

W21Xdb Explosion Proof Motor

Three-Phase
NEMA Premium 4

Industrial Motors

Commercial &
Appliance Motors

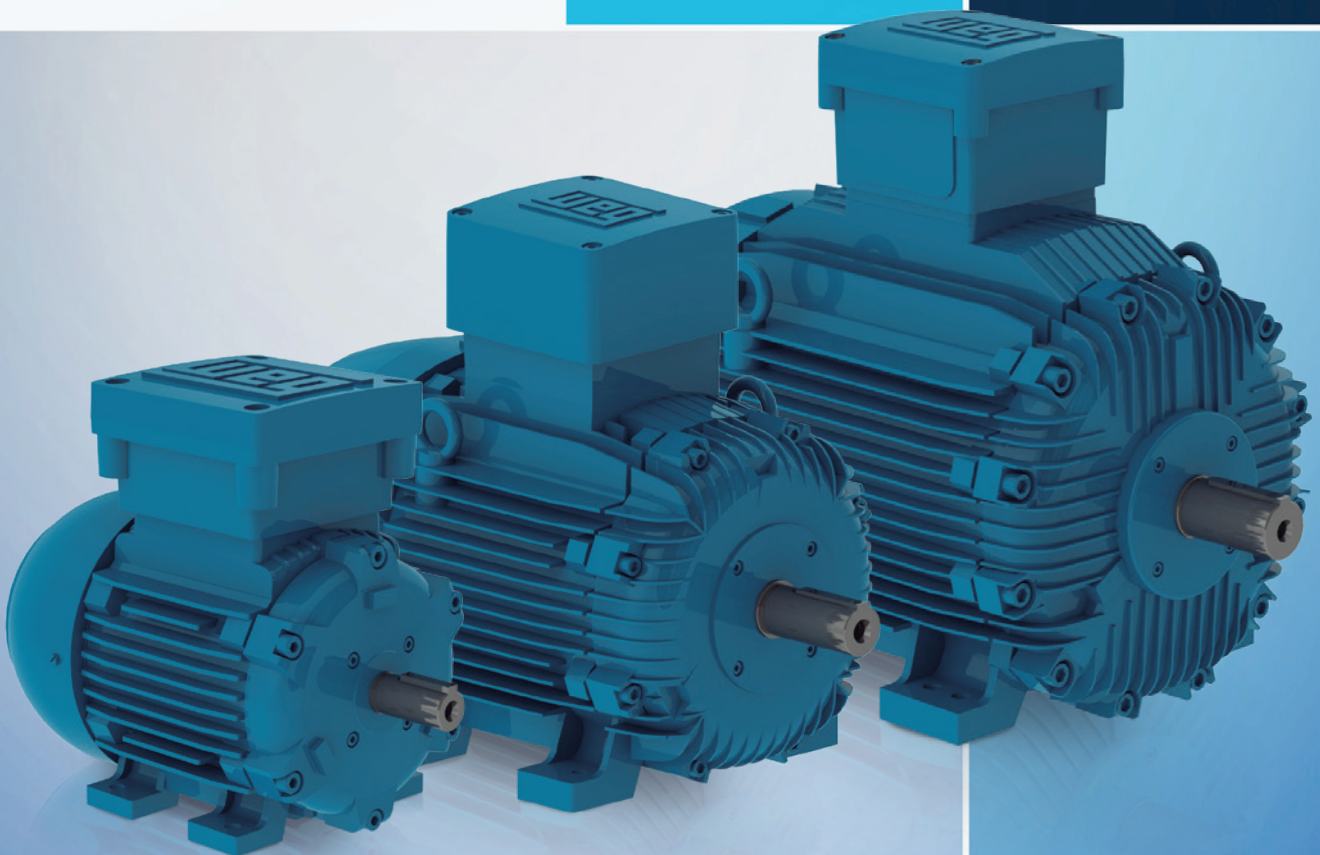
Automation

Digital &
Systems

Energy

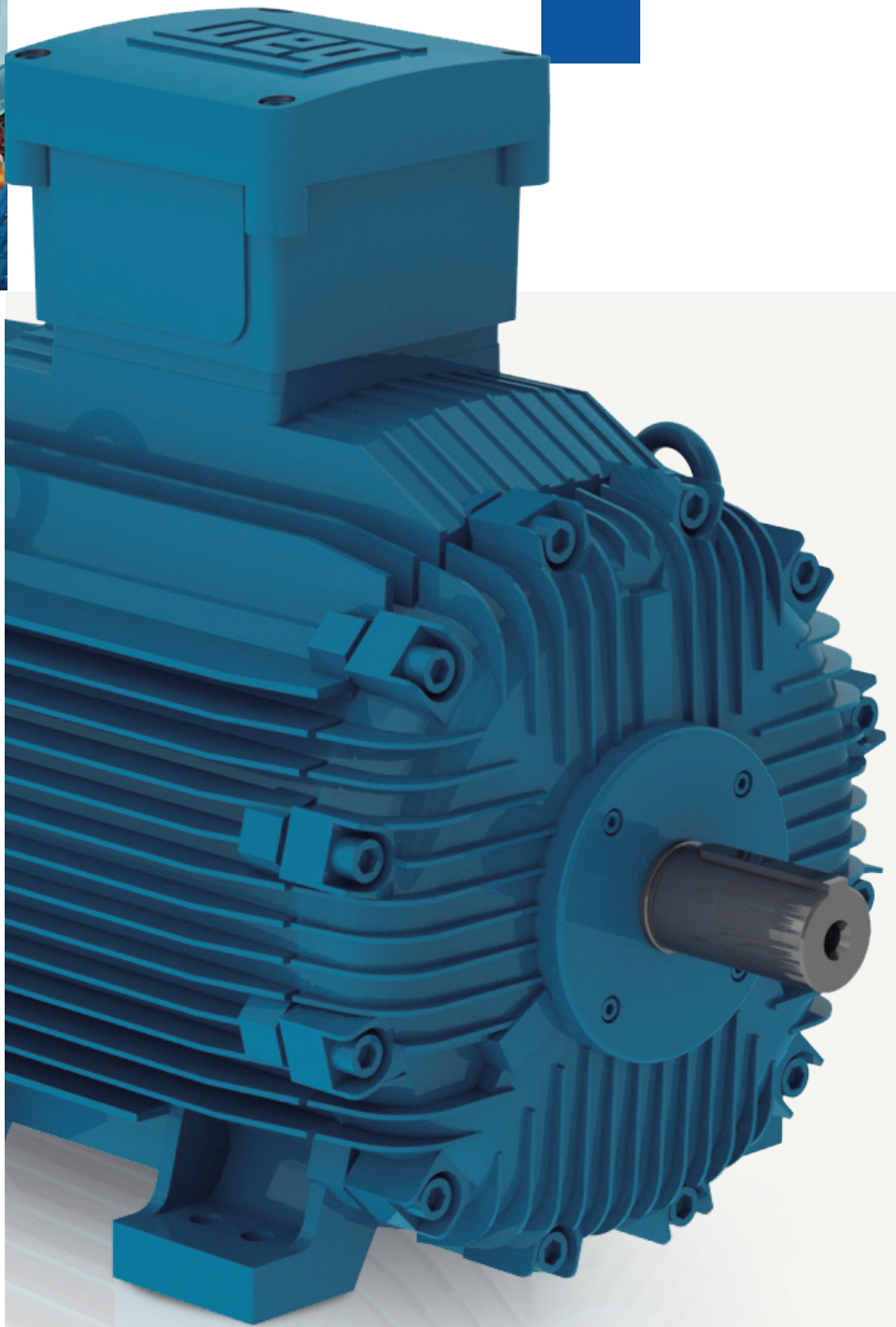
Transmission &
Distribution

Coatings



Driving efficiency and sustainability





W21Xdb

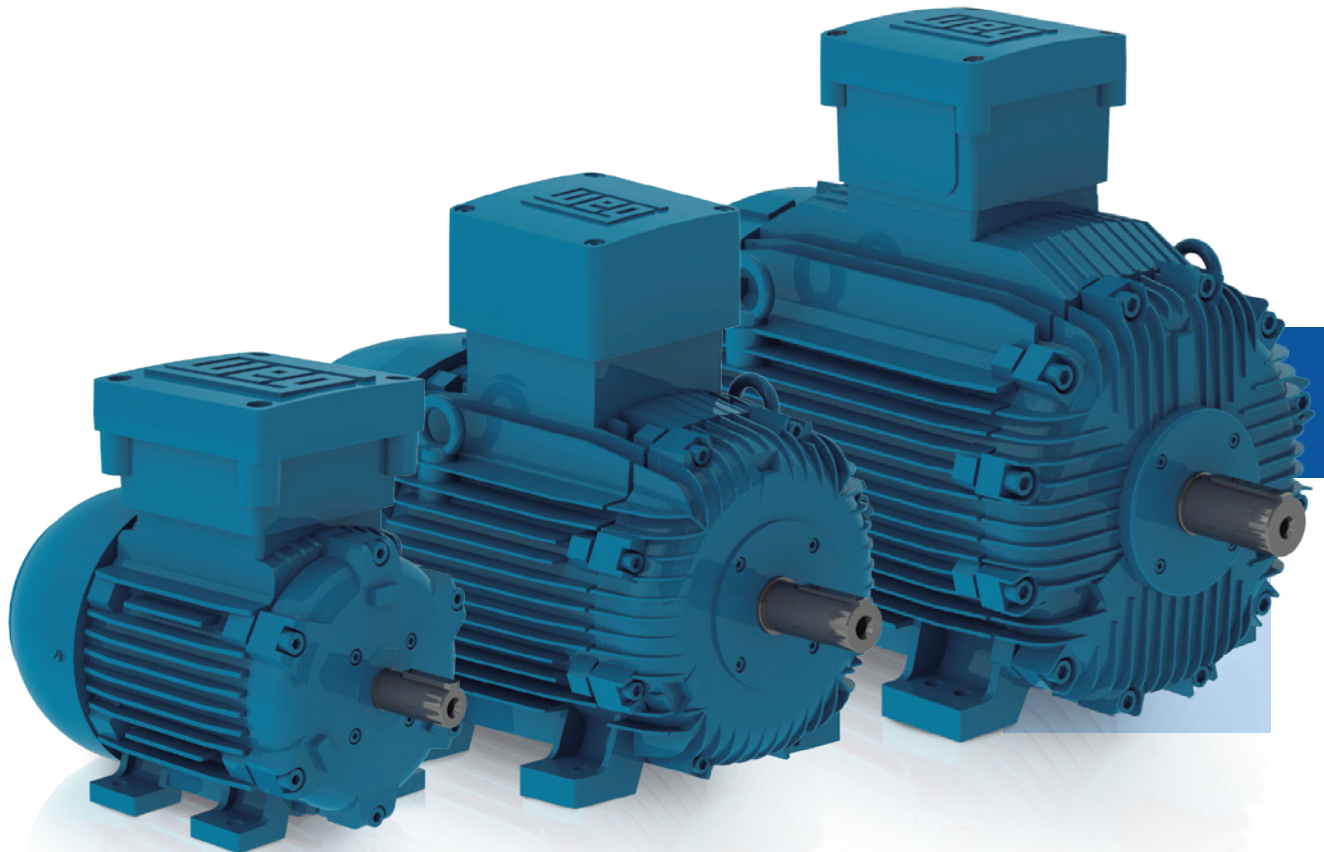
Explosion Proof Motors

NEMA Premium 4

WEG Explosion Proof motors are suitable for applications requiring UL or CSA certification for hazardous locations. Thermally protected with thermostats, all motors manufactured are submitted to routine testing at the factory to ensure compliance to the required specifications.

WEG Explosion Proof motors are specifically designed to meet or exceed all North American requirements for energy efficiency.

Moving from a NEMA Premium Efficiency to a NEMA Premium 4 (100 to 250HP) reduction that compounds over every hour of continuous operation, lowering both energy costs and carbon footprint.





Standard Features:

- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 60Hz
- Voltage: 208-230/460 or 575V
- Square cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled TEFC (IP54 & IP55)
- Ball bearings are supplied as standard regreasable bearings 254T Frames & Larger
- Cast iron frame
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C) FL
- Service factor: 1.15
- Inverter Duty
- NEMA dimensions
- NEMA rating design 'B'
- Continuous Duty (S1)
- 131° F ambient @ 1.05 SF through 150hp, 2 and 4 pole
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 Carbon Steel Shaft for frames up to 365T
- 4140 steel shaft for motors 404T and above
- Class 'F' insulation for all frames
- 60/50Hz Nameplate
- Stainless steel nameplate
- Paint: Epoxy with Polyurethane top coat (exceeds ASTM B117 salt spray test 2000 hrs)
- Color: RAL 5009 – Blue
- NPT threaded terminal box
- Non-Sparking fan
- Fl mount

