-2h											
Mounting		B3T											
Frame	Material	FC-200 Cast Iron											
Degree of Protection (IP rating)		IP55											
Grounding		Single Grounding						Double grounding (inside the t-box + 1 in the frame)					
Cooling Method (IC)		Totally enclosed Air Over TEAO											
Fan	Material	None											
Fan Cover	Material	None											
Endshields	Material	FC-200 Cast Iron											
Drain		Fitted with closed rubber drain plug											
Bearings	Shielded/Clearance (DE)	C3(C4 for 300°C /2h and 300°C /1h)											
	Shielded/Clearance (NDE)	C3(C4 for 300°C /2h and 300°C /1h)											
	Locating bearing configuration	DE bearing locked with inner bearing cap and fitted with wave washer in the NDE bearing						DE bearing locked with inner and outer bearing caps and fitted with pre-load springs in the NDE bearing					
	Bearing life (h)	20000h											
	Drive end	2P	6309	6309	6311	6311	6312	6312	6314	6314	6314	6314	6316
Non-drive end	4-12P							6316			6319	6322	
	Non-drive end	2P	6209	6209	6211	6211	6212	6212	6314	6314	6314	6314	6314
4-12P								6316			6316	6319	
Bearing Seal		V'ring											
Joint Seal		None											
Lubrication	Grease Type	Mobil Polyrex EM											
	Grease fitting	With grease fittings in DE and NDE bearings											
Terminal Block		None											
Terminal Box	Material	FC-200 Cast Iron											
	Type/Model	Base											
Leads inlet	Base	M32 x 1.5			M40 x 1.5			M50 x 1.5		M63 x 1.5		M80 x 2	
	Plug	None											
Shaft	Material		SAE 1040/45										
	DE Threaded bore	2P	M16	M16	M16	M16	M20	M20	M20	M20	M20	M20	M20
		4-12P											M24
Key		Fitted with "A" type						Fitted with "B" type					
Vibration Level		Grade A											
Balancing	2P	With 1/2 key											
	4-12P	With 1/2 key											
Nameplate	Material	Stainless Steel AISI 304											
Painting	Plan	203A											
	Colour	RAL 9006											
Packaging		Crate											
Certificate		Without											
Electrical Features													
Design		N											
Voltage	50Hz	Single Speed	380-415/660//440-460 C/W 6 cables										
	60Hz	Single Speed	380/660 C/W 6 cables										
Winding	Impregnation		Polyester double impregnat					Continuos resin flow impregnation					
	Insulation Class		F (DT 80K) for 200°C/2H, H(DT 80K) for 250°C/1H , 250°C/2H , 300°C/1H , 300°C/2H										
	Leads external length		1000 mm										
Service factor		1.00 (For 50HZ & 60HZ)											
Rotor		Die-cast Aluminium											
Ambient temperature	Maximum	40(for 200°C/2H , 250°C/1H , 250°C/2H , 300°C/1H , 300°C/2H)											
	Minium	-20(for 200°C/2H , 250°C/1H , 250°C/2H , 300°C/1H , 300°C/2H)											
Thermal Protection		None											

W21 Smoke Extraction - Standard Efficiency (IE1)

Table with 21 columns: Output (kW, HP), Frame, Full Load Torque, Locked Rotor Current, Locked Rotor Torque, Break-down Torque, Inertia J, Allowable locked rotor time (Hot, Cold), Weight, Sound dB(A), Rated speed, % of full load (Efficiency, Power Factor), Full load current. Includes VIII Poles and High-Output Design sections.

W21 Smoke Extraction - Standard Efficiency (IE1)

Table with 21 columns: Output (kW, HP), Frame, Full Load Torque, Locked Rotor Current, Locked Rotor Torque, Break-down Torque, Inertia J, Allowable locked rotor time (Hot, Cold), Weight, Sound dB(A), Rated speed, % of full load (Efficiency, Power Factor), Full load current. Includes VIII Poles and High-Output Design sections.

W21 Smoke Extraction - High Efficiency (IE2)

Table with 22 columns: Output (kW, HP), Frame, Full Load Torque, Locked Rotor Current, Locked Rotor Torque, Break-down Torque, Inertia J, Allowable locked rotor time (Hot, Cold), Weight, Sound dB(A), Rated speed, % of full load (Efficiency, Power Factor), Full load current. Includes 400V data and High-Output Design section.

W21 Smoke Extraction - High Efficiency (IE2)

Table with 22 columns: Output (kW, HP), Frame, Full Load Torque, Locked Rotor Current, Locked Rotor Torque, Break-down Torque, Inertia J, Allowable locked rotor time (Hot, Cold), Weight, Sound dB(A), Rated speed, % of full load (Efficiency, Power Factor), Full load current. Includes 380V and 415V data and High-Output Design section.

W21 Smoke Extraction - High Efficiency (IE2)

