W01 Brake Motor

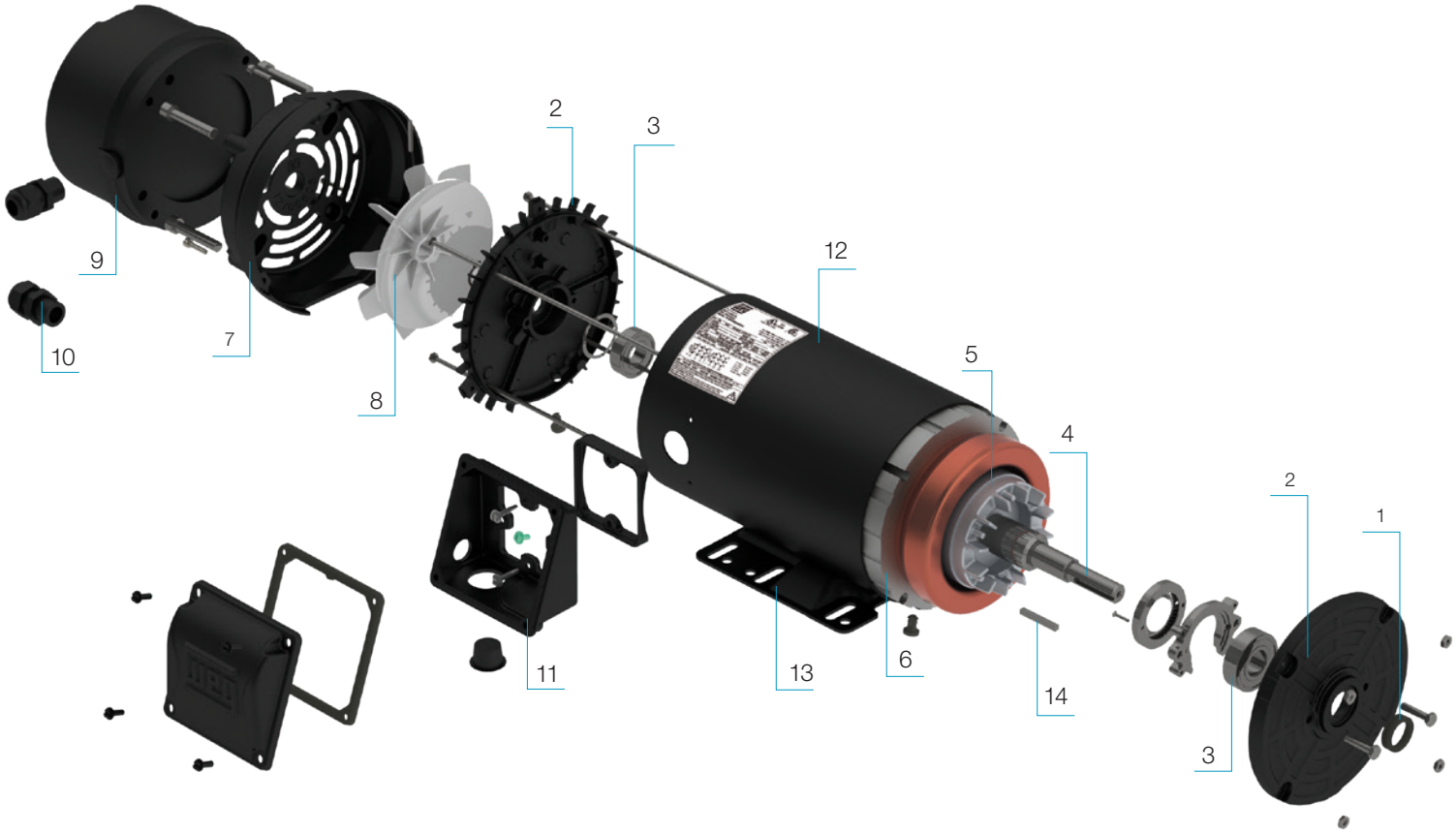
Three-phase Electric Motor

Driving efficiency and sustainability

Efficiency and reliability for the industry

Founded in 1961, WEG is recognized today as one of the world's largest electric motors manufacturer, present in more than 100 countries at the five continents and counting on more than 25,000 employees, producing more than 12 million motors per year. Offering a wide range of motors, WEG also stands out in the supply of dedicated applications. Always focused on the customer's needs, it offers solutions for many different applications. WEG motors provide high efficiency, low operating costs, extended service life, and, above all, safety!

Motor Details



1	Sealing system	8	Fan
2	Endshields	9	Brake system
3	Bearings	10	Cable Glands
4	Shaft	11	Terminal box
5	Rotor	12	Frame
6	Stator	13	Foot
7	Fan cover	14	Shaft key

W01 Brake Motor

The W01 motor line has been designed to accomplish a brake system and meets the requirements of these applications. The brake motors line provides a safety stopping in a short period of time. This is because the brakes are locked with springs and electrically released. It also provides the brake operation when failures are presented, such as interruption or failure on the power supply, so the brake will hold the load as protection.

Application

Featuring a braking system with high torque and durability, the W01 Brake Motor is ideal for equipment that requires fast stops for safety, accurate positioning and time saving.

- Conveyors
- Packaging
- Mining
- Material handling
- Food and beverage
- Crane & hoist
- Cement & aggregate

Features

Standard

- Three-phase
- Rated output: 0.25 HP to 25 HP
- Number of Poles: 2, 4 and 6
- Frame size: W56 to 254/6T
- Frequency: 60 Hz
- Voltage: 208-230/460 V
- Brake power supply: Same as motor (without bridge rectifier)
- Normally closed brake
- Design: B (High Efficiency or NEMA Premium Efficiency)
  A (Standard Efficiency)
- Insulation class: F (DT 80K)
- Cooling method: TEFC (Totally Enclosed Fan-Cooled)
  ODP (Open Drip Proof)
  TEAO (Totally Enclosed Air Over)
  TENV (Totally Enclosed Non-Ventilated)
- Degree of protection: IP55 (TEFC)
- Mounting: F1
- Ambient Temperature : -20 °C up to 40 °C
- Frame material: Rolled steel
- Terminal box material: Aluminium
- Fan material: Plastic (non aplicable for ODP motors)
- Fan cover material: Aluminium (for TEFC motors)
- Shaft material: Steel SAE 1040/45
- Ball bearings
- DE bearing seal: V-ring
- NDE bearing seal: Lip seal
- Painting plan: 207A, classified as corrosion category C2, according to ISO 12944:2
- Vibration level: Degree A (According to NEMA MG-1)
- Motors are inverted rated (Brake wired independently)

Optional

- Mounting: F2, F3 flanges, footless, vertical
- Degree of Protection: IP21 (ODP) / IP44 (TEAO/TENV)
- Frequency: 50Hz
- Voltage: 575 V and others
- Vibration level: Degree B (According to NEMA MG-1)
- Winding thermal protection: thermostat or thermistor
- Space heater
- Cable gland
- Insulation class: “H”
- AEGIS ring inside on the DE

W01 Brake Motors

To define the brakes, you need to consider the braking torque according to motor frame size, output and the number of poles. You can see available motors versus output and the number of poles in Electric Tables (page 10). Below, the brakes models are described according to its frame sizes and motor cooling system.

Models of the brakes according to the size and rated torque for TEFC motors

Number of poles	Output (HP)	Frame	Braking torque (ft.lb)
2	0.25	48	3
	0.25	W56	
	0.25	56	
	0.33	48	
	0.33	W56	
	0.33	56	
	0.5	48	
	0.5	W56	
	0.5	56	
	0.75	48	
	0.75	W56	
	0.75	56	
	1.0	48	
	1.0	W56	
	1.0	56	
	1.0	143/5T	
	1.5	48	
	1.5	W56	
	1.5	56	
	1.5	143/5T	
	2.0	56	6
	2.0	143/5T	
	3.0	56	
	3.0	143/5T	
	3.0	182/4T	
	5.0	182/4T	10
	7.5	182/4T	15
	7.5	213/5T	25
	10	213/5T	
	15	213/5T	35
	15	254/6T	
	20	254/6T	50
	25	254/6T	

Number of poles	Output (HP)	Frame	Braking torque (ft.lb)
4	0.16	48	3
	0.16	W56	
	0.25	48	
	0.25	W56	
	0.25	56	
	0.33	48	
	0.33	W56	
	0.33	56	
	0.5	48	
	0.5	W56	
	0.5	56	
	0.75	48	6
	0.75	W56	
	0.75	56	
	1.0	48	
	1.0	W56	
	1.0	56	
	1.0	143/5T	
	1.5	56	10
	1.5	143/5T	
	2.0	56	
	2.0	143/5T	
	3.0	182/4T	15
	5.0	182/4T	25
	7.5	213/5T	35
	10	213/5T	50
	15	254/6T	75
	20	254/6T	105
6	0.16	48	3
	0.16	W56	
	0.25	48	
	0.25	W56	
	0.25	56	
	0.33	48	
	0.33	W56	
	0.33	56	
	0.5	48	
	0.5	W56	
	0.5	56	
	0.75	56	6
	1.0	56	
	1.0	143/5T	
	1.5	182/4T	10
	2.0	182/4T	15
	3.0	213/5T	25
	5.0	213/5T	35
	7.5	254/6T	50
	10	254/6T	75

Models of the brakes according to the size and rated torque for ODP motors

Number of poles	Output (HP)	Frame	Braking torque (ft.lb)
2	0.25	48*	3
	0.25	W56	
	0.25	56	
	0.33	48	
	0.33	W56	
	0.33	56	
	0.5	48	
	0.5	W56	
	0.5	56	
	0.75	48	
	0.75	W56	
	0.75	56	
	1.0	48	
	1.0	W56	
	1.0	56	
	1.0	143/5T	
	1.5	48	
	1.5	W56	
	1.5	56	
	1.5	143/5T	
	2.0	56	6
	2.0	143/5T	
	3.0	56	
	3.0	143/5T	
	5.0	182/4T	10
	7.5	182/4T	15
	10	213/5T	25
	15	213/5T	35
	20	254/6T	50
	25	254/6T	

Number of poles	Output (HP)	Frame	Braking torque (ft.lb)
4	0.16	48	3
	0.16	W56	
	0.25	48	
	0.25	W56	
	0.25	56	
	0.33	48	
	0.33	W56	
	0.33	56	
	0.5	48	
	0.5	W56	
	0.5	56	
	0.75	48	6
	0.75	W56	
	0.75	56	
	1.0	48	
	1.0	W56	
	1.0	56	
	1.0	143/5T	
	1.5	56	10
	1.5	143/5T	
	2.0	56	
	2.0	143/5T	
	3.0	56	15
	3.0	182/4T	
	5.0	182/4T	25
	7.5	213/5T	35
	10	213/5T	50
	15	254/6T	75
	20	254/6T	105
6	0.16	48	3
	0.16	W56	
	0.25	48	
	0.25	W56	
	0.25	56	
	0.33	48	
	0.33	W56	
	0.33	56	
	0.5	48	
	0.5	W56	
	0.5	56	
	0.75	56	6
	0.75	56H	
	1.0	56	
	1.0	143/5T	
	1.5	182/4T	10
	2.0	182/4T	15
	3.0	213/5T	25
	5.0	213/5T	35
	7.5	254/6T	50
	10	254/6T	75

Minimum distance to the wall

The minimum distance recommended of the W01 Brake motor to the wall or to any possible obstacles is in Table 1. Is important to respect this recommendation because brakes require braking adjustments and changing on pieces for maintaining its best performance.

Frame	Brake Series	W (inches)
48	48,100	3.96
56	56,000	2.95
143/5T		
182/4T		
213/5T	87,000	4.69
254/6T		

Table 1 - Minimum distance to the wall.

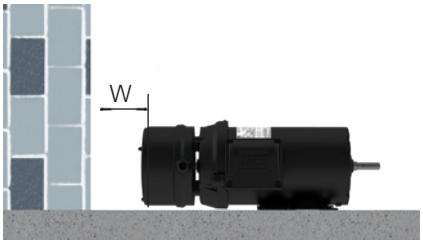


Figure 1 – Minimum distance to the wall.

Nameplate

The nameplate supplies information determining motor construction and performance characteristics. The line name is given on the first line of the nameplate together with nominal efficiency levels as required by NEMA MG1.