Optional Features:

- Flange mount
- AEGIS® inside
- Special voltages
- Space heaters
- Specially dimensioned shaft
- Double shaft
- Stainless steel shaft
- Footless
- Other mounting configurations
- IP66
- Encoders
- TENV

Applications:

- Petro Chem
- Flour / feed mills
- Grain elevators
- Fans
- Pumps
- Blowers
- Material handling equipment
- Other applications requiring motors UL or CSA listed for hazardous locations

CSA AND UL APPROVED

CSA approved – File LR 50962
Class I, Division I, groups C and D
Class II, Division I, groups F and G

UL approved – File E 87848
Temperature code T3C
Frame 143T up to 326T
Class I, Division I, groups C and D
Class II, Division I, groups F and G

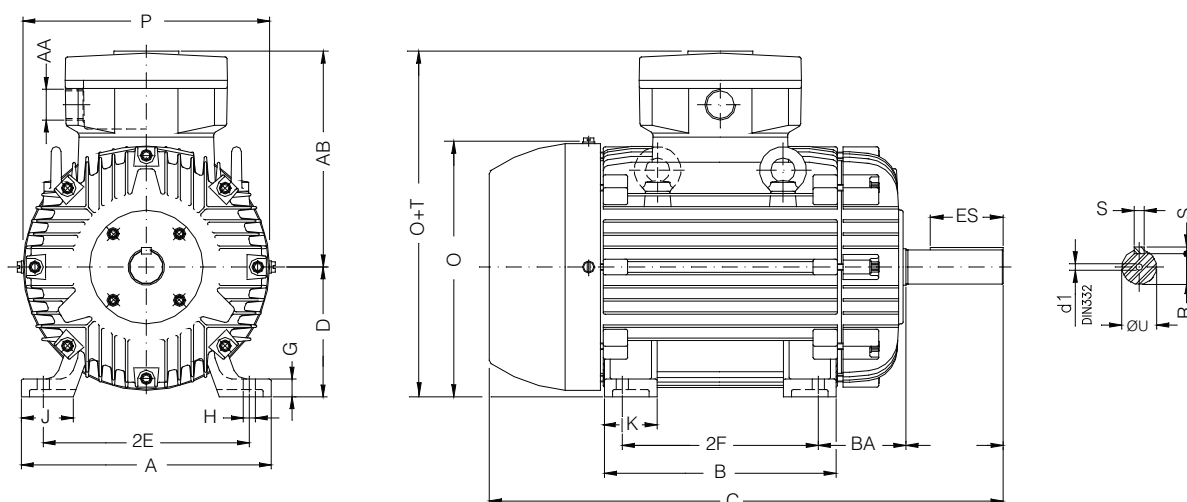
Frame 364T up to 586/7
Temperature code T3C
Class I, Division I, groups C and D
Class II, Division I, groups F and G*
**For group G, Service Factor 1.0*