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/Ln	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	400 V			Weight (kg)	Sound dB(A)	Rated speed (rpm)	% of full load						Full load current In (A)
								Allowable locked rotor time (s)		Efficiency				Power Factor						
										Hot				Cold	50	75	100	50	75	
								kW	HP											
VI Poles																				
0.37	0.5	80	0.400	3.9	1.8	2.0	0.0022	27	59	13.9	43.0	910	63.0	67.0	67.6	0.47	0.62	0.72	1.10	
0.55	0.75	80	0.580	4.5	2.1	2.2	0.0030	21	46	17.3	43.0	920	65.0	71.0	73.1	0.50	0.62	0.72	1.51	
0.75	1	90S	0.790	4.5	2.0	2.1	0.0055	23	51	21.3	45.0	925	74.5	76.0	76.0	0.51	0.64	0.73	1.95	
1.1	1.5	90L	1.16	4.7	2.3	2.2	0.0066	17	37	26.9	45.0	925	76.0	78.1	78.1	0.50	0.63	0.73	2.78	
1.5	2	100L	1.55	5.0	2.0	2.4	0.0110	23	51	29.3	44.0	940	79.5	80.0	80.0	0.51	0.64	0.73	3.71	
2.2	3	112M	2.26	6.2	2.4	2.6	0.0224	16	35	43.5	49.0	950	80.5	82.7	82.7	0.52	0.64	0.72	5.26	
3	4	132S	3.04	5.7	2.0	2.4	0.0359	31	68	61.6	53.0	960	82.5	83.6	83.6	0.50	0.63	0.71	7.30	
4	5.5	132M	4.06	6.0	2.1	2.5	0.0453	21	46	63.2	53.0	960	84.0	84.8	84.8	0.51	0.64	0.72	9.46	
5.5	7.5	132M	5.58	6.4	2.2	2.7	0.0604	19	42	76.0	53.0	960	85.5	86.1	86.1	0.51	0.64	0.72	12.8	
7.5	10	160M	7.57	6.6	2.5	2.9	0.1055	71	156	97.8	57.0	965	86.5	87.3	87.3	0.61	0.74	0.81	15.3	
9.2	12.5	160L	9.24	6.2	2.5	2.7	0.1266	10	22	118	57.0	970	88.0	88.3	88.3	0.60	0.73	0.80	18.8	
11	15	160L	11.1	7.0	2.4	2.7	0.1407	10	22	132	57.0	970	88.5	89.0	89.0	0.58	0.72	0.79	22.6	
15	20	180L	15.0	8.5	2.8	3.5	0.3381	6	13	167	56.0	975	89.0	89.7	89.7	0.68	0.80	0.86	28.1	
18.5	25	200L	18.5	6.3	2.3	2.5	0.3335	10	22	212	58.0	975	90.8	91.0	91.0	0.67	0.72	0.78	37.6	
22	30	200L	22.0	6.2	2.3	2.6	0.3868	10	22	226	58.0	975	91.0	91.2	91.2	0.65	0.75	0.82	42.5	
30	40	225S/M	29.7	7.0	2.3	2.6	0.8328	10	22	330	61.0	985	92.0	92.2	92.2	0.70	0.79	0.84	55.9	
37	50	225S/M	36.6	7.0	2.5	2.6	1.02	10	22	400	61.0	985	92.0	92.6	92.6	0.72	0.81	0.84	68.7	
37	50	250S/M	36.6	7.0	2.5	2.6	1.02	10	22	400	61.0	985	92.0	92.6	92.6	0.72	0.81	0.84	68.7	
45	60	280S/M	44.5	6.8	2.2	2.7	2.02	10	22	550	66.0	985	93.0	93.2	93.2	0.67	0.77	0.82	85.0	
55	75	280S/M	54.4	6.7	2.1	2.6	2.26	10	22	610	66.0	985	93.0	93.5	93.5	0.67	0.78	0.82	104	
75	100	315S/M	74.2	6.7	2.1	2.4	3.05	10	22	700	69.0	985	93.8	94.0	94.0	0.72	0.81	0.84	137	
90	125	315S/M	89.0	6.5	2.2	2.4	3.59	12	26	830	69.0	985	94.0	94.2	94.2	0.71	0.80	0.83	166	
110	150	315S/M	109	6.5	2.2	2.4	4.93	12	26	1000	69.0	985	94.1	94.6	94.6	0.69	0.79	0.84	200	
132	175	315S/M	131	6.6	2.2	2.5	5.63	12	26	1050	69.0	985	94.0	94.5	94.6	0.70	0.79	0.84	239	
150	200	355M/L	148	6.0	1.9	2.2	9.05	81	178	1460	73.0	990	93.5	95.0	95.3	0.65	0.75	0.80	282	
160	220	355M/L	157	6.0	1.9	2.1	9.53	76	167	1460	73.0	990	93.8	95.2	95.3	0.65	0.77	0.81	297	
185	250	355M/L	182	6.0	1.9	2.1	10.2	76	167	1530	73.0	990	94.2	95.2	95.3	0.65	0.75	0.80	350	
200	270	355M/L	197	6.1	2.2	2.3	12.1	28	62	1650	73.0	990	94.5	95.4	95.4	0.66	0.76	0.81	374	
220	300	355M/L	215	6.5	2.0	2.3	13.5	25	55	1800	73.0	995	94.5	95.4	95.4	0.64	0.75	0.80	416	
250	340	355M/L	246	6.1	1.9	2.1	14.8	64	141	1890	73.0	990	94.6	95.2	95.4	0.69	0.78	0.81	463	
260	350	355M/L	256	6.0	1.8	2.0	14.8	64	141	1830	73.0	990	94.6	95.2	95.4	0.69	0.78	0.81	482	
280	380	355M/L*	275	6.0	2.1	2.2	14.8	54	119	1890	73.0	990	94.2	95.3	95.4	0.68	0.77	0.80	530	
300	400	355M/L*	295	6.4	2.1	2.1	14.8	39	86	1920	73.0	990	93.8	95.0	95.5	0.63	0.73	0.79	574	
315	430	355M/L*	310	6.0	1.9	1.9	15.5	38	84	1950	73.0	990	94.2	95.4	95.5	0.69	0.78	0.81	588	
High-Output Design																				
1.5	2	112M	1.55	5.2	2.1	2.3	0.0156	28	62	36.5	49.0	945	80.5	81.0	80.5	0.51	0.64	0.72	3.74	
3	4	132M	3.04	5.7	2.0	2.4	0.0359	31	68	61.6	53.0	960	82.5	83.6	83.6	0.50	0.63	0.71	7.30	
5.5	7.5	160M	5.49	6.3	2.5	2.8	0.1436	18	40	106	57.0	975	87.0	87.0	87.5	0.59	0.72	0.79	11.4	
7.5	10	160L	7.57	6.6	2.5	2.9	0.1055	71	156	97.8	57.0	965	86.5	87.3	87.3	0.61	0.74	0.81	15.3	
132	175	355M/L	130	6.1	1.9	2.2	9.05	90	198	1400	73.0	990	93.4	94.8	95.1	0.67	0.77	0.81	247	

*Motor with class F (105K) temperature rise.

W21 Smoke Extraction - High Efficiency (IE2)