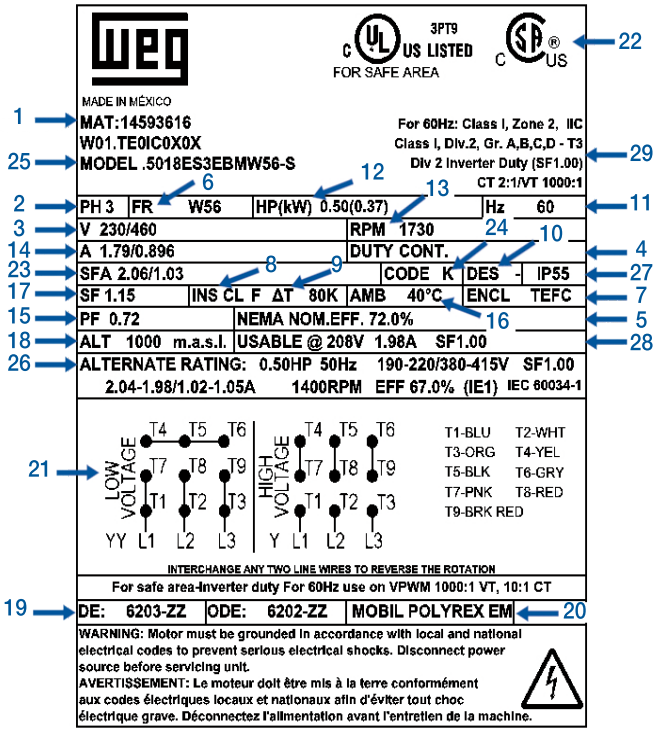


Figure 2 – Nameplate layout for frames 143T to 215T

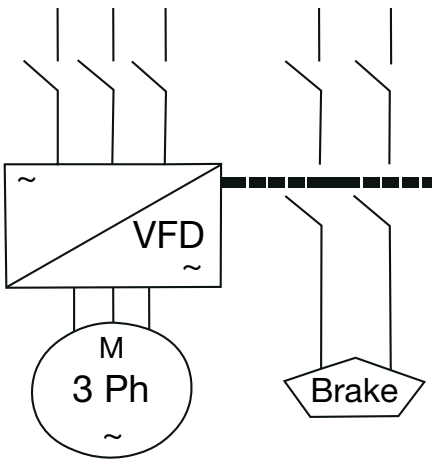
1 - Motor code
2 - Three-phase
3 - Rated operating voltage
4 - Service duty
5 - Efficiency
6 - Frame size
7 - Enclosure
8 - Insulation class
9 - Temperature rise
10 - Design
11 - Frequency
12 - Motor rated power
13 - Full load speed (rpm)
14 - Rated operating current
15 - Power factor
16 - Ambient temperature
17 - Service factor
18 - Altitude
19 - Drive end bearing and Non-drive end bearing specification
20 - Type of grease for bearings
21 - Connection diagram
22 - Certification labels
23 - Service factor current
24 - NEMA code letters for locked rotor kVA
25 - Model
26 - Derating 50 Hz
27 - Degree of protection
28 - Current at 208 V

Brake Wiring

Low voltage (208-230V)
Join B1 & B3 to Line 1.
Join B2 & B4 to Line 2.

High voltage (208-230V)
B1 to Line 1.
B2 to Line 2.
B3 & B4: Wire nut together.

Note: Brake must be wired separately when the motor is VFD operated. Brake requires full line voltage, 208-230 or 460V.



Performance Data

W01 Brake - TEFC- Standard Efficiency - Three-phase - 60 Hz

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)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	Il/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
0.25	0.18	W56	0.380	L	6.0	2.8	3.0	0.0126	34	75	19.1	1.15	3430	48.0	57.5	59.5	0.62	0.71	0.78	0.487	14.232	5.118	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.500	L	6.1	2.9	3.0	0.0126	28	62	19.1	1.15	3425	52.5	59.5	62.0	0.60	0.70	0.77	0.657	14.232	5.118	6203 ZZ	6202 ZZ
0.5	0.37	W56	0.760	K	6.3	2.9	2.9	0.0147	20	44	19.9	1.15	3400	59.5	66.0	68.0	0.61	0.73	0.80	0.854	14.625	5.512	6203 ZZ	6202 ZZ
0.75	0.55	W56	1.14	K	6.9	3.0	3.0	0.0169	14	31	20.8	1.15	3400	66.0	70.0	72.0	0.64	0.76	0.83	1.16	14.625	5.512	6203 ZZ	6202 ZZ
1	0.75	W56	1.52	L	7.7	3.3	3.2	0.0211	11	24	22.6	1.15	3405	70.0	74.0	74.0	0.66	0.77	0.84	1.51	15.019	5.906	6203 ZZ	6202 ZZ
1.5	1.1	W56	2.26	L	8.5	3.8	3.7	0.0294	9	20	26.3	1.15	3435	74.0	77.0	77.0	0.64	0.77	0.84	2.13	15.807	6.693	6203 ZZ	6202 ZZ
2	1.5	56H	2.98	K	7.7	2.3	2.9	0.0963	11	24	40.1	1.15	3475	75.5	78.5	80.0	0.76	0.86	0.90	2.62	17.771	7.480	6204 ZZ	6202 ZZ
3	2.2	56H	4.47	K	8.5	2.7	2.8	0.1279	6	13	47.1	1.15	3480	80.0	81.5	81.5	0.76	0.86	0.90	3.76	18.559	8.268	6204 ZZ	6202 ZZ
Optional																								
0.25	0.18	48	0.380	L	6.0	2.8	3.0	0.0126	34	75	19.1	1.15	3430	48.0	57.5	59.5	0.62	0.71	0.78	0.487	13.858	5.118	6203 ZZ	6202 ZZ
0.25	0.18	56	0.370	L	6.4	2.5	3.0	0.0389	60	132	26.2	1.15	3475	46.0	52.5	57.5	0.75	0.82	0.86	0.457	15.803	5.512	6203 ZZ	6202 ZZ
0.33	0.25	48	0.500	L	6.1	2.9	3.0	0.0126	28	62	19.1	1.15	3425	52.5	59.5	62.0	0.60	0.70	0.77	0.657	13.858	5.118	6203 ZZ	6202 ZZ
0.33	0.25	56	0.490	L	6.4	2.5	3.0	0.0389	40	88	26.2	1.15	3485	48.0	57.5	62.0	0.72	0.79	0.84	0.602	15.803	5.512	6203 ZZ	6202 ZZ
0.5	0.37	48	0.760	K	6.3	2.9	2.9	0.0147	20	44	19.9	1.15	3400	59.5	66.0	68.0	0.61	0.73	0.80	0.854	14.251	5.512	6203 ZZ	6202 ZZ
0.5	0.37	56	0.740	L	7.0	2.6	3.0	0.0453	35	77	28.0	1.15	3500	55.0	62.0	68.0	0.67	0.75	0.81	0.843	16.196	5.906	6203 ZZ	6202 ZZ
0.75	0.55	48	1.14	K	6.9	3.0	3.0	0.0169	14	31	20.8	1.15	3400	66.0	70.0	72.0	0.64	0.76	0.83	1.16	14.251	5.512	6203 ZZ	6202 ZZ
0.75	0.55	56	1.12	K	7.0	2.5	2.9	0.0517	23	51	29.3	1.15	3475	62.0	68.0	72.0	0.70	0.79	0.85	1.13	16.196	5.906	6203 ZZ	6202 ZZ
1	0.75	48	1.52	L	7.7	3.3	3.2	0.0211	11	24	22.6	1.15	3405	70.0	74.0	74.0	0.66	0.77	0.84	1.51	14.645	5.906	6203 ZZ	6202 ZZ
1	0.75	56	1.49	K	7.2	2.4	2.9	0.0643	24	53	32.4	1.15	3480	66.0	72.0	74.0	0.68	0.79	0.84	1.51	16.590	6.300	6204 ZZ	6202 ZZ
1.5	1.1	48	2.26	L	8.5	3.8	3.7	0.0294	9	20	26.3	1.15	3435	74.0	77.0	77.0	0.64	0.77	0.84	2.13	15.433	6.693	6203 ZZ	6202 ZZ
1.5	1.1	56	2.25	J	7.2	2.4	2.7	0.0771	12	26	35.1	1.15	3460	72.0	75.5	77.0	0.76	0.85	0.90	1.99	16.984	6.693	6204 ZZ	6202 ZZ
2	1.5	56	2.98	K	7.7	2.3	2.9	0.0963	11	24	40.1	1.15	3475	75.5	78.5	80.0	0.76	0.86	0.90	2.62	17.771	7.480	6204 ZZ	6202 ZZ
3	2.2	56	4.47	K	8.5	2.7	2.8	0.1279	6	13	47.1	1.15	3480	80.0	81.5	81.5	0.76	0.86	0.90	3.76	18.559	8.267	6204 ZZ	6202 ZZ
IV Poles																								
0.16	0.12	W56	0.480	L	5.1	2.4	2.9	0.0240	43	95	19.1	1.15	1735	50.5	59.5	62.0	0.48	0.58	0.67	0.363	14.232	5.118	6203 ZZ	6202 ZZ
0.25	0.18	W56	0.750	K	5.3	2.4	2.9	0.0280	30	66	19.9	1.15	1735	55.0	62.0	66.0	0.48	0.59	0.68	0.503	14.625	5.512	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.990	K	5.4	2.3	2.7	0.0318	21	46	20.8	1.15	1730	57.5	64.0	68.0	0.48	0.60	0.70	0.659	14.625	5.512	6203 ZZ	6202 ZZ
0.5	0.37	W56	1.50	K	6.0	2.6	2.8	0.0399	16	35	22.6	1.15	1730	62.0	70.0	72.0	0.49	0.62	0.72	0.896	15.019	5.906	6203 ZZ	6202 ZZ
0.75	0.55	W56	2.25	K	6.5	2.7	2.9	0.0479	12	26	24.3	1.15	1730	68.0	74.0	75.5	0.52	0.65	0.75	1.22	15.413	6.300	6203 ZZ	6202 ZZ
1	0.75	W56	3.00	K	6.9	2.9	2.9	0.0598	9	20	27.2	1.15	1725	70.0	75.5	77.0	0.53	0.66	0.76	1.61	16.200	7.087	6203 ZZ	6202 ZZ
1.5	1.1	56H	4.44	K	7.5	2.5	3.0	0.1037	9	20	40.3	1.15	1750	77.0	80.0	81.5	0.54	0.67	0.76	2.23	17.771	7.480	6204 ZZ	6202 ZZ
2	1.5	56H	5.94	K	7.3	2.4	2.7	0.1232	8	18	44.9	1.15	1745	80.0	81.5	82.5	0.58	0.72	0.80	2.85	18.165	7.874	6204 ZZ	6202 ZZ
Optional																								
0.16	0.12	48	0.480	L	5.1	2.4	2.9	0.0240	43	95	19.1	1.15	1735	50.5	59.5	62.0	0.48	0.58	0.67	0.363	13.858	5.118	6203 ZZ	6202 ZZ
0.25	0.18	48	0.750	K	5.3	2.4	2.9	0.0280	30	66	19.9	1.15	1735	55.0	62.0	66.0	0.48	0.59	0.68	0.503	14.251	5.512	6203 ZZ	6202 ZZ
0.25	0.18	56	0.730	M	6.3	2.4	3.0	0.0453	38	84	27.1	1.15	1765	57.5	66.0	70.0	0.43	0.54	0.62	0.521	15.803	5.512	6203 ZZ	6202 ZZ
0.33	0.25	48	0.990	K	5.4	2.3	2.7	0.0318	21	46	20.8	1.15	1730	57.5	64.0	68.0	0.48	0.60	0.70	0.659	14.251	5.512	6203 ZZ	6202 ZZ
0.33	0.25	56	0.970	M	7.1	2.3	3.0	0.0517	31	68	28.4	1.15	1765	64.0	72.0	74.0	0.47	0.58	0.68	0.624	16.196	5.906	6203 ZZ	6202 ZZ
0.5	0.37	48	1.50	K	6.0	2.6	2.8	0.0399	16	35	22.6	1.15	1730	62.0	70.0	72.0	0.49	0.62	0.72	0.896	14.645	5.906	6203 ZZ	6202 ZZ
0.5	0.37	56	1.47	L	7.0	2.4	3.0	0.0584	20	44	29.9	1.15	1760	68.0	74.0	77.0	0.48	0.61	0.70	0.862	16.196	5.906	6203 ZZ	6202 ZZ
0.75	0.55	48	2.25	K	6.5	2.7	2.9	0.0479	12	26	24.3	1.15	1730	68.0	74.0	75.5	0.52	0.65	0.75	1.22	15.039	6.300	6203 ZZ	6202 ZZ
0.75	0.55	56	2.21	K	6.9	2.4	3.0	0.0648	17	37	31.5	1.15	1755	72.0	77.0	78.5	0.48	0.61	0.72	1.22	16.590	6.300	6203 ZZ	6202 ZZ
1	0.75	48	3.00	K	6.9	2.9	2.9	0.0598	9	20	27.7	1.15	1725	70.0	75.5	77.0	0.53	0.66	0.76	1.61	15.826	7.087	6203 ZZ	6202 ZZ
1	0.75	56	2.94	M	7.7	2.7	3.0	0.0842	12	26	36.0	1.15	1760	74.0	78.5	80.0	0.48	0.62	0.71	1.66	16.984	6.693	6204 ZZ	6202 ZZ
1.5	1.1	56	4.44	K	7.5	2.5	3.0	0.1037	9	20	39.3	1.15	1750	77.0	80.0	81.5	0.54	0.67	0.76	2.23	17.771	7.480	6204 ZZ	6202 ZZ
2	1.5	56	5.94	K	7.3	2.4	2.7	0.1232	8	18	43.9	1.15	1745	80.0	81.5	82.5	0.58	0.72	0.80	2.85	18.165	7.874	6204 ZZ	6202 ZZ
VI Poles																								
0.16	0.12	W56	0.730	J	3.9	1.9	2.5	0.0280	43	95	19.9	1.15	1135	46.0	55.0	59.5	0.45	0.56	0.65	0.389	14.625	5.512	6203 ZZ	6202 ZZ
0.25	0.18	W56	1.14	J	4.2	2.0	2.5	0.0358	26	57	21.7	1.15	1135	50.5	59.5	62.0	0.45	0.56	0.65	0.561	15.019	5.906	6203 ZZ	6202 ZZ
0.33	0.25	W56	1.51	H	4.1	1.8	2.3	0.0439	22	48	23.5	1.15	1130	55.0	62.0	64.0	0.48	0.59	0.69	0.711	15.413	6.300	6203 ZZ	6202 ZZ
0.5	0.37	W56	2.29	H	4.4	2.0	2.4	0.0558	17	37	26.3	1.15	1130	59.5	66.0	68.0	0.47	0.59	0.69	0.990	15.807	6.693	6203 ZZ	6202 ZZ
0.75	0.55	56H	3.36	K	5.8	2.3	3.0	0.1331	21	46	38.5	1.15	1155	70.0	74.0	75.5	0.46	0.59	0.68	1.34	17.377	7.087	6204 ZZ	6202 ZZ
1	0.75	56H	4.52	J	5.6	2.1	2.6	0.1597	15	33	42.7	1.15	1145	72.0	75.5	77.0	0.50	0.63	0.73	1.67	18.165	7.874	6204 ZZ	6202 ZZ
Optional																								
0.16	0.12	48	0.730	J	3.9	1.9	2.5	0.0280	43	95	19.9	1.15	1135	46.0	55.0	59.5	0.45	0.56	0.65	0.389	14.251	5.512	6203 ZZ	6202 ZZ
0.25	0.18	48	1.14	J	4.2	2.0	2.5	0.0358	26	57	21.7	1.15	1135	50.5	59.5	62.0	0.45	0.56	0.65	0.561	14.645	5.906	6203 ZZ	6202 ZZ
0.25	0.18	56	1.12	K	5.1	2.3	3.0	0.0710	46	101	28.1	1.15	1160	55.0	64.0	68.0	0.41	0.52	0.61	0.545	16.196	5.906	6203 ZZ	6202 ZZ
0.33	0.25	48	1.51	H	4.1	1.8	2.3	0.0439	22	48	23.5	1.15	1130	55.0	62.0	64.0	0.48	0.59	0.69	0.711	15.039	6.300	6203 ZZ	6202 ZZ
0.33	0.25	56	1.47	L	5.5	2.4	3.0	0.0888	36	79	30.1	1.15	1160	59.5	68.0	70.0	0.42	0.53	0.62	0.723	16.590	6.300	6203 ZZ	6202 ZZ
0.5	0.37	48	2.29	H	4.4	2.0	2.4	0.0558	17	37	25.3	1.15	1130	59.5	66.0	68.0	0.47	0.59	0.69	0.990	15.433	6.693	6203 ZZ	6202 ZZ
0.5	0.37	56	2.23	K	5.4	2.1	3.0	0.1065	22	48	33.7	1.15	1160	64.0	70.0	72.0	0.44	0.56	0.65	0.992	16.984	6.693	6203 ZZ	6202 ZZ
0.75	0.55	56	3.36	K	5.8	2.3	3.0	0.1331	21	46	38.5	1.15	1155	70.0	74.0	75.5	0.46	0.59	0.68	1.34	17.377	7.087	6203 ZZ	6202 ZZ
1	0.75	56	4.52	J	5.6	2.1	2.6	0.1597	15	33	72.7	1.15	1145	72.0	75.5	77.0	0.50	0.63	0.73	1.67	18.165	7.874	6204 ZZ	6202 ZZ