Electrical Data

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq. ft.lb)	Allowable locked rotor time (s)		Service Factor	Rated speed (rpm)	460 V						Design	
				Code	II/In				% of full load						Full load current In (A)					
									Efficiency				Power Factor							
HP	kW								Hot	Cold		50	75	100	50	75	100			
II Poles																				
100	75	L404/5TS	G	146,0	7,1	2,5	2,6	13,0064	44	97	1,15	3555	93,9	94,7	95,0	0,85	0,89	0,90	110,00	B
125	90	444/5TS	F	181,0	6,5	1,8	2,0	28,1540	56	123	1,15	3570	94,7	95,4	95,4	0,84	0,88	0,89	133,00	B
150	110	444/5TS	G	218,0	7,3	2,2	2,4	32,5429	32	70	1,15	3570	95,1	95,4	95,4	0,83	0,88	0,90	161,00	B
200	150	447TS	G	290,0	7,2	2,2	2,5	38,4053	31	68	1,15	3570	95,3	95,8	95,8	0,86	0,89	0,90	218,00	B
250	185	449TS	G	362,0	7,4	2,5	2,4	54,1865	28	62	1,15	3575	95,2	95,5	96,2	0,85	0,89	0,91	265,00	B
Optional																				
100	75	L404/5TS	J	145,0	8,8	3,1	3,1	11,9680	38	84	1,15	3565	93,9	94,8	95,0	0,82	0,88	0,90	110,00	BE
125	90	444/5TS	J	181,0	9,1	2,8	2,9	31,6651	45	99	1,15	3579	93,6	94,9	95,4	0,79	0,86	0,89	133,00	BE
150	110	444/5TS	H	218,0	7,4	2,2	2,3	32,5429	39	86	1,15	3570	94,1	95,2	95,4	0,83	0,88	0,90	161,00	BE
200	150	447TS	J	290,0	8,8	2,2	3,1	31,6651	20	44	1,15	3575	95,1	95,8	95,8	0,79	0,86	0,89	221,00	BE
250	185	449TS	J	362,0	9,0	2,8	3,2	49,9255	24	53	1,15	3576	95,1	95,4	96,2	0,82	0,88	0,90	268,00	BE
IV Poles																				
100	75	L404/5T	G	291,0	6,7	2,5	2,5	26,9850	48	106	1,15	1783	95,4	96,0	96,2	0,71	0,80	0,85	115,00	B
125	90	444/5T	G	363,0	7,1	2,1	2,5	63,3059	40	88	1,15	1785	95,9	96,2	96,2	0,74	0,81	0,85	138,00	B
150	110	444/5T	G	436,0	7,0	1,9	2,0	71,1508	41	90	1,15	1783	96,1	96,2	96,2	0,76	0,83	0,85	169,00	B
200	150	586/7T	G	579,0	6,7	2,2	2,0	115,2362	44	97	1,15	1790	95,4	96,1	96,5	0,77	0,84	0,86	227,00	B
250	185	586/7T	G	724,0	6,9	2,4	2,5	115,2362	28	62	1,15	1790	95,4	96,2	96,5	0,74	0,82	0,85	283,00	B
Optional																				
100	75	L404/5TS	G	291,0	6,7	2,5	2,5	26,9850	48	106	1,15	1783	95,4	96,0	96,2	0,71	0,80	0,85	115,00	B
100	75	L404/5T	H	291,0	6,8	2,4	2,3	25,5408	73	161	1,15	1783	95,4	96,0	96,2	0,70	0,79	0,84	116,00	BE
100	75	L404/5TS	H	291,0	6,8	2,4	2,3	25,5408	73	161	1,15	1783	95,4	96,0	96,2	0,70	0,79	0,84	116,00	BE
125	90	444/5TS	G	363,0	7,1	2,1	2,5	63,3059	40	88	1,15	1785	95,9	96,2	96,2	0,74	0,81	0,85	138,00	B
125	90	444/5T	J	362,0	8,3	2,3	2,4	55,7579	37	81	1,15	1787	95,7	96,2	96,2	0,72	0,80	0,85	138,00	BE
125	90	444/5TS	J	362,0	8,3	2,3	2,4	55,7579	37	81	1,15	1787	95,7	96,2	96,2	0,72	0,80	0,85	138,00	BE
150	110	444/5TS	G	436,0	7,0	1,9	2,0	71,1508	41	90	1,15	1783	96,1	96,2	96,2	0,76	0,83	0,85	169,00	B
150	110	444/5T	J	435,0	8,0	2,3	2,6	60,1679	29	64	1,15	1785	95,9	96,2	96,2	0,71	0,80	0,85	169,00	BE
150	110	444/5TS	J	435,0	8,0	2,3	2,6	60,1679	29	64	1,15	1785	95,9	96,2	96,2	0,71	0,80	0,85	169,00	BE
200	150	586/7TS	G	579,0	6,7	2,2	2,0	115,2362	44	97	1,15	1790	95,4	96,1	96,5	0,77	0,84	0,86	227,00	B
200	150	447T	K	580,0	9,1	2,9	3,0	80,7814	25	55	1,15	1788	96,0	96,4	96,5	0,71	0,80	0,85	230,00	BE
200	150	447TS	K	580,0	9,1	2,9	3,0	80,7814	25	55	1,15	1788	96,0	96,4	96,5	0,71	0,80	0,85	230,00	BE
250	185	586/7TS	G	724,0	6,9	2,4	2,5	115,2362	28	62	1,15	1790	95,4	96,2	96,5	0,74	0,82	0,85	283,00	B