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/Ln	Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	380 V			415 V			Weight (kg)	Sound dB(A)	Rated speed (rpm)	% of full load						Full load current In (A)
								Allowable locked rotor time (s)		Efficiency			Power Factor										
										Hot	Cold	50	75				100	50	75	100			
								kW	HP														
VI Poles																							
0.37	0.5	80	0.400	3.9	1.8	2.0	0.0022	27	59	13.9	43.0	910	63.0	67.0	67.6	0.47	0.62	0.72	1.10				
0.55	0.75	80	0.580	4.5	2.1	2.2	0.0030	21	46	17.3	43.0	920	65.0	71.0	73.1	0.50	0.62	0.72	1.51				
0.75	1	90S	0.790	4.5	2.0	2.1	0.0055	23	51	21.3	45.0	925	74.5	76.0	76.0	0.51	0.64	0.73	1.95				
1.1	1.5	90L	1.16	4.7	2.3	2.2	0.0066	17	37	26.9	45.0	925	76.0	78.1	78.1	0.50	0.63	0.73	2.78				
1.5	2	100L	1.55	5.0	2.0	2.4	0.0110	23	51	29.3	44.0	940	79.5	80.0	80.0	0.51	0.64	0.73	3.71				
2.2	3	112M	2.26	6.2	2.4	2.6	0.0224	16	35	43.5	49.0	950	80.5	82.7	82.7	0.52	0.64	0.72	5.26				
3	4	132S	3.04	5.7	2.0	2.4	0.0359	31	68	61.6	53.0	960	82.5	83.6	83.6	0.50	0.63	0.71	7.30				
4	5.5	132M	4.06	6.0	2.1	2.5	0.0453	21	46	63.2	53.0	960	84.0	84.8	84.8	0.51	0.64	0.72	9.46				
5.5	7.5	132M	5.58	6.4	2.2	2.7	0.0604	19	42	76.0	53.0	960	85.5	86.1	86.1	0.51	0.64	0.72	12.8				
7.5	10	160M	7.57	6.6	2.5	2.9	0.1055	71	156	97.8	57.0	965	86.5	87.3	87.3	0.61	0.74	0.81	15.3				
9.2	12.5	160L	9.24	6.2	2.5	2.7	0.1266	10	22	118	57.0	970	88.0	88.3	88.3	0.60	0.73	0.80	18.8				
11	15	160L	11.1	7.0	2.4	2.7	0.1407	10	22	132	57.0	970	88.5	89.0	89.0	0.58	0.72	0.79	22.6				
15	20	180L	15.0	8.5	2.8	3.5	0.3381	6	13	167	56.0	975	89.0	89.7	89.7	0.68	0.80	0.86	28.1				
18.5	25	200L	18.5	6.3	2.3	2.5	0.3335	10	22	212	58.0	975	90.8	91.0	91.0	0.67	0.72	0.78	37.6				
22	30	200L	22.0	6.2	2.3	2.6	0.3868	10	22	226	58.0	975	91.0	91.2	91.2	0.65	0.75	0.82	42.5				
30	40	225S/M	29.7	7.0	2.3	2.6	0.8328	10	22	330	61.0	985	92.0	92.2	92.2	0.70	0.79	0.84	55.9				
37	50	225S/M	36.6	7.0	2.5	2.6	1.02	10	22	400	61.0	985	92.0	92.6	92.6	0.72	0.81	0.84	68.7				
37	50	250S/M	36.6	7.0	2.5	2.6	1.02	10	22	400	61.0	985	92.0	92.6	92.6	0.72	0.81	0.84	68.7				
45	60	280S/M	44.5	6.8	2.2	2.7	2.02	10	22	550	66.0	985	93.0	93.2	93.2	0.67	0.77	0.82	85.0				
55	75	280S/M	54.4	6.7	2.1	2.6	2.26	10	22	610	66.0	985	93.0	93.5	93.5	0.67	0.78	0.82	104				
75	100	315S/M	74.2	6.7	2.1	2.4	3.05	10	22	700	69.0	985	93.8	94.0	94.0	0.72	0.81	0.84	137				
90	125	315S/M	89.0	6.5	2.2	2.4	3.59	12	26	830	69.0	985	94.0	94.2	94.2	0.71	0.80	0.83	166				
110	150	315S/M	109	6.5	2.2	2.4	4.93	12	26	1000	69.0	985	94.1	94.6	94.6	0.69	0.79	0.84	200				
132	175	315S/M	131	6.6	2.2	2.5	5.63	12	26	1050	69.0	985	94.0	94.5	94.6	0.70	0.79	0.84	239				
150	200	355M/L	148	6.0	1.9	2.2	9.05	81	178	1460	73.0	990	93.5	95.0	95.3	0.65	0.75	0.80	282				
160	220	355M/L	157	6.0	1.9	2.1	9.53	76	167	1460	73.0	990	93.8										

W21 Smoke Extraction - High Efficiency (IE2)

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	400 V								
												Rated speed (rpm)	% of full load						Full load current In (A)	
													Efficiency			Power Factor				
													50	75	100	50	75	100		
VIII Poles																				
0.18	0.25	80	0.260	3.1	1.9	2.1	0.0024	48	106	13.8	42.0	670	47.0	53.0	55.0	0.44	0.55	0.65	0.727	
0.25	0.33	80	0.360	3.2	1.9	2.1	0.0029	42	92	14.7	42.0	670	49.0	55.0	57.0	0.43	0.55	0.66	0.959	
0.37	0.5	90S	0.520	3.5	2.1	2.1	0.0044	37	81	22.8	44.0	690	56.0	62.0	62.0	0.41	0.52	0.62	1.39	
0.55	0.75	90L	0.780	3.5	1.9	2.0	0.0060	31	68	24.3	44.0	685	61.0	64.0	64.0	0.44	0.56	0.66	1.88	
0.75	1	100L	1.03	4.6	2.0	2.4	0.0110	42	92	31.8	50.0	710	71.0	74.0	74.0	0.40	0.52	0.62	2.36	
1.1	1.5	100L	1.52	4.6	2.1	2.3	0.0127	29	64	34.2	50.0	705	71.0	75.0	75.0	0.40	0.53	0.62	3.41	
1.5	2	112M	2.09	4.7	2.4	2.3	0.0202	29	64	39.6	46.0	700	77.0	79.0	79.0	0.44	0.57	0.67	4.09	
2.2	3	132S	3.06	5.5	2.2	2.4	0.0592	25	55	57.3	48.0	700	81.0	81.5	81.0	0.52	0.65	0.72	5.44	
3	4	132M	4.17	5.5	2.3	2.4	0.0740	19	42	70.1	48.0	700	82.0	82.5	82.0	0.54	0.66	0.73	7.23	
4	5.5	160M	5.37	5.2	2.2	2.8	0.0985	12	26	95.5	53.0	725	82.0	84.5	84.5	0.44	0.57	0.66	10.4	
5.5	7.5	160M	7.34	5.6	2.5	2.8	0.1266	12	26	118	53.0	730	82.0	85.0	85.0	0.42	0.55	0.65	14.4	
7.5	10	160L	10.1	5.2	2.0	2.4	0.1555	15	33	123	53.0	725	84.0	86.5	86.5	0.52	0.64	0.71	17.6	
9.2	12.5	180M	12.4	7.0	2.2	2.5	0.1906	10	22	156	51.0	725	87.0	87.2	87.2	0.67	0.77	0.83	18.3	
11	15	180L	14.8	7.5	2.4	2.8	0.2620	8	18	183	51.0	725	86.8	87.0	87.0	0.66	0.77	0.82	22.3	
15	20	200L	20.0	5.5	1.8	2.0	0.4228	18	40	239	53.0	730	87.5	88.0	88.0	0.56	0.68	0.74	33.2	
18.5	25	225S/M	24.7	7.4	2.1	2.8	0.8472	18	40	340	60.0	730	89.7	89.8	89.9	0.62	0.74	0.80	37.1	
22	30	225S/M	29.2	7.5	2.2	3.0	0.9884	18	40	365	60.0	735	89.5	90.0	90.5	0.67	0.77	0.82	42.8	
30	40	250S/M	40.0	7.5	2.1	2.8	1.22	17	37	440	60.0	730	90.0	90.0	90.4	0.69	0.79	0.83	57.7	
37	50	280S/M	48.7	7.5	1.9	2.6	2.37	20	44	540	62.0	740	91.0	91.5	91.5	0.60	0.72	0.77	75.8	
45	60	280S/M	59.2	6.5	2.0	2.4	2.83	20	44	640	62.0	740	91.9	92.0	92.1	0.62	0.73	0.79	89.3	
55	75	315S/M	72.4	6.5	1.8	2.2	3.17	28	62	680	62.0	740	92.0	92.3	92.4	0.63	0.74	0.79	109	
75	100	315S/M	98.7	6.6	1.9	3.0	4.37	20	44	876	62.0	740	92.5	92.6	92.8	0.65	0.75	0.79	148	
90	125	315S/M	118	6.8	1.9	2.4	5.29	23	51	970	62.0	740	93.9	94.3	94.5	0.67	0.77	0.81	169	
110	150	355M/L	145	6.4	1.5	2.2	12.6	41	90	1430	70.0	740	93.5	94.7	94.7	0.62	0.73	0.79	211	
132	175	355M/L	173	6.5	1.6	2.3	13.2	47	103	1445	70.0	745	92.0	92.5	92.6	0.63	0.73	0.79	260	
132	180	355M/L	174	6.5	1.6	2.2	13.2	47	103	1445	70.0	740	94.0	95.0	95.1	0.63	0.73	0.79	253	
150	200	355M/L	197	7.0	1.6	2.2	15.9	40	88	1600	70.0	740	94.3	95.0	95.2	0.61	0.72	0.78	290	
160	220	355M/L	209	6.6	1.5	2.4	16.3	42	92	1590	70.0	745	94.0	94.2	94.2	0.60	0.72	0.78	314	
185	250	355M/L	242	6.5	1.6	2.2	17.3	30	66	1730	70.0	745	93.0	94.2	94.4	0.58	0.70	0.78	363	
200	270	355M/L	263	6.8	1.6	2.1	19.5	37	81	1830	70.0	740	93.5	94.2	94.5	0.58	0.71	0.78	392	
220	300	355M/L	290	6.8	1.6	2.2	20.4	35	77	1930	70.0	740	93.5	94.3	94.5	0.61	0.73	0.77	436	