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

W01 Brake - TEFC - High Efficiency - Three-phase - 60 Hz

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)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	Il/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
1	0.75	143/5T	1.48	K	7.9	2.3	3.3	0.0275	22	48	35	1.15	3510	70.0	75.5	77.0	0.69	0.80	0.86	1.42	17.840	7.480	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	2.23	K	8.1	2.7	3.0	0.0358	17	37	38	1.15	3480	77.0	81.5	82.5	0.72	0.83	0.88	1.90	17.840	7.480	6205 ZZ	6203 ZZ
2	1.5	143/5T	2.96	K	8.5	2.8	3.5	0.0465	14	31	44	1.15	3500	82.5	84.0	84.0	0.71	0.82	0.88	2.55	18.234	7.874	6205 ZZ	6203 ZZ
3	2.2	182/4T	4.43	K	8.3	2.3	3.5	0.1391	27	59	68	1.15	3510	82.5	85.5	85.5	0.69	0.80	0.85	3.80	21.261	8.661	6206 ZZ	6205 ZZ
5	3.7	182/4T	7.41	H	7.4	2.1	3.4	0.1739	16	35	77	1.15	3495	86.5	87.5	87.5	0.74	0.84	0.89	5.96	21.655	9.055	6206 ZZ	6205 ZZ
7.5	5.5	213/5T	11.0	H	7.0	2.4	3.1	0.4665	13	29	141	1.15	3525	86.5	88.5	88.5	0.75	0.84	0.89	8.76	27.736	10.630	6208 ZZ	6206 ZZ
10	7.5	213/5T	14.7	G	6.7	2.2	2.8	0.5496	10	22	156	1.15	3520	88.5	89.5	89.5	0.75	0.84	0.89	11.8	28.524	11.417	6208 ZZ	6206 ZZ
15	11	254/6T	22.1	H	6.6	1.9	2.8	0.705	12	26	181	1.15	3520	87.5	89.5	90.2	0.68	0.79	0.85	18.0	30.454	12.992	6309 Z-C3	6208 Z-C3
20	15	254/6T	29.5	G	6.3	1.9	2.6	1.05	12	26	216	1.15	3515	90.2	91.0	90.2	0.78	0.86	0.89	23.5	30.454	12.992	6309 Z-C3	6208 Z-C3
25	18.5	254/6T	36.7	J	8.3	2.4	3.4	1.31	8	18	245	1.15	3530	91.0	91.7	91.0	0.77	0.85	0.89	28.7	32.242	13.780	6309 Z-C3	6208 Z-C3
Optional																								
3	2.2	143/5T	4.47	J	8.4	2.7	3.3	0.1407	9	20	53	1.15	3480	84.0	85.5	85.5	0.78	0.87	0.91	3.55	19.021	8.661	6205 ZZ	6203 ZZ
7.5	5.5	182/4T	11.2	J	8.0	2.7	3.6	0.1913	19	42	88	1.15	3480	88.5	89.5	88.5	0.77	0.86	0.90	8.67	22.049	9.449	6206 ZZ	6205 ZZ
15	11	213/5T	22.1	J	8.2	2.8	3.3	0.6341	11	24	178	1.15	3520	90.2	91.0	90.2	0.76	0.85	0.89	17.2	29.858	12.992	6208 ZZ	6206 ZZ
IV Poles																								
1	0.75	143/5T	2.94	L	7.6	2.9	3.5	0.0973	18	40	41	1.15	1760	78.5	82.5	82.5	0.50	0.64	0.73	1.56	17.840	7.480	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	4.42	K	7.8	2.7	3.4	0.1232	13	29	46	1.15	1760	81.5	84	84.0	0.53	0.67	0.76	2.16	18.234	7.874	6205 ZZ	6203 ZZ
2	1.5	143/5T	5.90	K	7.5	2.6	3.3	0.1419	10	22	51	1.15	1755	81.5	84	84.0	0.53	0.67	0.76	2.95	19.021	8.661	6205 ZZ	6203 ZZ
3	2.2	182/4T	8.83	K	7.7	2.4	3.5	0.2935	16	35	73	1.15	1760	85.5	87.5	87.5	0.58	0.71	0.78	4.05	21.261	8.661	6206 ZZ	6205 ZZ
5	3.7	182/4T	14.8	J	7.2	2.0	3.0	0.3695	8	18	86	1.15	1750	86.5	87.5	87.5	0.61	0.74	0.81	6.55	23.836	10.236	6206 ZZ	6205 ZZ
7.5	5.5	213/5T	22.0	H	7.1	2.3	2.9	1.07	11	24	146	1.15	1765	88.5	89.5	89.5	0.67	0.79	0.85	9.07	27.736	10.630	6208 ZZ	6206 ZZ
10	7.5	213/5T	29.5	H	6.8	2.1	2.6	1.29	8	18	162	1.15	1755	89.5	89.5	89.5	0.72	0.82	0.87	12.1	28.918	11.811	6208 ZZ	6206 ZZ
15	11	254/6T	44.2	H	6.4	2.2	2.8	1.65	11	24	197	1.15	1760	89.5	90.2	91.0	0.63	0.75	0.81	18.7	31.454	12.992	6309 Z-C3	6208 Z-C3
20	15	254/6T	58.9	G	5.9	2.1	2.7	2.15	12	26	233	1.15	1760	91.0	91.0	91.0	0.67	0.78	0.83	24.9	31.454	12.992	6309 Z-C3	6208 Z-C3
VI Poles																								
1	0.75	143/5T	4.52	K	6.3	2.7	3.2	0.1037	31	68	44	1.15	1145	77.0	80.0	80.0	0.49	0.62	0.71	1.66	17.840	7.480	6205 ZZ	6203 ZZ
1.5	1.1	182/4T	6.64	K	6.9	2.1	3.2	0.4786	32	70	79	1.15	1170	81.5	84.0	85.5	0.50	0.62	0.71	2.27	22.049	9.449	6206 ZZ	6205 ZZ
2	1.5	182/4T	8.86	M	8.4	2.6	3.7	0.5657	20	44	89	1.15	1170	82.5	85.5	86.5	0.47	0.60	0.69	3.15	22.836	10.236	6206 ZZ	6205 ZZ
3	2.2	213/5T	13.2	H	6.2	2.3	2.8	0.8104	36	79	123	1.15	1175	85.5	87.5	87.5	0.53	0.66	0.74	4.26	27.342	10.236	6208 ZZ	6206 ZZ
5	3.7	213/5T	22.0	J	6.4	2.5	2.8	1.08	20	44	146	1.15	1175	86.5	87.5	87.5	0.55	0.68	0.75	7.08	27.736	10.630	6208 ZZ	6206 ZZ
7.5	5.5	254/6T	33.1	G	5.5	2.2	2.4	1.84	27	59	202	1.15	1175	87.5	89.5	89.5	0.55	0.67	0.74	10.4	31.454	12.992	6309 Z-C3	6208 Z-C3
10	7.5	254/6T	44.1	G	5.5	2.2	2.4	2.17	20	44	224	1.15	1175	88.5	89.5	89.5	0.56	0.68	0.75	14	31.454	12.992	6309 Z-C3	6208 Z-C3