250	185	449T	J	725,0	8,5	2,9	2,9	86,7937	22	48	1,00	1786	96,2	96,5	96,5	0,71	0,81	0,85	283,00	BE
250	185	449TS	J	725,0	8,5	2,9	2,9	86,7937	22	48	1,00	1786	96,2	96,5	96,5	0,71	0,81	0,85	283,00	BE
VI Poles																				
100	75	447T	G	436,0	6,6	2,0	2,3	115,6280	48	106	1,15	1188	95,6	95,8	95,8	0,69	0,78	0,84	117,00	B
125	90	447T	G	544,0	6,8	2,2	2,4	108,3844	32	70	1,15	1190	95,7	95,8	95,8	0,67	0,77	0,82	144,00	B
150	110	449T	G	655,0	6,9	2,2	2,2	128,0364	35	77	1,15	1187	95,9	96,0	96,2	0,71	0,80	0,84	171,00	B
200	150	586/7T	G	869,0	5,9	1,7	2,0	175,9086	48	106	1,15	1193	94,8	95,7	96,2	0,69	0,78	0,81	242,00	B
250	185	586/7T	F	1086,0	5,8	1,8	2,0	234,5172	48	106	1,15	1193	95,1	95,8	96,2	0,67	0,77	0,80	302,00	B
Optional																				
100	75	447TS	G	436,0	6,6	2,0	2,3	115,6280	48	106	1,15	1188	95,6	95,8	95,8	0,69	0,78	0,84	117,00	B
100	75	444/5T	K	435,0	9,3	2,8	3,1	90,4687	35	77	1,15	1192	94,7	95,5	95,8	0,64	0,75	0,82	120,00	BE
100	75	444/5TS	K	435,0	9,3	2,8	3,1	90,4687	35	77	1,15	1192	94,7	95,5	95,8	0,64	0,75	0,82	120,00	BE
125	90	447TS	G	544,0	6,8	2,2	2,4	108,3844	32	70	1,15	1190	95,7	95,8	95,8	0,67	0,77	0,82	144,00	B
125	90	444/5T	K	543,0	9,4	2,9	3,2	95,1462	26	57	1,15	1192	94,8	95,5	95,8	0,63	0,74	0,82	144,00	BE
125	90	444/5TS	K	543,0	9,4	2,9	3,2	95,1462	26	57	1,15	1192	94,8	95,5	95,8	0,63	0,74	0,82	144,00	BE
150	110	449TS	G	655,0	6,9	2,2	2,2	128,0364	35	77	1,15	1187	95,9	96,0	96,2	0,71	0,80	0,84	171,00	B
150	110	449T	J	653,0	8,7	2,7	2,7	128,0364	29	64	1,15	1190	95,7	96,1	96,2	0,65	0,76	0,83	173,00	BE
150	110	449TS	J	653,0	8,7	2,7	2,7	128,0364	29	64	1,15	1190	95,7	96,1	96,2	0,65	0,76	0,83	173,00	BE
200	150	586/7TS	G	869,0	5,9	1,7	2,0	175,9086	48	106	1,15	1193	94,8	95,7	96,2	0,69	0,78	0,81	242,00	B
200	150	449T	K	871,0	9,1	3,2	2,9	109,6850	11	24	1,15	1189	95,2	95,7	96,2	0,62	0,74	0,80	245,00	BE
200	150	449TS	K	871,0	9,1	3,2	2,9	109,6850	11	24	1,15	1189	95,2	95,7	96,2	0,62	0,74	0,80	245,00	BE
250	185	586/7TS	F	1086,0	5,8	1,8	2,0	234,5172	48	106	1,15	1193	95,1	95,8	96,2	0,67	0,77	0,80	302,00	B
250	185	586/7T	F	1086,0	5,8	1,8	2,1	234,5172	48	106	1,15	1193	95,1	95,8	96,2	0,67	0,77	0,80	302,00	BE
250	185	586/7TS	F	1086,0	5,8	1,8	2,1	234,5172	48	106	1,15	1193	95,1	95,8	96,2	0,67	0,77	0,80	302,00	BE
VIII Poles																				
100	75	444/5T	G	581,0	6,2	1,8	2,0	84,5566	20	44	1,15	891	94,3	94,5	94,5	0,64	0,73	0,79	126,00	B
125	90	447T	G	727,0	6,6	1,6	2,0	112,4320	36	79	1,15	891	94,7	95,0	95,0	0,64	0,74	0,80	149,00	B
150	110	449T	G	873,0	6,4	1,5	2,0	133,3441	24	53	1,15	890	94,0	94,7	95,0	0,64	0,74	0,79	184,00	B
200	150	586/7T	G	1159,0	6,3	1,2	2,5	319,3868	40	88	1,15	894	94,9	95,4	95,4	0,64	0,74	0,79	250,00	B
250	185	586/7T	G	1450,0	6,0	1,3	2,0	319,3868	24	53	1,15	893	95,1	95,4	95,4	0,67	0,77	0,81	300,00	B
Optional																				
100	75	444/5TS	G	581,0	6,2	1,8	2,0	84,5566	20	44	1,15	891	94,3	94,5	94,5	0,64	0,73	0,79	126,00	B
100	75	444/5T	H	581,0	6,8	1,8	2,0	82,2536	26	57	1,15	891	94,2	94,5	94,5	0,62	0,72	0,79	126,00	BE
100	75	444/5TS	H	581,0	6,8	1,8	2,0	82,2536	26	57	1,15	891	94,2	94,5	94,5	0,62	0,72	0,79	126,00	BE
125	90	447TS	G	727,0	6,6	1,6	2,0	112,4320	36	79	1,15	891	94,7	95,0	95,0	0,64	0,74	0,80	149,00	B
125	90	447T	H	727,0	6,8	1,6	2,0	112,4320	34	75	1,15	891	94,							