W21 Smoke Extraction - High Efficiency (IE2)

Output		Frame	Full Load Torque (kgfm)	Locked Rotor Current I/In	Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (kgm2)	Allowable locked rotor time (s)		Weight (kg)	Sound dB(A)	380 V									415 V						
												Rated speed (rpm)	% of full load						Full load current In (A)	Rated speed (rpm)	% of full load						Full load current In (A)
													Efficiency			Power Factor					Efficiency			Power Factor			
													50	75	100	50	75	100			50	75	100	50	75	100	
VIII Poles																											
0.18	0.25	660	49.3	54.4	54.9	0.47	0.59	0.69	0.722	675	45.0	51.8	54.5	0.42	0.53	0.62	0.741										
0.25	0.33	660	51.1	56.2	56.8	0.47	0.59	0.70	0.955	675	47.0	53.8	56.8	0.42	0.53	0.63	0.972										
0.37	0.5	680	59.5	63.8	62.4	0.44	0.56	0.67	1.34	695	53.1	59.9	60.9	0.39	0.49	0.59	1.43										
0.55	0.75	675	63.3	65.1	63.5	0.47	0.61	0.70	1.88	690	58.5	62.8	63.9	0.41	0.53	0.63	1.90										
0.75	1	705	73.0	75.0	73.9	0.44	0.57	0.65	2.37	715	69.2	73.0	73.7	0.38	0.49	0.59	2.40										
1.1	1.5	700	73.6	76.2	74.9	0.45	0.57	0.66	3.38	705	68.8	73.6	74.5	0.37	0.49	0.59	3.48										
1.5	2	695	78.8	79.6	78.5	0.49	0.61	0.70	4.15	705	75.3	78.2	78.9	0.41	0.53	0.63	4.20										
2.2	3	695	81.8	81.5	79.9	0.57	0.69	0.75	5.58	705	80.1	81.4	81.4	0.49	0.62	0.70	5.37										
3	4	690	82.7	82.4	80.8	0.58	0.70	0.75	7.52	705	81.1	82.4	82.5	0.50	0.63	0.71	7.13										
4	5.5	725	82.6	84.8	84.7	0.50	0.63	0.72	9.97	730	78.4	82.4	83.7	0.41	0.54	0.64	10.4										
5.5	7.5	725	83.7	85.6	85.5	0.50	0.63	0.72	13.6	730	79.2	83.1	84.3	0.41	0.54	0.63	14.4										
7.5	10	720	86.7	87.3	86.1	0.59	0.71	0.78	17.0	725	83.5	85.8	86.0	0.49	0.62	0.71	17.1										
9.2	12.5	725	88.7	88.3	86.6	0.69	0.79	0.84	19.2	730	87.5	88.3	87.5	0.61	0.73	0.80	18.3										
11	15	720	86.8	87.0	87.0	0.72	0.81	0.85	22.6	725	86.8	87.0	87.0	0.62	0.74	0.80	22.0										
15	20	725	87.5	88.0	88.0	0.61	0.72	0.77	33.6	730	86.5	88.0	88.0	0.51	0.64	0.71	33.4										
18.5	25	730	89.6	89.7	89.8	0.67	0.77	0.82	38.2	735	89.7	89.8	89.9	0.60	0.72	0.78	36.7										
22	30	730	89.0	89.5	90.0	0.71	0.80	0.83	44.7	735	88.5	89.5	90.5	0.63	0.74	0.81	41.8										
30	40	725	89.9	89.9	90.0	0.73	0.81	0.84	60.3	730	90.0	90.0	90.6	0.65	0.77	0.82	56.2										
37	50	735	91.0	91.5	91.5	0.65	0.75	0.79	77.8	740	91.0	91.5	91.5	0.57	0.69	0.75	75.0										
45	60	740	91.9	92.0	92.1	0.67	0.76	0.79	94.0	740	91.9	92.0	92.1	0.60	0.71	0.77	88.3										
55	75	735	92.0	92.3	92.4	0.68	0.77	0.80	113	740	92.0	92.3	92.4	0.61	0.72	0.77	108										
75	100	735	92.5	92.6	92.7	0.69	0.78	0.81	152	740	92.5	92.2	92.8	0.62	0.72	0.78	144										
90	125	735	94.2	94.4	94.6	0.71	0.79	0.83	173	740	93.6	94.2	94.7	0.63	0.75	0.80	165										
110	150	740	94.0	94.7	94.6	0.65	0.76	0.81	217	745	93.0	94.7	94.7	0.59	0.70	0.77	209										
132	175	745	92.0	92.5	92.6	0.66	0.75	0.81	267	745	92.0	92.5	92.6	0.60	0.71	0.77	258										
132	180	740	94.5	95.0	95.1	0.66	0.75	0.81	260	745	93.5	95.0	95.1	0.60	0.71	0.77	250										
150	200	740	94.8	95.0	95.1	0.63	0.74	0.79	302	745	93.8	95.0	95.2	0.57	0.69	0.76	287										
160	220	745	93.8	94.0	94.2	0.66	0.76	0.80	323	745	93.5	94.0	94.2	0.57	0.69	0.76	311										
185	250	740	93.0	94.2	94.4	0.63	0.74	0.80	372	745	92.5	94.0	94.4	0.53	0.66	0.76	359										
200	270	740	93.5	94.2	94.5	0.63	0.74	0.80	402	745	93.2	94.2	94.5	0.54	0.68	0.76	387										
220	300	740	94.0	94.3	94.5	0.64	0.75	0.79	448	745	93.2	94.2	94.5	0.59	0.71	0.76	426										

*Motor with class F (105K) temperature rise.