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

W01 Brake Motor - TEFC - Premium Efficiency - Three-phase - 60 Hz

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)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	Il/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
0.25	0.18	W56	0.370	M	7.4	3.5	4.0	0.0147	30	66	20.6	1.15	3460	55.0	62.0	66.0	0.60	0.70	0.75	0.456	14.625	5.512	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.500	M	7.1	3.2	3.7	0.0147	28	62	20.6	1.15	3450	59.5	66.0	70.0	0.61	0.71	0.76	0.590	14.625	5.512	6203 ZZ	6202 ZZ
0.5	0.37	W56	0.750	L	7.7	3.3	3.6	0.0190	18	40	23.2	1.15	3435	68.0	72.0	74.0	0.64	0.75	0.80	0.784	15.019	5.906	6203 ZZ	6202 ZZ
0.75	0.55	W56	1.13	L	8.1	3.5	3.6	0.0211	16	35	24.2	1.15	3440	70.0	75.5	77.0	0.62	0.74	0.80	1.12	15.019	5.906	6203 ZZ	6202 ZZ
1	0.75	W56	1.51	M	8.8	3.6	3.8	0.0254	10	22	26.5	1.15	3435	74.0	77.0	78.5	0.63	0.75	0.80	1.50	15.413	6.300	6203 ZZ	6202 ZZ
1.5	1.1	56	2.21	L	9.1	2.3	3.0	0.1023	17	37	46.4	1.15	3520	80.0	82.5	84.0	0.71	0.82	0.88	1.87	17.771	7.480	6204 ZZ	6202 ZZ
2	1.5	56H	2.94	L	9.9	2.5	3.0	0.1279	13	29	49	1.15	3520	82.5	85.5	85.5	0.73	0.83	0.89	2.47	18.559	8.268	6204 ZZ	6202 ZZ
3	2.2	56H	4.44	K	9.5	3.0	3.8	0.1663	10	22	57	1.15	3500	84.0	86.5	86.5	0.78	0.87	0.91	3.51	19.740	9.448	6204 ZZ	6202 ZZ
Optional																								
0.25	0.18	48	0.370	M	7.4	3.5	4.0	0.0147	30	66	20.6	1.15	3460	55.0	62.0	66.0	0.60	0.70	0.75	0.456	14.251	5.512	6203 ZZ	6202 ZZ
0.33	0.25	48	0.500	M	7.1	3.2	3.7	0.0147	28	62	20.6	1.15	3450	59.5	66.0	70.0	0.61	0.71	0.76	0.590	14.251	5.512	6203 ZZ	6202 ZZ
0.5	0.37	48	0.750	L	7.7	3.3	3.6	0.0190	18	40	23.2	1.15	3435	68.0	72.0	74.0	0.64	0.75	0.80	0.784	14.645	5.906	6203 ZZ	6202 ZZ
0.75	0.55	48	1.13	L	8.1	3.5	3.6	0.0211	16	35	24.2	1.15	3440	70.0	75.5	77.0	0.62	0.74	0.80	1.12	14.645	5.906	6203 ZZ	6202 ZZ
1	0.75	48	1.51	M	8.8	3.6	3.8	0.0254	10	22	26.5	1.15	3435	74.0	77.0	78.5	0.63	0.75	0.80	1.50	15.039	6.300	6203 ZZ	6202 ZZ
2	1.5	56	2.94	L	9.9	2.5	3.0	0.1279	13	29	49	1.15	3520	82.5	85.5	85.5	0.73	0.83	0.89	2.47	18.559	8.267	6204 ZZ	6202 ZZ
3	2.2	56	4.44	K	9.5	3.0	3.8	0.1663	10	22	57	1.15	3500	84.0	86.5	86.5	0.78	0.87	0.91	3.51	19.740	9.449	6204 ZZ	6202 ZZ
IV Poles																								
0.25	0.18	W56	0.740	K	5.6	2.4	3.2	0.0280	28	62	20.2	1.15	1740	59.5	66.0	68.0	0.48	0.60	0.69	0.481	14.625	5.512	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.980	L	6.2	2.6	3.5	0.0358	22	48	22.1	1.15	1740	66.0	72.0	74.0	0.46	0.58	0.68	0.624	15.019	5.906	6203 ZZ	6202 ZZ
0.5	0.37	W56	1.50	J	6.4	2.3	3.1	0.0520	20	44	26.5	1.15	1730	74.0	77.0	78.5	0.54	0.67	0.76	0.778	15.807	6.693	6203 ZZ	6202 ZZ
0.75	0.55	56	2.21	L	7.7	2.4	3.6	0.0842	16	35	39.2	1.15	1760	75.5	80.0	81.5	0.49	0.62	0.71	1.19	16.984	6.693	6203 ZZ	6202 ZZ
1	0.75	56	2.94	M	8.6	2.8	3.0	0.1232	19	42	47	1.15	1765	82.5	84.0	85.5	0.52	0.66	0.75	1.47	18.165	7.874	6204 ZZ	6202 ZZ
1.5	1.1	56H	4.44	K	8.2	2.7	3.0	0.1101	21	46	57	1.15	1750	85.5	86.5	86.5	0.59	0.72	0.79	2.02	18.165	7.874	6204 ZZ	6202 ZZ
2	1.5	56H	5.94	K	8.2	2.7	3.0	0.1296	15	33	51.3	1.15	1745	85.5	87.5	86.5	0.60	0.73	0.80	2.72	18.559	8.268	6204 ZZ	6202 ZZ
Optional																								
0.25	0.18	48	0.740	K	5.6	2.4	3.2	0.0280	28	62	20.2	1.15	1740	59.5	66.0	68.0	0.48	0.60	0.69	0.481	14.251	5.512	6203 ZZ	6202 ZZ
0.33	0.25	48	0.980	L	6.2	2.6	3.5	0.0358	22	48	22.1	1.15	1740	66.0	72.0	74.0	0.46	0.58	0.68	0.624	14.645	5.906	6203 ZZ	6202 ZZ
0.5	0.37	48	1.50	J	6.4	2.3	3.1	0.0520	20	44	26.5	1.15	1730	74.0	77.0	78.5	0.54	0.67	0.76	0.778	15.433	6.693	6203 ZZ	6202 ZZ
1.5	1.1	56	4.44	K	8.2	2.7	3.0	0.1101	21	46	47	1.15	1750	85.5	86.5	86.5	0.59	0.72	0.79	2.02	18.165	7.874	6204 ZZ	6202 ZZ
2	1.5	56	5.94	K	8.2	2.7	3.0	0.1296	15	33	51.3	1.15	1745	85.5	87.5	86.5	0.60	0.73	0.80	2.72	18.559	8.267	6204 ZZ	6202 ZZ
VI Poles																								
0.25	0.18	56	1.12	K	4.7	1.9	3.0	0.0710	40	88	34.6	1.15	1160	59.5	66.0	68.0	0.42	0.53	0.62	0.536	16.196	5.906	6203 ZZ	6202 ZZ
0.33	0.25	56	1.47	L	5.3	2.2	3.3	0.0888	30	66	37.2	1.15	1160	64.0	70.0	72.0	0.41	0.52	0.61	0.714	16.590	6.299	6203 ZZ	6202 ZZ
0.5	0.37	56	2.23	K	5.6	2.4	3.3	0.1065	26	57	39	1.15	1160	68.0	74.0	75.5	0.41	0.53	0.63	0.976	16.984	6.693	6203 ZZ	6202 ZZ
0.75	0.55	56H	3.35	K	6.5	2.9	3.7	0.1419	40	88	45.2	1.15	1160	77.0	81.5	82.5	0.43	0.55	0.65	1.29	17.771	7.480	6204 ZZ	6202 ZZ
1	0.75	56H	4.52	J	5.8	2.3	2.8	0.1597	31	68	47.5	1.15	1145	80.0	82.5	82.5	0.50	0.63	0.72	1.58	18.165	7.874	6204 ZZ	6202 ZZ
Optional																								
0.75	0.55	56	3.35	K	6.5	2.9	3.7	0.1419	40	88	45.2	1.15	1160	77.0	81.5	82.5	0.43	0.55	0.65	1.29	17.771	7.480	6203 ZZ	6202 ZZ
1	0.75	56	4.52	J	5.8	2.3	2.8	0.1597	31	68	47.5	1.15	1145	80.0	82.5	82.5	0.50	0.63	0.72	1.58	18.165	7.874	6204 ZZ	6202 ZZ

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

W01 Brake Motor - TEFC - NEMA Premium Efficiency - Three-phase - 60 Hz

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque TI/Tn	Break-down Torque Tb/Tn	Inertia J (sq. ft.lb)	Allowable locked rotor time (s)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	II/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
1	0.75	143/5T	1.48	K	7.8	2.0	3.0	0.0643	22	48	34	1.15	3510	72.0	77.0	78.5	0.65	0.76	0.83	1.44	17.840	7.480	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	2.21	L	9.1	2.3	3.0	0.1023	17	37	42	1.15	3520	80.0	82.5	84.0	0.71	0.82	0.88	1.87	17.840	7.480	6205 ZZ	6203 ZZ
2	1.5	143/5T	2.94	L	9.9	2.5	3.0	0.1279	13	29	48	1.15	3520	82.5	85.5	85.5	0.73	0.83	0.89	2.47	18.627	8.268	6205 ZZ	6203 ZZ
3	2.2	182/4T	4.42	K	8.8	2.2	3.0	0.1564	22	48	72	1.15	3515	84.0	86.5	86.5	0.71	0.82	0.87	3.67	21.261	8.661	6206 ZZ	6205 ZZ
5	3.7	182/4T	7.40	J	7.8	2.2	3.0	0.2079	17	37	87	1.15	3500	87.5	88.5	88.5	0.76	0.85	0.89	5.90	22.836	10.236	6206 ZZ	6205 ZZ
7.5	5.5	213/5T	11.0	H	7.6	2.6	3.0	0.5496	15	33	155	1.15	3530	87.5	88.5	89.5	0.76	0.85	0.89	8.67	28.524	11.417	6208 ZZ	6206 ZZ
10	7.5	213/5T	14.7	H	7.5	2.6	3.0	0.7188	12	26	183	1.15	3530	89.5	90.2	90.2	0.80	0.88	0.91	11.5	30.098	12.992	6208 ZZ	6206 ZZ
15	11	254/6T	22.0	G	6.8	2.0	3.0	0.8718	14	31	197	1.15	3525	89.5	91.0	91.0	0.73	0.83	0.87	17.4	30.955	12.992	6309 Z-C3	6208 Z-C3
20	15	254/6T	29.5	G	6.6	2.0	2.9	1.22	12	26	233	1.15	3515	90.0	91.0	91.0	0.81	0.88	0.91	22.7	31.742	13.780	6309 Z-C3	6208 Z-C3
25	18.5	254/6T	36.7	J	8.3	2.4	3.4	1.31	8	18	245	1.15	3530	91.0	91.7	91.7	0.77	0.85	0.89	28.5	32.242	13.780	6309 Z-C3	6208 Z-C3
Optional																								
3	2.2	143/5T	4.44	K	9.5	3.0	3.8	0.1663	10	22	56	1.15	3500	84.0	86.5	86.5	0.78	0.87	0.91	3.51	19.809	9.449	6205 ZZ	6203 ZZ
7.5	5.5	182/4T	11.2	H	7.7	2.7	3.6	0.1913	19	42	88	1.15	3480	88.5	89.5	89.5	0.77	0.86	0.90	8.57	22.049	9.449	6206 ZZ	6205 ZZ
15	11	213/5T	22.1	J	8.2	2.8	3.3	0.6341	11	24	178	1.15	3520	90.2	91.0	91.0	0.76	0.85	0.89	17.0	30.598	12.992	6208 ZZ	6206 ZZ
IV Poles																								
1	0.75	143/5T	2.94	M	8.6	2.8	3.0	0.1232	19	42	45.9	1.15	1765	82.5	84.0	85.5	0.52	0.66	0.75	1.47	18.234	7.874	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	4.44	K	8.2	2.7	3.0	0.1101	21	46	45.9	1.15	1750	85.5	86.5	86.5	0.59	0.72	0.79	2.02	18.234	7.874	6205 ZZ	6203 ZZ
2	1.5	143/5T	5.94	K	8.2	2.7	3.0	0.1296	15	33	45.9	1.15	1745	85.5	87.5	86.5	0.60	0.73	0.80	2.72	18.627	8.268	6205 ZZ	6203 ZZ
3	2.2	182/4T	8.81	K	8.8	2.2	3.0	0.4017	18	40	88.3	1.15	1765	87.5	88.5	89.5	0.61	0.74	0.81	3.81	22.836	10.236	6206 ZZ	6205 ZZ
5	3.7	182/4T	14.8	J	7.0	2.2	3.0	0.308	16	35	80.4	1.15	1750	88.5	89.5	89.5	0.60	0.73	0.80	6.49	22.836	10.236	6206 ZZ	6205 ZZ
7.5	5.5	213/5T	22.0	H	7.3	2.6	3.0	0.938	22	48	144	1.15	1770	90.2	91.0	91.7	0.64	0.76	0.82	9.07	27.342	10.236	6208 ZZ	6206 ZZ
10	7.5	213/5T	29.4	H	7.0	2.5	3.0	1.07	15	33	152	1.15	1760	91.0	91.0	91.7	0.67	0.78	0.84	12.2	28.236	10.630	6208 ZZ	6206 ZZ
15	11	254/6T	43.9	G	6.5	2.5	3.0	2.15	19	42	219	1.15	1770	91.0	92.4	92.4	0.64	0.76	0.82	18.2	31.454	12.992	6309 Z-C3	6208 Z-C3
20	15	254/6T	58.7	H	6.7	2.7	3.0	2.64	16	35	260	1.15	1765	91.7	92.4	93.0	0.66	0.77	0.82	24.7	32.746	13.78	6309 Z-C3	6208 Z-C3
VI Poles																								
1	0.75	143/5T	4.52	J	5.8	2.3	2.8	0.1597	31	68	47	1.15	1145	80.0	82.5	82.5	0.50	0.63	0.72	1.58	18.234	7.874	6205 ZZ	6203 ZZ
1.5	1.1	182/4T	6.64	K	6.9	2.4	3.4	0.28	55	121	74	1.15	1170	84.0	86.5	87.5	0.50	0.63	0.71	2.22	21.261	8.661	6206 ZZ	6205 ZZ
2	1.5	182/4T	8.86	K	7.5	2.6	3.7	0.3424	44	97	84	1.15	1170	84.0	86.5	88.5	0.50	0.62	0.71	3.00	22.049	9.449	6206 ZZ	6205 ZZ
3	2.2	213/5T	13.2	H	6.4	2.3	2.9	1.08	46	101	152	1.15	1175	85.5	88.5	89.5	0.55	0.67	0.74	4.17	27.736	10.630	6208 ZZ	6206 ZZ
5	3.7	213/5T	22.0	H	6	2.2	2.5	1.26	30	66	168	1.15	1175	87.5	88.5	89.5	0.59	0.71	0.77	6.74	28.524	11.417	6208 ZZ	6206 ZZ
7.5	5.5	254/6T	33.1	G	5.4	2.0	2.3	2.34	42	92	226	1.15	1175	89.5	89.5	91.0	0.58	0.70	0.76	9.98	31.454	12.992	6309 Z-C3	6208 Z-C3
10	7.5	254/6T	44.1	G	5.4	2.1	2.3	2.83	30	66	261	1.15	1175	90.2	91.0	91.0	0.57	0.69	0.75	13.8	32.242	13.780	6309 Z-C3	6208 Z-C3

