

# GLOBAL SERIES

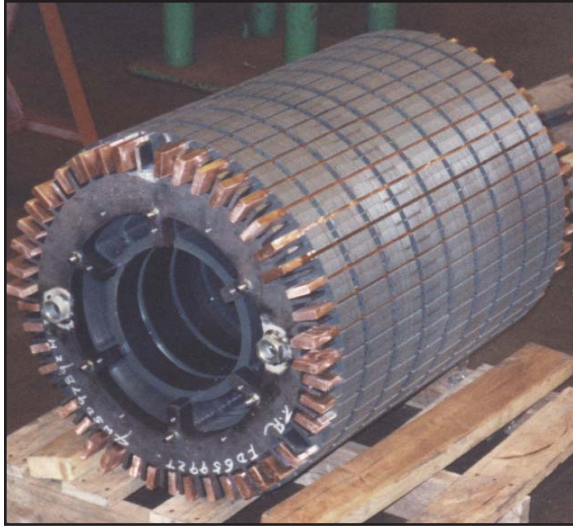
Totally Enclosed Fan Cooled  
& Open Drip Proof



 **TECO** - Westinghouse 

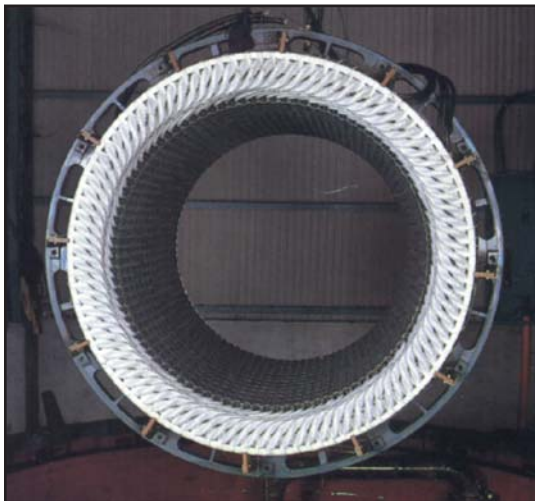
M O T O R   C O M P A N Y

# Construction Features



## Rotor:

All Global Series motors have high quality steel laminations and copper/copper alloy induction brazed rotor bars\* and end rings. This provides a high degree of strength and thermal capacity.



## Insulation:

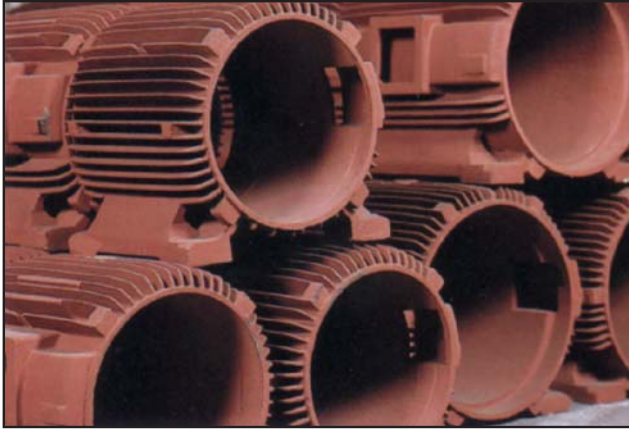
Low voltage models feature a Class F non-hygroscopic insulation system using a two cycle dip and bake varnish process. Medium voltage models feature Class F mica tape insulation which undergoes a two cycle VPI treatment using a high quality, solventless epoxy resin.

## Stator Core and Windings:

All Global Series motors include high grade, low loss steel for the stator core. Low voltage models have random-wound stator windings that are securely braced using end turn lacing prior to the varnish process. Medium voltage motors are form-wound and fitted with insulated bracing rings and felt inserts prior to the VPI treatment.

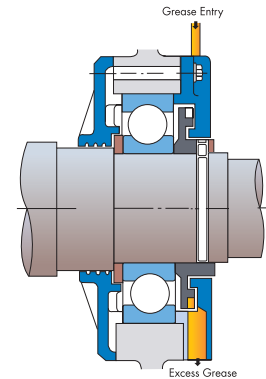
\* Die cast aluminum rotor design for TEFC-Low Voltage, 5000 frame, 2P, 4P, and 6P.