W21 Smoke Extraction - Premium Efficiency (IE3)

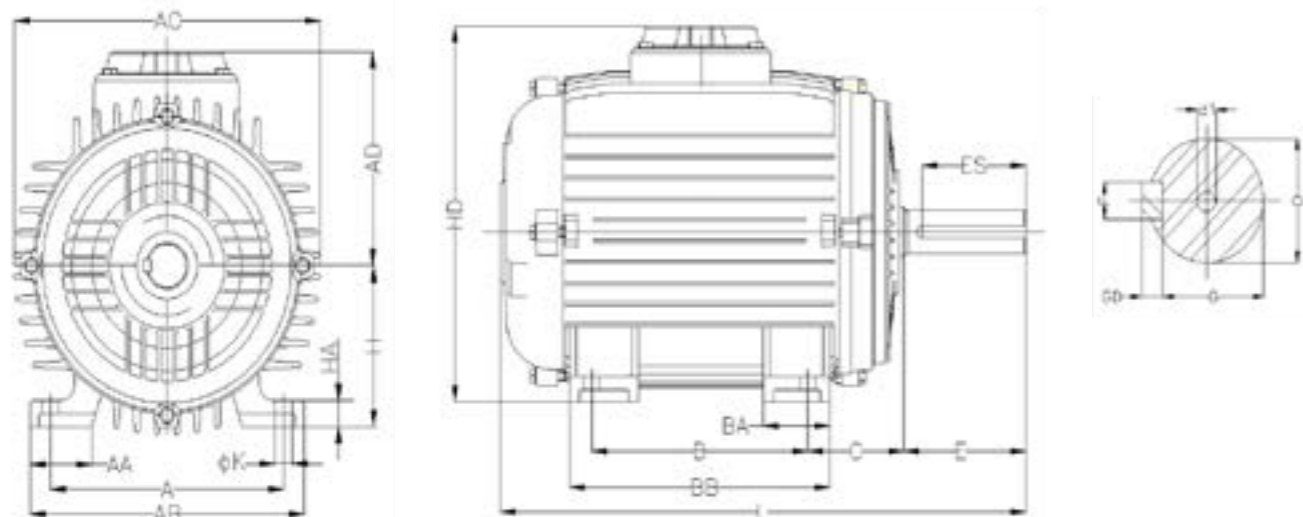
Table with columns for Output (kW, HP), Frame, Full Load Torque (kgfm), Locked Rotor Current I/Ln, Locked Rotor Torque Tl/Tn, Break-down Torque Td/Tn, Inertia J (kgm2), Allowable locked rotor time (s) (Hot, Cold), Weight (kg), Sound dB(A), Rated speed (rpm), % of full load (Efficiency, Power Factor), Full load current In (A). Includes sections for II Poles, High-Output Design, and IV Poles.

W21 Smoke Extraction - Premium Efficiency (IE3)

Table with columns for Output (kW, HP), Frame, Full Load Torque (kgfm), Locked Rotor Current I/Ln, Locked Rotor Torque Tl/Tn, Break-down Torque Td/Tn, Inertia J (kgm2), Allowable locked rotor time (s) (Hot, Cold), Weight (kg), Sound dB(A), Rated speed (rpm), % of full load (Efficiency, Power Factor), Full load current In (A). Includes sections for 380 V and 415 V, II Poles, High-Output Design, and IV Poles.

Mechanical Data

B3T - TEAO (Standard)



Frame	A	AA	AB	AC	AD	B	BA	BB	C	H	HA	HD	K	L	S1	d1	d2
80	125	35	149	159	103	100	40	125.5	50	80	13	183	10	238	M20X1.5	DM6	DM4
90S	140	38	164	179	113	100	42	131	56	90	15	203	10	260	M20X1.5	DM8	DM6
90L	140	38	164	179	113	125	42	156	56	90	15	203	10	285	M20X1.5	DM8	DM6
100L	160	49	188	199	123	140	50	173	63	100	16	223	12	330	M25X1.5	DM10	DM8
L100L	160	49	188	199	132	140	50	173	63	100	16	223	12	362	M25X1.5	DM10	DM8
112M	190	48	220	222	159	140	50	177	70	112	19	271	12	336	M25X1.5	DM10	DM8
132S	216	51	248	270	187	140	55	187	89	132	20	319	12	392	M25X1.5	DM12	DM10
132M	216	51	248	270	187	178	55	225	89	132	20	319	12	430	M25X1.5	DM12	DM10
132M/L	216	51	248	270	187	178/203	55	250	89	132	20	319	12	455	M32X1.5	DM12	DM10
160M	254	64	308	312	193	210	65	254	108	160	22	353	15	530	M32X1.5	DM16	DM16
160L	254	64	308	312	193	254	65	298	108	160	22	353	15	574	M32X1.5	DM16	DM16
180M	279	80	350	358	208	241	75	297	121	180	28	388	15	588	M32X1.6	DM16	DM16
180L	279	80	350	358	208	279	75	332	121	180	28	388	15	622	M32X1.5	DM16	DM16
200M	318	82	385	396	221	267	85	332	133	200	30	421	19	638	M32X1.8	DM20	DM20
200L	318	82	385	396	221	305	85	370	133	200	30	421	19	676	M40X1.5	DM20	DM20
225S/M*	356	80	436	476	279	286/311	105	391	149	225	34	504	19	718	M50X1.5	DM20	DM20
225S/M	356	80	436	476	279	286/311	105	391	149	225	34	504	19	748	M50X1.5	DM20	DM20
250S/M*	406	100	506	476	279	311/349	138	449	168	250	42	529	24	824	M63X1.5	DM20	DM20
250S/M	406	100	506	476	279	311/349	138	449	168	250	42	529	24	824	M63X1.5	DM20	DM20
280S/M*	457	100	557	600	340	368/419	142	510	190	280	42	620	24	967	M63X1.5	DM20	DM20
280S/M	457	100	557	600	340	368/419	142	510	190	280	42	620	24	967	M63X1.5	DM20	DM20
315S/M*	508	120	628	600	340	406/457	152	558	216	315	52	655	28	1027	M63X1.5	DM20	DM20
315S/M	508	120	628	600	340	406/457	152	558	216	315	52	655	28	1057	M63X1.5	DM20	DM20
355M/L*	610	140	750	816	485	560/630	200	760	254	350	50	835	28	1248	M63X1.5	DM20	DM20
355M/L	610	140	750	816	485	560/630	200	760	254	350	50	835	28	1318	M63X1.5	DM24	DM20