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

W01 Brake Motor - ODP - Standard Efficiency

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Ti/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Total Weight (lb)	Service Factor	460 V										Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)	C (in)	FC (in)		
														Efficiency			Power Factor							
HP	kW			Code	Ii/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
0.25	0.18	W56	0.370	L	5.8	2.5	3.0	0.0126	29	64	18.2	1.35	3460	55.0	62.0	62.0	0.54	0.65	0.74	0.492	13.425	5.906	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.500	L	5.9	2.7	3.0	0.0126	25	55	18.4	1.35	3450	59.5	66.0	66.0	0.53	0.66	0.75	0.634	13.425	5.906	6203 ZZ	6202 ZZ
0.5	0.37	W56	0.750	K	6.0	3.1	3.2	0.0126	26	57	18.6	1.25	3435	64.0	70.0	70.0	0.51	0.64	0.73	0.909	13.425	5.906	6203 ZZ	6202 ZZ
0.75	0.55	W56	1.13	K	6.5	3.0	2.9	0.0169	15	33	20.6	1.25	3425	68.0	72.0	72.0	0.56	0.70	0.79	1.21	13.818	6.300	6203 ZZ	6202 ZZ
1	0.75	W56	1.52	K	6.6	3.1	3.0	0.0190	12	26	21.7	1.25	3415	70.0	74.0	74.0	0.57	0.71	0.80	1.59	14.212	6.693	6203 ZZ	6202 ZZ
1.5	1.1	W56	2.28	K	8.1	3.5	3.2	0.0254	9	20	25.1	1.15	3410	75.5	78.5	78.5	0.62	0.76	0.84	2.09	14.606	7.087	6203 ZZ	6202 ZZ
2	1.5	56H	2.99	J	7.0	2.3	2.5	0.0840	10	22	36.0	1.15	3470	77.0	78.5	78.5	0.66	0.79	0.85	2.82	15.960	7.480	6204 ZZ	6202 ZZ
3	2.2	56H	4.51	J	7.0	2.2	2.5	0.0959	8	18	39.2	1.15	3450	80.0	81.5	81.5	0.70	0.82	0.87	3.89	16.748	8.268	6204 ZZ	6202 ZZ
Optional																								
0.25	0.18	48	0.370	L	5.8	2.5	3.0	0.0126	29	64	18.2	1.35	3460	55.0	62.0	62.0	0.54	0.65	0.74	0.492	13.051	5.905	6203 ZZ	6202 ZZ
0.25	0.18	56	0.370	M	7.0	2.8	3.6	0.0389	48	106	25.1	1.35	3520	52.5	62.0	64.0	0.53	0.64	0.72	0.490	14.779	6.299	6203 ZZ	6202 ZZ
0.33	0.25	48	0.500	L	5.9	2.7	3.0	0.0126	25	55	18.4	1.35	3450	59.5	66.0	66.0	0.53	0.66	0.75	0.634	13.051	5.905	brasilia	6202 ZZ
0.33	0.25	56	0.490	M	6.5	2.5	3.3	0.0389	38	84	25.1	1.35	3515	55.0	62.0	66.0	0.52	0.63	0.72	0.660	14.779	6.299	6203 ZZ	6202 ZZ
0.5	0.37	48	0.750	K	6.0	3.1	3.2	0.0126	26	57	18.6	1.25	3435	64.0	70.0	70.0	0.51	0.64	0.73	0.909	13.051	5.905	6203 ZZ	6202 ZZ
0.5	0.37	56	0.740	L	6.0	2.4	2.8	0.0389	34	75	25.3	1.25	3495	57.5	64.0	68.0	0.49	0.62	0.72	0.949	14.779	6.299	6203 ZZ	6202 ZZ
0.75	0.55	48	1.13	K	6.5	3.0	2.9	0.0169	15	33	20.6	1.25	3425	68.0	72.0	72.0	0.56	0.70	0.79	1.21	13.441	6.300	6203 ZZ	6202 ZZ
0.75	0.55	56	1.12	K	6.2	2.3	2.6	0.0453	31	68	27.3	1.25	3480	64.0	70.0	72.0	0.53	0.67	0.76	1.26	15.173	6.693	6203 ZZ	6202 ZZ
1	0.75	48	1.52	K	6.6	3.1	3.0	0.0190	12	26	21.7	1.25	3415	70.0	74.0	74.0	0.57	0.71	0.80	1.59	13.833	6.693	6203 ZZ	6202 ZZ
1	0.75	56	1.49	K	6.3	2.3	2.5	0.0517	23	51	28.6	1.25	3470	66.0	72.0	74.0	0.58	0.70	0.79	1.61	15.173	6.693	6204 ZZ	6202 ZZ
1.5	1.1	48	2.28	K	8.1	3.5	3.2	0.0254	9	20	25.0	1.15	3410	75.5	78.5	78.5	0.62	0.76	0.84	2.09	14.232	7.087	6203 ZZ	6202 ZZ
1.5	1.1	56	2.24	J	6.6	2.3	2.5	0.0648	17	37	32.6	1.15	3465	72.0	75.0	77.0	0.63	0.75	0.83	2.16	15.566	7.087	6204 ZZ	6202 ZZ
2	1.5	56	2.99	J	7.0	2.3	2.5	0.0840	10	22	37.6	1.15	3470	77.0	78.5	78.5	0.66	0.79	0.85	2.82	15.960	7.480	6204 ZZ	6202 ZZ
3	2.2	56	4.51	J	7.0	2.2	2.5	0.0959	8	18	40.0	1.15	3450	80.0	81.5	81.5	0.70	0.82	0.87	3.89	16.75	8.267	6204 ZZ	6202 ZZ
IV Poles																								
0.16	0.12	W56	0.480	L	5.1	2.4	3.0	0.0240	46	101	18.2	1.35	1740	50.5	59.5	64.0	0.45	0.55	0.64	0.368	13.425	5.906	6203 ZZ	6202 ZZ
0.25	0.18	W56	0.750	J	4.7	2.1	2.7	0.0240	30	66	18.2	1.35	1730	52.5	59.5	64.0	0.47	0.58	0.68	0.519	13.425	5.906	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.990	K	5.0	2.3	2.8	0.0280	23	51	19.3	1.35	1730	55.0	62.0	66.0	0.45	0.57	0.67	0.710	13.818	6.300	6203 ZZ	6202 ZZ
0.5	0.37	W56	1.50	K	5.4	2.3	2.8	0.0318	15	33	20.4	1.25	1730	59.5	66.0	70.0	0.47	0.60	0.70	0.948	13.818	6.300	6203 ZZ	6202 ZZ
0.75	0.55	W56	2.25	J	5.9	2.4	2.8	0.0439	10	22	23.2	1.25	1730	66.0	72.0	74.0	0.50	0.63	0.74	1.26	14.606	7.087	6203 ZZ	6202 ZZ
1	0.75	W56	3.01	K	6.2	2.5	2.8	0.0520	8	18	25.4	1.15	1720	68.0	74.0	75.5	0.52	0.66	0.76	1.64	15.000	7.480	6203 ZZ	6202 ZZ
1.5	1.1	56H	4.45	K	6.9	2.5	2.8	0.0907	10	22	39.2	1.15	1745	75.5	78.5	80.0	0.51	0.65	0.75	2.30	15.960	7.480	6204 ZZ	6202 ZZ
2	1.5	56H	5.96	K	6.7	2.4	2.5	0.1037	7	15	42.5	1.15	1740	75.5	78.5	78.5	0.54	0.68	0.77	3.11	16.354	7.874	6204 ZZ	6202 ZZ
3	2.2	56H	8.96	K	7.1	2.4	2.7	0.1554	7	15	49.5	1.15	1735	80.0	81.5	81.5	0.57	0.71	0.79	4.29	16.748	8.268	6204 ZZ	6202 ZZ
Optional																								
0.16	0.12	48	0.480	L	5.1	2.4	3.0	0.0240	46	101	18.2	1.35	1740	50.5	59.5	64.0	0.45	0.55	0.64	0.368	13.051	5.905	6203 ZZ	6202 ZZ
0.25	0.18	48	0.750	J	4.7	2.1	2.7	0.0240	30	66	18.2	1.35	1730	52.5	59.5	64.0	0.47	0.58	0.68	0.519	13.051	5.905	6203 ZZ	6202 ZZ
0.25	0.18	56	0.740	M	5.9	2.3	3.5	0.0389	33	73	24.7	1.35	1760	55.0	62.0	66.0	0.41	0.51	0.60	0.571	14.385	5.906	6203 ZZ	6202 ZZ
0.33	0.25	48	0.990	K	5.0	2.3	2.8	0.0280	23	51	19.3	1.35	1730	55.0	62.0	66.0	0.45	0.57	0.67	0.710	13.441	6.300	6203 ZZ	6202 ZZ
0.33	0.25	56	0.970	L	5.5	2.0	3.1	0.0389	29	64	24.7	1.35	1755	57.5	64.0	68.0	0.43	0.54	0.64	0.721	14.385	5.906	6203 ZZ	6202 ZZ
0.5	0.37	48	1.50	K	5.4	2.3	2.8	0.0318	15	33	20.4	1.25	1730	59.5	66.0	70.0	0.47	0.60	0.70	0.948	13.441	6.300	6203 ZZ	6202 ZZ
0.5	0.37	56	1.48	L	6.0	2.2	2.9	0.0453	23	51	26.4	1.25	1755	64.0	70.0	72.0	0.43	0.56	0.66	0.977	14.779	6.299	6203 ZZ	6202 ZZ
0.75	0.55	48	2.25	J	5.9	2.4	2.8	0.0439	10	22	23.2	1.25	1730	66.0	72.0	74.0	0.50	0.63	0.74	1.26	14.232	7.087	6203 ZZ	6202 ZZ
0.75	0.55	56	2.21	K	6.3	2.3	3.0	0.0584	13	29	29.3	1.25	1755	66.0	72.0	75.5	0.45	0.58	0.68	1.34	15.173	6.693	6203 ZZ	6202 ZZ
1	0.75	48	3.01	K	6.2	2.5	2.8	0.0520	8	18	25.4	1.15	1720	68.0	74.0	75.5	0.52	0.66	0.76	1.64	14.625	7.480	6203 ZZ	6202 ZZ
1	0.75	56	2.96	L	6.6	2.5	2.9	0.0712	10	22	32.4	1.15	1750	68.0	74.0	77.0	0.44	0.58	0.68	1.80	15.173	6.693	6204 ZZ	6202 ZZ
1.5	1.1	56	4.45	K	6.9	2.5	2.8	0.0907	10	22	36.6	1.15	1745	75.5	78.5	80.0	0.51	0.65	0.75	2.30	15.960	7.480	6204 ZZ	6202 ZZ
2	1.5	56	5.96	K	6.7	2.4	2.5	0.1037	7	15	39.6	1.15	1740	75.5	78.5	78.5	0.54	0.68	0.77	3.11	16.354	7.874	6204 ZZ	6202 ZZ
3	2.2	56	8.96	K	7.1	2.4	2.7	0.1554	7	15	46.5	1.15	1735	80.0	81.5	81.5	0.57	0.71	0.79	4.29	16.748	8.267	6204 ZZ	6202 ZZ