Mechanical Data

Dimensions in inch



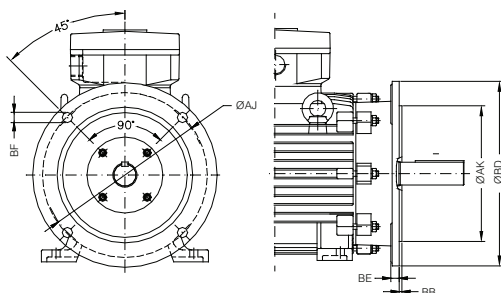
Frame	Mounting				A	B	C	D	G	J	K	O	P	T
	2E	2F	H	BA										
L404/5T	16	12.25/13.75	0.81	6.625	19.92	20	40.353	10	1.694	3.32	7.565	20.63	20.546	2.8
L404/5TS	16	12.25/13.75	0.81	6.625	19.92	20	37.353	10	1.694	3.32	7.565	20.63	20.546	2.8

Frame	Terminal Box						Bearing		Keyway			Shaft Extension		
	AB	HB	HH	AA	LL	LM	DE	NDE	S	R	ES	N-W	U	d1
L404/5T	17.52	4.724	14.601	NPT 3"	10.551	10.551	6314	6314	0.75	2.449	5.512	7.25	2.875	UNC 3/4"
L404/5TS	17.52	4.724	14.601	NPT 3"	10.551	10.551	6217	6314	0.50	1.845	2.756	7.25	2.125	UNC 3/4"

Flange Mounted Motors

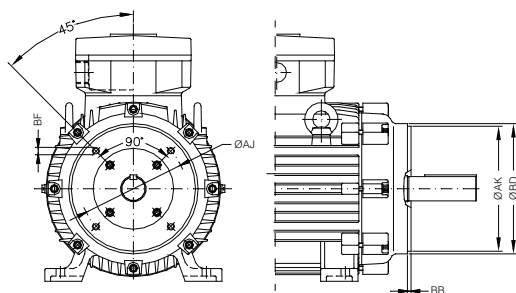
Dimensions in inch

NEMA D - Flange



Frame	"NEMA D" Flange								
	BA	AJ	BD	BF Number	BF Tap size	BB	HH	C	HH
L404/5TD	6.625	20.000	21.457	8	0.827	0.250	14.601	40.353	14.601
L404/5TSD					0.287			37.353	

NEMA C - Flange



Frame	"NEMA C" Flange									
	AJ	BF Number	AK	BD	BA	BB	BC	AH	C	HH
L404/5TC	11.000	8	12.500	15.354	6.625	0.250	0.250	7.000	40.353	14.601
L404/5TSC								4.000	37.353	

The scope of WEG Group solutions
is not limited to products and solutions
presented in this catalogue.
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The values shown are subject to change without prior notice.
The information contained is reference values.