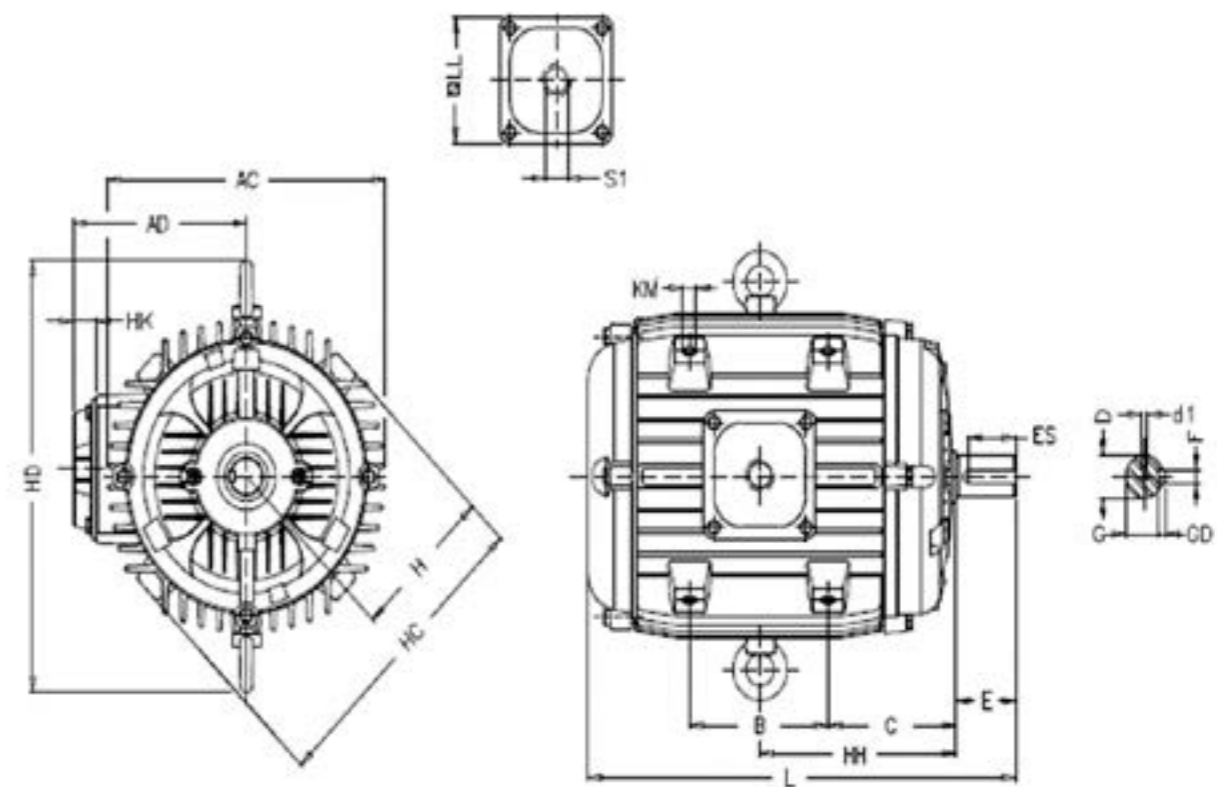
- Notes:
- * Shaft dimensions for 11 pole motors, only for direct coupling.
 - All dimensions are in millimeters.
 - Larger and smaller flanges on request.
 - The data for frame 355M/L shown above are for horizontal mounting applications under standard coupling loads.
 - The customer must inform when application is vertical or under special coupling loads.
 - The values shown are subject to change without prior notice.
 - To obtain guaranteed values please contact our nearest sales office.
 - Cable gland is optional feature. If the cable size is out of this range, please contact WEG before order.

Frame	Bearing		D	E	ES	F	G	GD	DA	EA	TS	FA	GB	GF
	DE	NDE												
80	6204 ZZ	6203 ZZ	19j6	40	28	6	16	6	14j6	30	18	5	11	5
90S	6205 ZZ	6204 ZZ	24j6	50	36	8	20	7	16j6	40	28	5	13	5
90L	6205 ZZ	6204 ZZ	24j6	50	36	8	20	7	16j6	40	28	5	13	5
100L	6206 ZZ	6205 ZZ	28j6	60	45	8	24	7	22j6	50	36	6	18.5	6
L100L	6206 ZZ	6205 ZZ	28j6	60	45	8	24	7	22j6	50	36	6	18.5	6
112M	6307 ZZ	6206 ZZ	28j6	60	45	8	24	7	24j6	50	36	8	20	7
132S	6308 ZZ	6207 ZZ	38k6	80	63	10	33	8	28j6	60	45	8	24	7
132M	6308 ZZ	6207 ZZ	38k6	80	63	10	33	8	28j6	60	45	8	24	7
132M/L	6308 ZZ	6207 ZZ	38k6	80	63	10	33	8	28j6	60	45	8	24	7
160M	6309 C3	6209 Z-C3	42k6	110	80	12	37	8	42k6	110	80	12	27	8
160L	6309 C3	6209 Z-C3	42k6	110	80	12	37	8	42k6	110	80	12	27	8
180M	6311 C3	6211 Z-C3	48k6	110	80	14	43	9	48k6	110	80	14	42.5	9
180L	6311 C3	6211 Z-C3	48k6	110	80	14	43	9	48k6	110	80	14	42.5	9
200M	6312 C3	6212 Z-C3	55m6	110	80	16	49	10	48k6	110	80	14	42.5	9
200L	6312 C3	6212 Z-C3	55m6	110	80	16	49	10	48k6	110	80	14	42.5	9
225S/M*	6314 C3	6314 C3	55m6	110	100	16	49	10	55m6	110	100	16	49	10
225S/M	6314 C3	6314 C3	60m6	140	125	18	53	11	60m6	140	125	18	53	11
250S/M*	6314 C3	6314 C3	60m6	140	125	18	53	11	60m6	140	125	18	53	11
250S/M	6314 C3	6314 C3	65m6	140	125	18	58	11	60m6	140	125	18	53	11
280S/M*	6314 C3	6314 C3	65m6	140	125	18	58	11	60m6	140	125	18	53	11
280S/M	6316 C3	6316 C3	75m6	140	125	20	68	12	65m6	140	125	18	58	11
315S/M*	6314 C3	6314 C3	65m6	140	125	18	58	11	60m6	140	125	18	53	11
315S/M	6319 C3	6316 C3	80m6	170	160	22	71	14	65m6	140	160	18	58	11
355M/L*	6316 C3	6314 C3	75m6	140	125	20	68	12	60m6	140	125	18	53	11
355M/L	6322 C3	6319 C3	100m6	210	200	28	90	16	80m6	170	200	22	71	14

Mechanical Data

Motors B30 - TEAO(Special)