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

W01 Brake Motor - ODP - High Efficiency

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)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	Il/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
1	0.75	143/5T	1.48	K	7.5	2.4	3.2	0.0278	27	59	36.7	1.15	3490	77.0	80.0	80.0	0.69	0.80	0.87	1.35	16.029	7.480	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	2.22	J	7.8	2.4	3.2	0.0358	22	48	41.0	1.15	3495	81.5	82.5	82.5	0.73	0.84	0.89	1.88	16.029	7.480	6205 ZZ	6203 ZZ
2	1.5	143/5T	2.96	K	8.0	2.5	3.4	0.0439	17	37	46.2	1.15	3500	82.5	84.0	84.0	0.74	0.84	0.89	2.52	16.423	7.874	6205 ZZ	6203 ZZ
3	2.2	143/5T	4.47	J	7.8	2.5	3.1	0.0496	12	26	49.5	1.15	3475	84.0	84.0	84.0	0.73	0.84	0.89	3.69	16.816	8.268	6205 ZZ	6203 ZZ
5	3.7	182/4T	7.38	H	7.0	1.8	2.9	0.1217	15	33	67.5	1.15	3510	85.5	86.5	85.5	0.71	0.82	0.87	6.24	18.515	7.874	6206 ZZ	6205 ZZ
7.5	5.5	182/4T	11.1	H	7.0	1.8	2.8	0.1559	8	18	77.9	1.15	3500	87.5	88.5	87.5	0.74	0.84	0.89	8.86	19.303	8.661	6206 ZZ	6205 ZZ
10	7.5	213/5T	14.7	G	6.4	1.8	2.6	0.3816	8	18	138	1.15	3530	87.5	88.5	88.5	0.72	0.83	0.87	12.2	24.882	10.236	6208 ZZ	6206 ZZ
15	11	213/5T	22.0	G	6.5	1.9	2.6	0.4651	6	13	155	1.15	3525	88.5	89.5	89.5	0.73	0.83	0.88	17.5	25.277	10.630	6208 ZZ	6206 ZZ
20	15	254/6T	29.4	G	6.0	1.8	2.4	0.6974	9	20	190	1.15	3520	88.5	89.5	90.2	0.75	0.84	0.88	23.7	28.765	12.992	6309 Z-C3	6208 Z-C3
25	18.5	254/6T	36.7	G	6.2	1.8	2.8	0.8718	9	20	210	1.15	3530	90.2	91.0	91.0	0.75	0.84	0.88	29.0	28.765	12.992	6309 Z-C3	6208 Z-C3
IV Poles																								
1	0.75	143/5T	2.94	L	7.4	2.8	3.3	0.0907	16	29	41.8	1.15	1760	77.0	81.5	82.5	0.46	0.60	0.70	1.63	16.029	7.480	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	4.43	K	7.6	2.7	3.5	0.1168	12	26	48.3	1.15	1755	80.0	84.0	84.0	0.52	0.65	0.75	2.19	16.423	7.874	6205 ZZ	6203 ZZ
2	1.5	143/5T	5.94	K	7.4	2.6	3.1	0.1296	10	22	51.7	1.15	1745	81.5	84.0	84.0	0.55	0.69	0.77	2.91	16.816	8.268	6205 ZZ	6203 ZZ
3	2.2	182/4T	8.81	J	6.8	2.2	2.9	0.2164	16	29	64.5	1.15	1765	85.5	86.5	86.5	0.59	0.72	0.79	4.04	18.515	7.874	6206 ZZ	6205 ZZ
5	3.7	182/4T	14.8	J	7.0	2.0	2.8	0.308	9	20	82.9	1.15	1750	86.5	87.5	87.5	0.62	0.75	0.82	6.47	20.149	9.055	6206 ZZ	6205 ZZ
7.5	5.5	213/5T	22.1	H	6.5	2.0	2.6	0.804	10	22	137.5	1.15	1760	87.5	88.5	88.5	0.67	0.79	0.84	9.29	24.882	10.236	6208 ZZ	6206 ZZ
10	7.5	213/5T	29.4	H	6.5	2.1	2.7	1.03	8	18	151.8	1.15	1760	89.5	90.2	89.5	0.68	0.79	0.85	12.4	25.381	10.236	6208 ZZ	6206 ZZ
15	11	254/6T	44.2	G	6.0	1.9	2.3	1.22	13	29	196.9	1.15	1760	90.2	91.0	91.0	0.66	0.77	0.82	18.5	29.505	12.992	6309 Z-C3	6208 Z-C3
20	15	254/6T	59	F	5.5	1.9	2.2	1.28	12	26	218.9	1.15	1755	91.0	91.0	91.0	0.67	0.78	0.81	25.5	30.010	12.992	6309 Z-C3	6208 Z-C3
VI Poles																								
1	0.75	143/5T	4.51	K	5.9	2.2	2.9	0.1296	19	42	50.7	1.15	1150	77.0	80.0	80.0	0.47	0.60	0.69	1.71	16.816	8.268	6205 ZZ	6203 ZZ
1.5	1.1	182/4T	6.64	K	6.8	2.0	3.1	0.3918	29	64	76.4	1.15	1170	81.5	84.0	84.0	0.49	0.62	0.71	2.31	19.303	8.661	6206 ZZ	6205 ZZ
2	1.5	182/4T	8.86	K	6.9	2.1	3.1	0.4786	24	53	86.9	1.15	1170	82.5	85.5	85.5	0.51	0.64	0.72	3.06	20.090	9.449	6206 ZZ	6205 ZZ
3	2.2	213/5T	13.2	J	6.5	2.3	2.7	0.9029	19	42	142	1.15	1180	84.0	85.5	86.5	0.52	0.66	0.74	4.31	24.882	10.236	6208 ZZ	6206 ZZ
5	3.7	213/5T	22.1	G	5.5	2.1	2.4	0.9006	23	51	146.3	1.15	1170	86.5	87.5	87.5	0.58	0.70	0.77	6.89	24.882	10.236	6208 ZZ	6206 ZZ
7.5	5.5	254/6T	33.1	G	5.0	2.0	2.3	1.50	30	66	197	1.15	1175	86.5	88.5	88.5	0.53	0.65	0.72	10.8	29.505	12.992	6309 Z-C3	6208 Z-C3
10	7.5	254/6T	43.9	G	5.2	2.1	2.4	2.00	28	62	232	1.15	1180	88.5	90.2	90.2	0.53	0.66	0.73	14.3	29.505	12.992	6309 Z-C3	6208 Z-C3

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

W01 Brake Motor - ODP - NEMA Premium Efficiency

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)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	Il/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
1	0.75	143/5T	1.48	L	8.3	2.1	3.3	0.0643	22	48	33.4	1.15	3510	74.0	78.5	80.0	0.66	0.78	0.85	1.38	16.029	7.480	6205 ZZ	6303 ZZ
1.5	1.1	143/5T	2.21	K	8.6	2.1	3.3	0.0835	19	42	37.3	1.15	3510	81.5	84.0	84.0	0.73	0.83	0.89	1.85	16.029	7.480	6205 ZZ	6303 ZZ
2	1.5	143/5T	2.95	K	8.9	2.2	3.3	0.1151	14	31	44.8	1.15	3510	84.0	85.5	85.5	0.77	0.86	0.91	2.42	16.816	8.268	6205 ZZ	6303 ZZ
3	2.2	143/5T	4.47	J	8.0	2.3	3.0	0.1279	9	20	47.9	1.15	3480	84.0	85.5	85.5	0.76	0.86	0.90	3.59	17.210	8.661	6205 ZZ	6303 ZZ
5	3.7	182/4T	7.38	J	7.6	1.9	3.0	0.1386	12	26	66.7	1.15	3510	85.5	86.5	86.5	0.73	0.83	0.88	6.10	19.303	8.661	6206 ZZ	6205 ZZ
7.5	5.5	182/4T	11.1	H	7.4	1.8	2.9	0.1818	10	22	77.9	1.15	3500	88.5	88.5	88.5	0.76	0.85	0.90	8.67	19.696	9.055	6206 ZZ	6205 ZZ
10	7.5	213/5T	14.7	H	6.8	2.0	2.8	0.4651	11	24	152.9	1.15	3535	88.5	89.5	89.5	0.74	0.84	0.88	12.0	25.277	10.630	6208 ZZ	6206 ZZ
15	11	213/5T	22.0	G	6.8	2.1	2.8	0.5512	8	18	170.5	1.15	3535	90.2	90.2	90.2	0.77	0.86	0.89	17.2	26.063	11.417	6208 ZZ	6206 ZZ
20	15	254/6T	29.4	G	6.0	1.8	2.4	0.7848	13	29	190.3	1.15	3525	90.2	91.0	91.0	0.76	0.83	0.87	23.8	28.765	12.992	6309 Z-C3	6208 Z-C3
25	18.5	254/6T	36.7	G	6.3	1.8	2.9	0.9155	9	20	215.6	1.15	3530	91.0	91.7	91.7	0.73	0.83	0.87	29.1	29.505	12.992	6309 Z-C3	6208 Z-C3
IV Poles																								
1	0.75	143/5T	2.94	L	8.0	2.9	3.6	0.1101	22	48	46.6	1.15	1760	81.5	84.0	85.5	0.51	0.65	0.73	1.51	16.029	7.480	6205 ZZ	6203 ZZ
1.5	1.1	143/5T	4.42	L	8.7	2.8	3.3	0.1426	15	33	54.9	1.15	1760	84.0	86.5	86.5	0.56	0.69	0.77	2.07	17.210	8.661	6205 ZZ	6203 ZZ
2	1.5	143/5T	5.96	K	7.7	2.6	3.2	0.1168	17	37	51.7	1.15	1740	85.5	86.5	86.5	0.61	0.74	0.81	2.69	17.210	8.661	6205 ZZ	6203 ZZ
3	2.2	182/4T	8.81	K	8.4	2.2	3.3	0.3092	15	33	81.3	1.15	1765	87.5	88.5	89.5	0.60	0.73	0.80	3.86	19.696	9.055	6206 ZZ	6205 ZZ
5	3.7	182/4T	14.7	J	7.2	2.0	3.1	0.4003	12	26	97.7	1.15	1760	88.5	88.5	89.5	0.63	0.76	0.82	6.33	21.330	10.236	6206 ZZ	6205 ZZ
7.5	5.5	213/5T	22.0	H	7.2	2.4	3.2	1.03	13	29	154	1.15	1770	89.5	90.2	91.0	0.65	0.77	0.82	9.25	24.882	10.236	6208 ZZ	6206 ZZ
10	7.5	213/5T	29.3	H	7.0	2.5	3.5	1.30	14	31	175	1.15	1770	90.2	91.0	91.7	0.64	0.77	0.83	12.4	25.381	10.236	6208 ZZ	6206 ZZ
15	11	254/6T	43.8	H	6.7	2.4	3.0	1.82	17	37	222.2	1.15	1775	91.7	92.4	93.0	0.62	0.73	0.80	18.6	29.505	12.992	6309 Z-C3	6208 Z-C3
20	15	254/6T	58.5	G	6.3	2.4	2.9	2.23	15	33	254.1	1.15	1770	92.4	92.4	93.0	0.63	0.74	0.81	25.0	30.010	12.992	6309 Z-C3	6208 Z-C3
VI Poles																								
1	0.75	143/5T	4.51	K	6.1	2.5	3.0	0.1419	24	53	47.6	1.15	1150	78.5	81.5	82.5	0.47	0.60	0.69	1.65	16.029	7.480	6205 ZZ	6203 ZZ
1.5	1.1	182/4T	6.67	J	6.5	2.0	3.1	0.2178	46	101	70.4	1.15	1165	84.0	85.5	86.5	0.51	0.63	0.71	2.25	18.515	7.874	6206 ZZ	6205 ZZ
2	1.5	182/4T	8.89	J	6.6	2.0	3.0	0.2800	33	73	81.5	1.15	1165	85.5	86.5	87.5	0.53	0.66	0.73	2.95	19.303	8.661	6206 ZZ	6205 ZZ
3	2.2	213/5T	13.2	H	5.9	2.1	2.6	0.8104	39	86	132.3	1.15	1175	86.5	87.5	88.5	0.56	0.68	0.75	4.16	24.882	10.236	6208 ZZ	6206 ZZ
5	3.7	213/5T	22.0	H	5.9	2.2	2.5	1.08	29	64	156.2	1.15	1175	88.5	89.5	89.5	0.58	0.70	0.77	6.74	25.276	10.630	6208 ZZ	6206 ZZ
7.5	5.5	254/6T	33.1	F	5.1	2.0	2.3	2.00	37	81	230.0	1.15	1175	88.5	90.2	90.2	0.56	0.68	0.75	10.2	29.505	12.992	6309 Z-C3	6208 Z-C3
10	7.5	254/6T	43.9	G	5.3	2.1	2.3	2.50	34	75	259.6	1.15	1180	91.0	91.7	91.7	0.56	0.68	0.74	13.9	29.505	12.992	6309 Z-C3	6208 Z-C3

1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

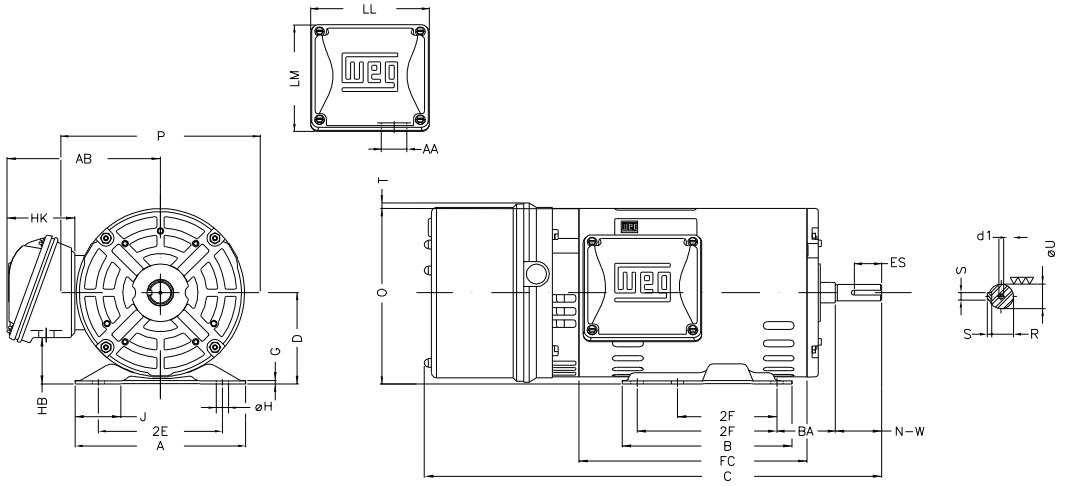
W01 Brake Motor - ODP - Premium Efficiency

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)		Total Weight (lb)	Service Factor	460 V								C (in)	FC (in)	Bearings	
													Rated speed (rpm)	% of full load						Full load current In (A)				
														Efficiency			Power Factor							
HP	kW			Code	Il/In				Hot	Cold				50	75	100	50	75	100				DE	NDE
II Poles																								
0.25	0.18	W56	0.370	K	5.8	2.5	3.0	0.0126	29	64	11.2	1.35	3460	55.0	64.0	66.0	0.53	0.65	0.74	0.463	13.425	5.906	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.500	K	5.9	2.7	3.0	0.0126	25	55	11.2	1.35	3450	59.5	68.0	70.0	0.53	0.66	0.75	0.598	13.425	5.906	6203 ZZ	6202 ZZ
0.5	0.37	W56	0.750	K	6.5	3.2	3.5	0.0126	27	59	11.2	1.25	3440	68.0	74.0	74.0	0.54	0.67	0.76	0.826	13.425	5.906	6203 ZZ	6202 ZZ
0.75	0.55	W56	1.13	J	6.9	3.0	3.3	0.0169	15	33	11.2	1.25	3430	72.0	75.5	77.0	0.60	0.73	0.82	1.09	13.818	6.300	6203 ZZ	6202 ZZ
1	0.75	W56	1.51	K	7.0	3.1	3.3	0.0190	13	29	11.2	1.25	3420	74.0	75.5	77.0	0.61	0.74	0.83	1.47	14.212	6.693	6203 ZZ	6202 ZZ
1.5	1.1	56	2.21	K	8.6	2.1	3.3	0.0835	20	44	41.0	1.15	3510	81.5	84.0	84.0	0.73	0.83	0.89	1.85	16.354	7.874	6204 ZZ	6202 ZZ
2	1.5	56H	2.95	K	8.9	2.2	3.3	0.1151	14	31	49.3	1.15	3510	84.0	85.5	85.5	0.77	0.86	0.91	2.42	17.141	8.661	6204 ZZ	6202 ZZ
3	2.2	56H	4.47	J	8.0	2.3	3.0	0.1279	9	20	52.7	1.15	3480	84.0	85.5	85.5	0.76	0.86	0.90	3.59	17.535	9.055	6204 ZZ	6202 ZZ
Optional																								
0.25	0.18	48	0.370	K	5.8	2.5	3.0	0.0126	29	64	11.2	1.35	3460	55.0	64.0	66.0	0.53	0.65	0.74	0.463	13.051	6.300	6203 ZZ	6202 ZZ
0.25	0.18	56	0.370	M	6.9	2.4	3.3	0.0389	43	95	26.5	1.35	3525	55.0	64.0	65.6	0.56	0.66	0.75	0.459	14.779	6.299	6203 ZZ	6202 ZZ
0.33	0.25	48	0.500	K	5.9	2.7	3.0	0.0126	25	55	11.2	1.35	3450	59.5	68.0	70.0	0.53	0.66	0.75	0.598	13.051	6.300	6203 ZZ	6202 ZZ
0.33	0.25	56	0.490	L	6.7	2.5	3.2	0.0389	38	84	26.7	1.35	3520	57.5	66.0	69.5	0.54	0.65	0.74	0.610	14.779	6.299	6203 ZZ	6202 ZZ
0.5	0.37	48	0.750	K	6.5	3.2	3.5	0.0126	27	59	11.2	1.25	3440	68.0	74.0	74.0	0.54	0.67	0.76	0.826	13.051	6.300	6203 ZZ	6202 ZZ
0.5	0.37	56	0.740	K	6.2	2.3	2.8	0.0389	39	86	27.0	1.25	3490	64.0	70.0	73.4	0.57	0.69	0.78	0.811	14.779	6.299	6203 ZZ	6202 ZZ
0.75	0.55	48	1.13	J	6.9	3.0	3.3	0.0169	15	33	11.2	1.25	3430	72.0	75.5	77.0	0.60	0.73	0.82	1.09	13.441	6.300	6203 ZZ	6202 ZZ
0.75	0.55	56	1.11	J	6.5	2.4	2.8	0.0453	33	73	28.9	1.25	3485	68.0	74.0	76.8	0.57	0.70	0.79	1.14	15.173	6.693	6203 ZZ	6202 ZZ
1	0.75	48	1.51	K	7.0	3.1	3.3	0.0190	13	29	11.2	1.25	3420	74.0	75.5	77.0	0.61	0.74	0.83	1.47	13.84	6.693	6203 ZZ	6202 ZZ
1	0.75	56	1.49	J	6.4	2.3	2.6	0.0517	23	51	30.4	1.25	3470	70.0	75.5	77.0	0.60	0.73	0.81	1.51	15.173	6.693	6204 ZZ	6202 ZZ
1.5	1.1	W56	2.27	K	8.0	3.3	3.6	0.0294	12	26	11.2	1.15	3420	82.5	84.0	84.0	0.65	0.78	0.85	1.93	15.000	7.480	6203 ZZ	6202 ZZ
1.5	1.1	48	2.27	K	8.0	3.3	3.6	0.0294	12	26	11.2	1.15	3420	82.5	84.0	84.0	0.65	0.78	0.85	1.93	14.625	7.480	6203 ZZ	6202 ZZ
2	1.5	56	2.95	K	8.9	2.2	3.3	0.1151	14	31	49.3	1.15	3510	84.0	85.5	85.5	0.77	0.86	0.91	2.42	17.141	8.661	6204 ZZ	6202 ZZ
3	2.2	56	4.47	J	8.0	2.3	3.0	0.1279	9	20	52.7	1.15	3480	84.0	85.5	85.5	0.76	0.86	0.90	3.59	17.535	9.055	6204 ZZ	6202 ZZ
IV Poles																								
0.25	0.18	W56	0.740	K	5.7	2.5	3.4	0.0280	34	75	11.2	1.35	1740	59.5	68.0	70.0	0.46	0.58	0.67	0.482	13.818	6.300	6203 ZZ	6202 ZZ
0.33	0.25	W56	0.980	L	6.4	2.7	3.6	0.0358	26	57	11.2	1.35	1740	64.0	72.0	74.0	0.47	0.59	0.69	0.615	14.212	6.693	6203 ZZ	6202 ZZ
0.5	0.37	W56	1.49	K	6.4	2.5	3.2	0.0439	23	51	11.2	1.25	1735	70.0	75.5	78.5	0.53	0.66	0.75	0.789	14.606	7.087	6203 ZZ	6202 ZZ
0.75	0.55	56	2.21	K	7.3	2.5	3.0	0.0712	21	46	34.5	1.25	1760	74.0	78.5	81.1	0.52	0.65	0.74	1.15	15.566	7.087	6203 ZZ	6202 ZZ
1	0.75	56	2.94	L	7.6	2.8	3.2	0.0842	17	37	37.6	1.15	1760	78.5	82.5	83.5	0.49	0.63	0.72	1.57	15.960	7.480	6204 ZZ	6202 ZZ
1.5	1.1	56H	4.42	L	8.8	2.9	3.5	0.1296	14	31	49.2	1.15	1760	84.0	85.5	86.5	0.53	0.66	0.76	2.10	17.141	8.661	6204 ZZ	6202 ZZ
2	1.5	56H	5.96	K	7.7	2.6	3.2	0.1168	17	37	47.8	1.15	1740	85.5	86.5	86.5	0.61	0.74	0.81	2.69	17.141	8.661	6204 ZZ	6202 ZZ
3	2.2	56H	8.96	K	7.6	2.7	3.0	0.1419	12	26	56.1	1.15	1735	86.5	86.5	86.9	0.59	0.72	0.80	3.97	17.535	9.055	6204 ZZ	6202 ZZ
Optional																								
0.25	0.18	48	0.740	K	5.7	2.5	3.4	0.0280	34	75	11.2	1.35	1740	59.5	68.0	70.0	0.46	0.58	0.67	0.482	13.441	6.300	6203 ZZ	6202 ZZ
0.25	0.18	56	0.730	M	5.9	2.3	3.3	0.0389	38	84	26.1	1.35	1765	57.5	64.0	69.5	0.41	0.52	0.61	0.533	14.384	5.906	6203 ZZ	6202 ZZ
0.33	0.25	48	0.980	L	6.4	2.7	3.6	0.0358	26	57	11.2	1.35	1740	64.0	72.0	74.0	0.47	0.59	0.69	0.615	13.838	6.693	6203 ZZ	6202 ZZ
0.33	0.25	56	0.970	L	6.2	2.3	3.3	0.0453	36	79	27.9	1.35	1765	62.0	70.0	73.4	0.44	0.55	0.64	0.668	14.779	6.299	6203 ZZ	6202 ZZ
0.5	0.37	48	1.49	K	6.4	2.5	3.2	0.0439	23	51	11.2	1.25	1735	70.0	75.5	78.5	0.53	0.66	0.75	0.789	14.232	7.087	6203 ZZ	6202 ZZ
0.5	0.37	56	1.47	L	7.2	2.4	3.3	0.0584	27	59	31.1	1.25	1765	70.0	75.5	78.2	0.47	0.60	0.69	0.861	15.173	6.693	6203 ZZ	6202 ZZ
2	1.5	56	5.96	K	7.7	2.6	3.2	0.1168	17	37	47.9	1.15	1740	85.5	86.5	86.5	0.61	0.74	0.81	2.69	17.141	8.661	6204 ZZ	6202 ZZ
3	2.2	56	8.96	K	7.6	2.7	3.0	0.1419	12	26	56.1	1.15	1735	86.5	86.5	86.9	0.59	0.72	0.80	3.97	17.535	9.055	6204 ZZ	6202 ZZ
VI Poles																								
0.25	0.18	56	1.12	K	4.8	2.1	2.8	0.0622	40	88	27.5	1.35	1160	55.0	64.0	67.5	0.41	0.52	0.61	0.549	14.779	6.299	6203 ZZ	6202 ZZ
0.33	0.25	56	1.47	K	5.0	2.1	2.8	0.0710	35	77	28.9	1.35	1160	59.5	66.0	71.4	0.42	0.53	0.63	0.698	14.779	6.299	6203 ZZ	6202 ZZ
0.5	0.37	56	2.24	J	5.1	2.0	2.6	0.0888	28	62	32.1	1.25	1155	68.0	74.0	75.3	0.43	0.56	0.66	0.934	15.173	6.693	6203 ZZ	6202 ZZ
0.75	0.55	56H	3.35	J	5.9	2.2	2.8	0.1685	33	73	46.6	1.15	1160	75.5	80.0	81.7	0.45	0.58	0.67	1.26	17.141	8.661	6204 ZZ	6202 ZZ
1	0.75	56H	4.47	K	6.2	2.4	3.0	0.1951	26	57	51.5	1.15	1160	77.0	81.5	82.5	0.45	0.58	0.68	1.68	17.535	9.055	6204 ZZ	6202 ZZ
Optional																								
0.75	0.55	56	3.35	J	5.9	2.2	2.8	0.1685	33	73	46.6	1.15	1160	75.5	80.0	81.7	0.45	0.58	0.67	1.26	17.141	8.661	6203 ZZ	6202 ZZ
1	0.75	56	4.47	K	6.2	2.4	3.0	0.1951	26	57	51.5	1.15	1160	77.0	81.5	82.5	0.45	0.58	0.68	1.68	17.535	9.055	6204 ZZ	6202 ZZ