Frames 80-250S/M

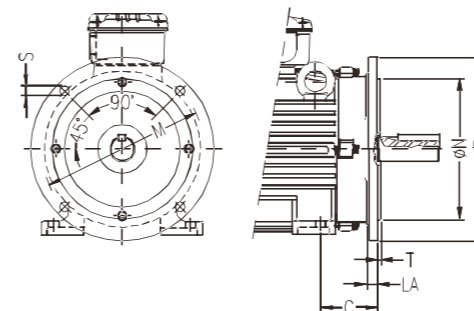


Frame	Front view						Left side view					Entry plate detail		Bearing size		Shaft							
	AC	AD	H	HC	HD	HK	B	C	HH	KM	L	LL	S1	DE	NDE	D	E	ES	F	G	GD	d1	
80	153	100	85	170	-	20	80	60	100	M12X1.75X18	238	80	M20X1.5	6204 ZZ	6203 ZZ	19j6	40	28	6	15.5	6	DM6	
L80	153	102	85	170	-	22	80	60	100	M12X1.75X18	285	80	M20X1.5	6204 ZZ	6203 ZZ	-	-	-	-	-	-	DM6	
90S	174	110	95	190	-	20	65	73.5	106	M12X1.75X18	260	80	M20X1.5	6205 ZZ	6204 ZZ	24j6	50	36	8	20	7	DM8	
L90S	174	112	95	190	-	22	65	73.5	106	M12X1.75X18	290	80	M20X1.5	6205 ZZ	6204 ZZ	-	-	-	-	-	-	DM8	
90L	174	110	95	190	-	20	90	73.5	118.5	M12X1.75X18	285	80	M20X1.5	6205 ZZ	6204 ZZ	24j6	50	36	8	20	7	DM8	
L90L	174	112	95	190	-	22	90	73.5	154.5	M12X1.75X18	315	80	M20X1.5	6205 ZZ	6204 ZZ	-	-	-	-	-	-	DM8	
100L	196	120	105	210	-	20	100	83	133	M12X1.75X17	330	80	M25X1.5	6206 ZZ	6205 ZZ	28j6	60	45	8	24	7	DM10	
L100L	196	132	105	210	-	32	100	83	133	M12X1.75X17	362	80	M25X1.5	6206 ZZ	6205 ZZ	-	-	-	-	-	-	DM10	
112M	222	137	117	234	336	25	100	90	140	M12X1.75X18	336	104	M25X1.5	6307 ZZ	6206 ZZ	28j6	60	45	8	24	7	DM10	
132S	260	165	145	290	374	25	125	97	159	M16X2X24	392	104	M25X1.5	6308 ZZ	6207 ZZ	38k6	80	63	10	33	8	DM12	
132M	260	165	145	290	374	25	140	108	178	M16X2X24	430	104	M25X1.5	6308 ZZ	6207 ZZ	38k6	80	63	10	33	8	DM12	
160M	300	187	160	320	367	25	156	135	213	M20X2.5X30	530	140	M32X1.5	6309 C3	6209 Z-C3	42k6	110	80	12	37	8	DM16	
160L	300	187	161	322	420	25	200	135	235	M20X2.5X30	574	140	M32X1.5	6309 C3	6209 Z-C3	42k6	110	80	12	37	8	DM16	
180L	349	207	184.5	369	465	25	200	160	260	M20X2.5X32	622	140	M40X1.5	6311 C3	6211 Z-C3	48k6	110	80	14	42.5	9	DM16	
200L	380	221	215.5	431	528	18	224	174	286	M24X3X41	676	155	M40X1.5	6312 C3	6212 Z-C3	55m6	110	80	16	49	10	DM20	
225S/M*	455	256	255	510	624	20	224	192.5	454.5	M24X3X45	718	196	M50X1.5	6314 C3	6314 C3	55m6	110	100	16	49	10	DM20	
225S/M	455	256	255	510	624	20	224	192.5	454.5	M24X3X45	748	196	M50X1.5	6314 C3	6314 C3	60m6	140	125	18	53	11	DM20	
250S/M*	460	277	255	510	625	20	224	230.5	342.5	M24X3X45	824	196	M63X1.5	6314 C3	6314 C3	60m6	140	125	18	53	11	DM20	
250S/M	460	277	255	510	625	20	224	230.5	342.5	M24X3X45	824	196	M63X1.5	6314 C3	6314 C3	65m6	140	125	18	58	11	DM20	

Notes:
*Dimensions for 2 pole motors.

FLANGE FF (IEC)

Installation with constructive mountings
B35, B5, V1, V3, V15, V36

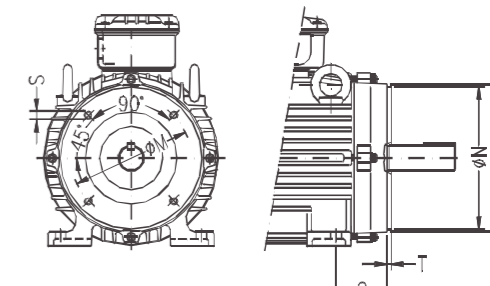


FLANGE FF (IEC)

IEC Frame	"FF" Flange										N° of Holes
	Flange	C	LA	M	N	P	T	S	α		
80	FF-165	50	10	165	130	200	3.5	12	45°	4	
90S/L		56									
100L	FF-215	63	11	215	180	250	4	15			
112M		70									
132S/M	FF-265	89	12	265	230	300	5	19			
160M/L		108									
180M/L	FF-300	121	18	300	250	350	6	24			
200M/L		133									
225S/M	FF-350	149	22	350	300	400	6	24			
250S/M		168									
280S/M	FF-400	190	22	400	350	450	6	24			
315S/M		216									
355M/L	FF-740	254	22	740	680	800	6	24			

FLANGE FC IEC B14A, B14B & NEMA C

Installation with constructive mountings
B14, B34, V18, V19



FLANGE C-DIN (DIN 42677) (B14A)

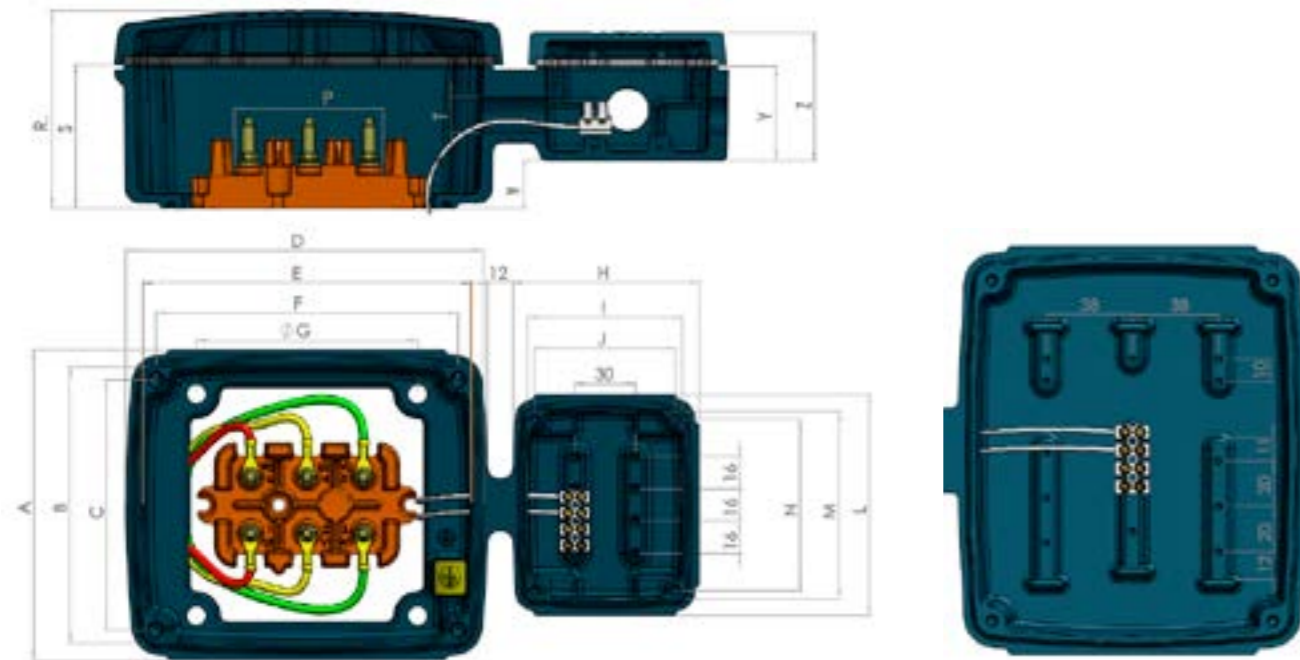
IEC Frame	"C" DIN Flange							N° of Holes
	Flange	C	M	N	P	S	T	
80	C-120	50	100	80	120	M6	3	4
90S/L	C-140	56	115	95	140	M8		
100L	C-160	63	130	110	160		3.5	
112M		70						
132S/M	C-200	89	165	130	200	M10		
160M/L		C-250					108	

FLANGE FC (NEMA)

IEC Frame	"FC" Flange							N° of Holes
	Flange	C	M	N	P	S	T	
80	FC-95	50	95.2	76.2	143	UNC 1/4"x20	4	4
90S/L	FC-149	56	149.2	114.3	165	UNC 3/8" x16		
100L		63						
112M	FC-184	70	184.2	215.9	225	UNC 1/2" x13		
132S/M		89						
160M/L	FC-228	108	228.6	266.7	280	6.3		
180M/L		121						
200M/L	133							
225S/M	FC-279	149	279.4	317.5	395	UNC 5/8" x11	8	
250S/M	FC-355	168	355.6	406.4	455			
280S/M		190						
315S/M	FC-368	216	368.3	419.1	455			
355M/L		254						



Terminal Box(Special)



* Additional terminal box is applicable only for frames from 225 to 355

Frame	A	B	C	D	E	F	G	H	I	J
80-100	92	77	70	108	93	85	56	85	71	65
112-132	117	100	88	137	120	108	70	92	77	70
160-180	154	137	124	180	163	150	110	92	77	70
200	170	153	136	200	183	166	120	92	77	70
225-250	212	190	172	250	228	208	150	154	137	124
280	265	243	214	315	298	264	150	154	137	124
315	315	289	260	375	349	318	200	154	137	124

Frame	L	M	N	P	R	S	T	W	Y	Z
80-100	100	86	80	42	59	44	10	3	42.5	57.5
112-132	108	93	85	50	67	49	13.5	7	42	57
160-180	108	93	85	67	89	64	13.5	23	42	57
200	108	93	85	84	94	78	13.5	37	42	57
225-250	180	163	150	100	114	94	17	32.5	61.5	86.5
280	180	163	150	126	143	125	17	63.5	61.5	86.5
315	180	163	150	160	172	144	17	82.5	61.5	86.5



SERVICE



From our wide Services portfolio, stands out the list of interventions on products from WEG activity areas: Electric Motors, Energy and Automation, being the most common:

Inspection, Tests and Technical Analyses

From all the inspections, tests and technical analyses we have capacity to offer, we emphasize the following:

- Production and expedition of spare parts to all over the world;
- Application diagnosis on site or in our factory;
- Technical advise on best, reliable and efficient solutions on energy saving.



	Products		Procedure	
	Automation	Motor	Internal	External
General Repair and overhaul	X	X	X	X
Product repair that may include the replacement of the components by original parts	X	X	X	X
Commissioning and start up	X	X		X
Repair of electrical machines (Ex and Safety)		X	X	X
Inspection and/or replacement of sleeve bearing or bearings		X	X	X
Repair of the sleeve bearings shell		X	X	X
High, Medium and Low Voltage rewinding		X	X	
Stator or rotor core replacement		X	X	
Brushes and brushes holder replacement		X	X	X
Shaft complete replacement or repair of shafts with grinding finishing of complete rotor		X	X	
Dynamic balancing of rotor (Maximum speed 1600 rpm 20T)		X	X	
Field dynamic balancing		X		X
Centring service		X		X
Painting (standard and special plan)		X	X	X
Inspection, tests and technical analysis	X	X	X	X
Energy Efficiency Study	X	X		X
Training of product maintenance	X	X		X

Automation

- Analysis of application improvements and technical assessment to the client, helping on the choice of the most appropriate equipment, targeting the application/optimizing installation efficiency
- Manufacturing, Installation, Modification, Start-Up and Maintenance of Electrical Panels
- Support on the settings parametrization of Variable Speed Drives and Soft Starters
- Commissioning and Start-Up of applications with Variable Speed Drives
- WEG Products Training



Electric Motors

- Commissioning and Start-Up of applications with electric motors
- Alignment applications with electric motors
- Vibration analysis and failures diagnosis
- Dimensional check of Electric Motors and Components/Spare Parts
- Electric Motors maintenance
- Electric Motors Mechanical and Electrical refurbishment:
 - Replacement of bearings / sleeve bearings
 - Recovery of sleeve bearings
 - Rewinding of Electric Motors (stator/rotor) - in Low, Medium and High Voltage (up to 11KV)
 - Recover / Refurbishment / replacement of spare parts
 - Replacement of rotor shafts
 - Repair and replacement of accessories, temperature sensors and anti-condensation heaters and other auxiliaries
- Balancing in factory up to 1600 rpm (20T, Ø Max. 4640 mm)
- Dynamic balancing on site
- Electric Motors modification to new operating conditions (IP protection, cooling system, auxiliaries mounting form, terminal boxes, external loads, etc)
- Painting and finishing recovery
- Customer training on electric motors
- Repair electric machines (Ex and Safety)
- Energy analysis and efficiency of electric motors



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Cod: 50085952 | Rev: 01 | Date (m/y): 03/2020

The values shown are subject to change without prior notice.
The information contained is reference values.