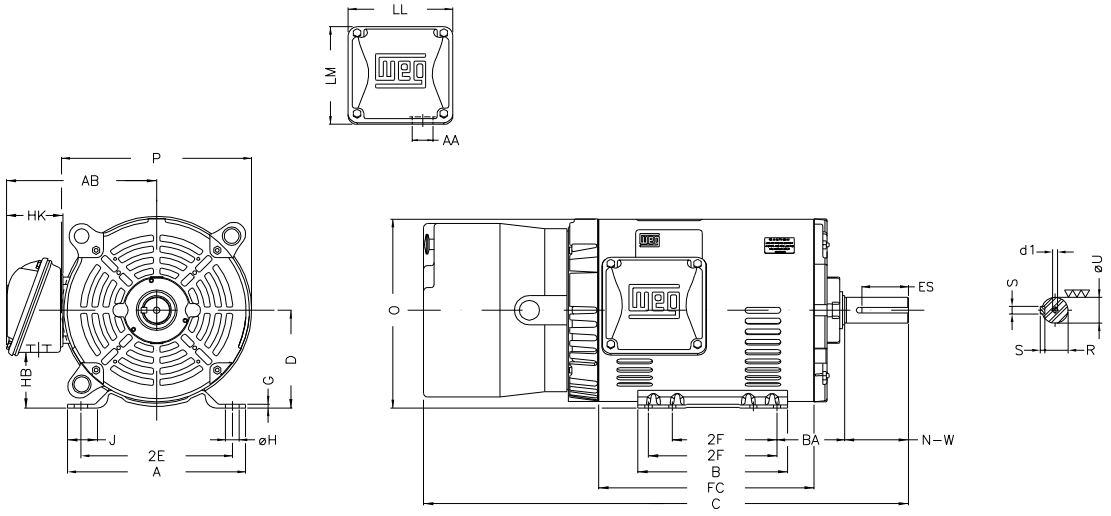
1) The full load current values for 230 V can be calculated multiplying by 2 the full load current value by 460 V.

Mechanical Data

ODP - Frames 143



ODP - Frames 182 up to 254

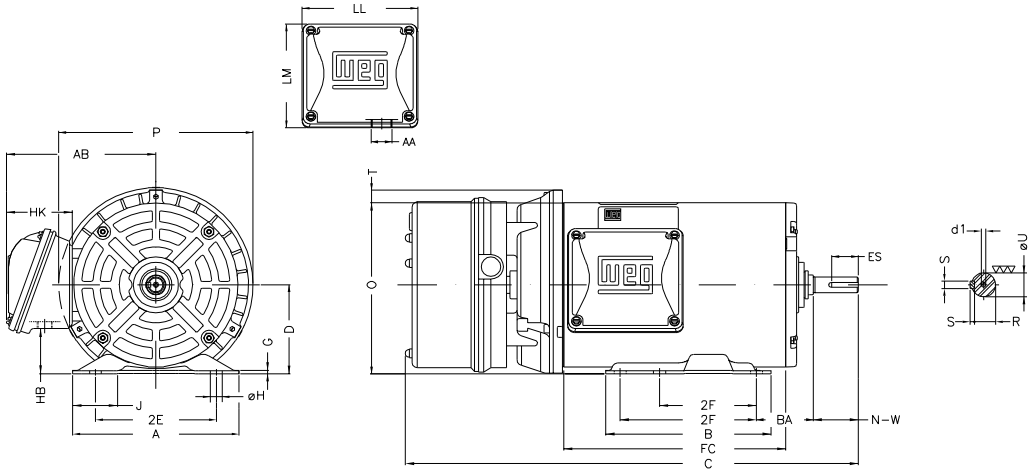


Frame	2E	J	A	P	AB	2F	B	BA	DE Shaft end					
									U	d1	N-W	ES	R	S
48	4.236	1.835	6.142	6.693	5.500	2.748	3.543	2.500	0.500	A 3.15	1.500	1.260	0.451	0.187
W56	4.874	1.620	6.535		5.520	3.000	4.016	2.750	0.625		1.874	1.417	0.517	
56		1.734		7.638	5.873									
56H		1.593				3.000/5.000	6.496							
143/5T	5.500	1.732			5.882	4.000/5.000		2.250	0.875		2.250		0.771	
182/4T	7.500	1.299	8.661	9.435	6.696	4.500/5.500	6.299	2.750	1.125		2.750	1.969	0.984	0.250
213/5T	8.500	1.575	9.449	10.965	7.973	5.500/7.000	7.953	3.500	1.375	A 4	3.380	2.480	1.203	0.313
254/6T	10.000	1.693	11.417	13.180	9.448	8.252/10.000	11.417	4.250	1.625		4.000	2.756	1.416	0.375

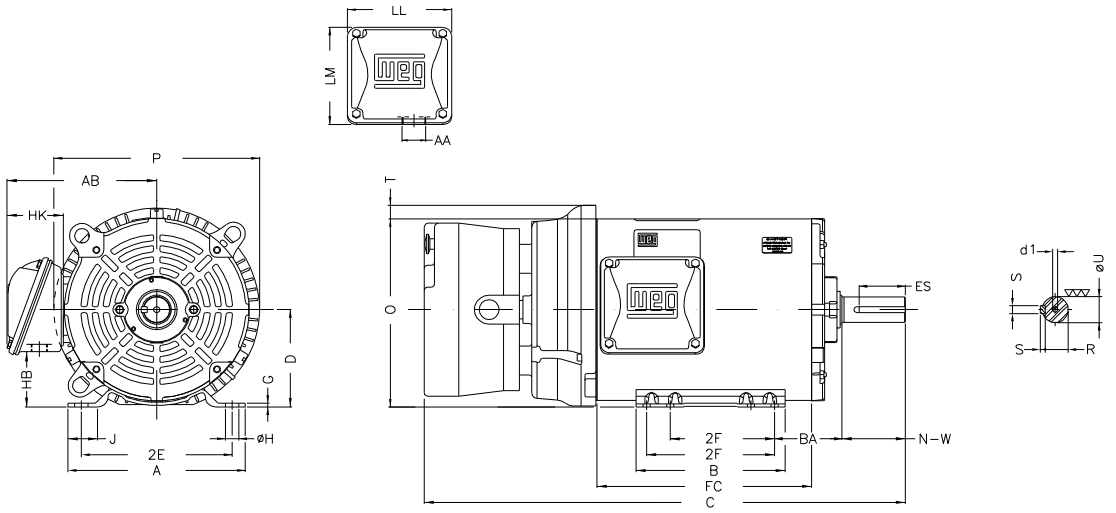
Frame	D	G	HB	O	HK	Hole H	LL	LM	AA	FC	C
48	3.000	0.075	1.560	5.830	2.650	1.220	3.835	3.697	NPT 1/2"	Dimension available in the electric tables	
W56	3.500		2.056	6.330							
56		0.118	1.784	6.724	2.629		4.563	4.090			
56H											
143/5T		0.120			2.638	0.343	4.543	4.106	NPT 3/4"		
182/4T	4.500	0.167	2.784	8.557	2.629	0.406	4.563	4.090			
213/5T	5.250		2.982	10.144	3.022		5.551	5.250	NPT 1"		
254/6T	6.250	0.187	3.631	12.010	3.645	0.530	6.299	6.017	NPT 1 1/4"		

Mechanical Data

TEFC - Frames 143



TEFC - Frames 182 up to 254

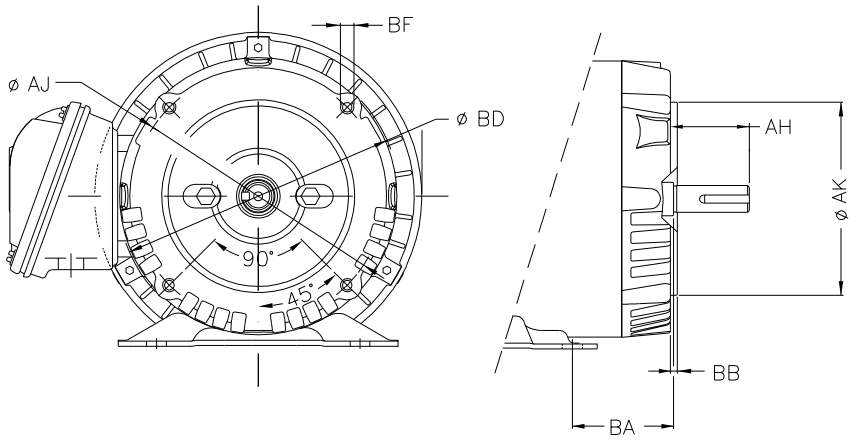


Frame	2E	J	A	P	AB	2F	B	BA	DE shaft end					
									U	d1	N-W	ES	R	S
48	4.236	1.835	6.142	6.693	5.500	2.748	3.543	2.500	0.500	A 3.15	1.500	1.260	0.451	0.187
W56	4.874	1.620	6.535		5.520	3.000	4.016	2.750	0.625		1.874	1.417	0.517	
56		1.734		7.638	5.873									
56H		1.593					6.496							
143/5T	5.500	1.732			5.882			2.250	0.875		2.250		0.771	
182/4T	7.500	1.299	8.661	9.435	6.696		6.299	2.750	1.125		2.750	1.969	0.984	0.250
213/5T	8.500	1.575	9.449	10.965	7.973		7.953	3.500	1.375	A 4	3.380	2.480	1.203	0.313
254/6T	10.000	1.693	11.417	13.180	9.448		11.417	4.250	1.625		4.000	2.756	1.416	0.375

Frame	D	G	HB	O	HK	Hole H	LL	LM	AA	T	FC	C
48	3.000	0.075	1.560	5.830	2.650	1.220	3.835	3.697	NPT 1/2"	0.524	Dimension available in the electric tables	
W56	3.500		2.056	6.330								
56		0.118	1.784	6.724	2.629		4.563	4.090		0.604		
56H												
143/5T		0.120			2.638	0.343	4.543	4.106	NPT 3/4"			
182/4T	4.500	0.167	2.784	8.557	2.629	0.406	4.563	4.090		0.661		
213/5T	5.250		2.982	10.144	3.022		5.551	5.250	NPT 1"	0.761		
254/6T	6.250	0.187	3.631	12.010	3.645	0.530	6.299	6.017	NPT 1 1/4"	0.830		

Mechanical Data

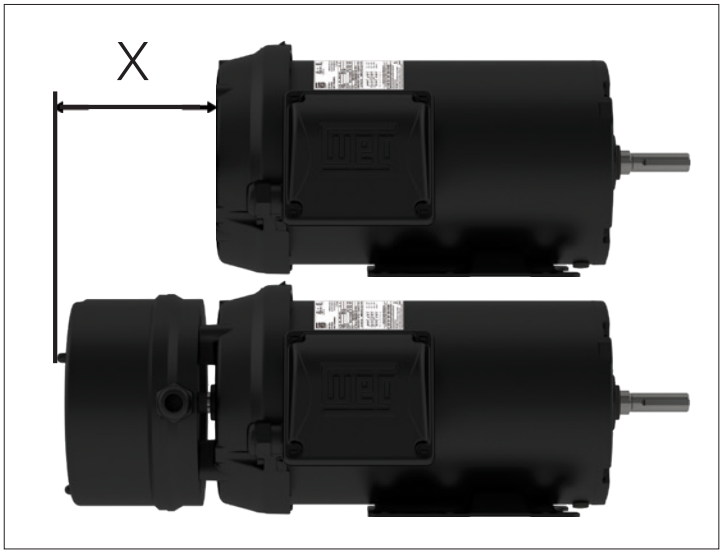
"C" Flange



Frame	Flange	BA	AJ	AK	BD	BF	BB	AH
48	FC-95	2.500	3.748	3.000	4.740	UNC 1/4"x20	0.157	1.689
W56C	FC-149	2.750	5.874	4.500	6.468	UNC 3/8"x16		2.062
56C	FC-149				6.450			
56HC	FC-149							
143/5TC	FC-149							2.129
182/4TC	FC-149	3.500	7.250	8.500	8.858	UNC 1/2"x13	0.250	2.620
213/5TC	FC-184	4.250			9.401			3.129
254/6TC	FC-184	4.750			11.084			3.750

Motor length with break

Comparison between motor lengths general use motor against W01 Brake Motor.
**Brake not compatible with general use motor.*



Frame	Maximum X (inches)	
	ODP/TEAO /TENV	TEFC
48 - W56	3.976	4.391
56 - 56H	4.370	4.960
143/5T		
182/4T	4.803	5.393
213/5T	7.559	8.385
254/6T	8.661	9.251

Figure 3 – Motor length with break.

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