## Frame and End Brackets

All ratings feature high quality cast iron frames, end brackets and conduit boxes.



## Bearings and Lubrication:

All ratings use oversized, vacuum de-gassed bearings. The positive displacement re-greasing system allows for adding new grease while simultaneously expelling used grease.

## TEFC-MEDIUM VOLTAGE

HP	Full Load	Frame Size	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE					Rotor WR <sup>2</sup> LB FT <sup>2</sup>	NEMA Code Letter
			Full Load	3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load	Full Load	Locked Rotor	Full Load LB FT	Locked Rotor %FLT	Pull Up %FLT	Break Down %FLT			
200	1175	5007C	92.4	90.2	87.5	81.5	80.0	74.0	49.8	290	893	200	160	250	136	G	
	875	5009C	92.4	90.2	87.5	78.5	74.0	64.0	51.7	290	1200	125	100	210	242	G	
250	3575	5007A	93.0	91.0	88.5	90.2	88.5	84.0	55.9	365	367	110	90	220	54	G	
	1780	5007C	93.0	91.0	88.5	87.5	84.0	78.5	57.6	365	737	200	160	250	129	G	
	1180	5009C	93.0	91.0	88.5	82.5	80.0	74.0	61.1	365	1112	200	160	250	171	G	
	875	5808B	93.0	91.7	89.5	78.5	74.0	64.0	64.2	365	1500	125	100	210	418	G	
300	3580	5009A	93.6	92.4	89.5	90.2	87.5	84.0	66.6	440	440	110	90	220	66	G	
	1785	5009C	93.6	91.7	88.5	88.5	85.5	80.0	67.9	440	882	200	170	250	173	G	
	1185	5808B	93.6	91.7	89.5	84.0	81.5	75.5	71.5	440	1329	200	160	250	350	G	
	880	5808B	93.6	91.7	90.2	80.0	75.5	66.0	75.1	440	1790	125	100	210	538	G	
350	3580	5808A	93.6	91.7	89.5	90.2	87.5	84.0	77.7	510	513	110	90	210	107	G	
	1785	5808B	93.6	91.7	88.5	88.5	85.5	80.0	79.2	510	1029	200	160	250	242	G	
	1185	5808B	93.6	91.7	89.5	84.0	81.5	75.5	83.4	510	1550	200	160	250	403	G	
	880	5810B	93.6	91.7	89.5	80.0	75.5	66.0	87.6	510	2088	120	100	200	619	G	
400	3580	5808A	94.1	92.4	89.5	91.0	88.5	84.0	87.5	580	586	105	85	210	121	G	
	1785	5808B	94.1	92.4	89.5	89.5	86.5	81.5	89.0	580	1176	200	160	250	274	G	
	1185	5810B	94.1	92.4	90.2	85.5	82.5	77.0	93.2	580	1772	200	160	250	455	G	
	885	6806B	93.6	92.4	90.2	81.5	77.0	66.0	98.2	580	2373	115	95	200	956	G	
450	3585	6806A	94.1	92.4	89.5	91.0	89.5	84.0	98.5	650	659	105	85	210	244	G	
	1785	5810B	94.1	92.4	89.5	89.5	86.5	80.0	100.0	650	1323	200	160	250	302	G	
	1185	5810B	94.1	92.4	90.2	85.5	82.5	77.0	105.0	650	1993	200	160	250	502	G	
	885	6806B	93.6	92.4	90.2	82.5	77.0	66.0	110.0	650	2669	115	95	200	1040	G	
500	3585	6806A	94.5	93.0	91.0	91.7	89.5	86.5	108.0	725	732	105	85	200	269	G	
	1785	5810B	94.5	93.0	91.0	90.2	86.5	80.0	110.0	725	1470	200	160	250	332	G	
	1185	6806B	94.5	92.4	90.2	85.5	82.5	77.0	116.0	725	2215	200	160	250	802	G	
	885	6806B	94.1	93.0	91.0	82.5	80.0	72.0	121.0	725	2966	110	90	190	1084	G	
600	1785	6806B	94.5	93.0	91.0	90.2	86.5	81.5	132.0	885	1764	200	160	250	554	G	
	1185	6806B	94.5	93.0	91.7	86.5	84.0	78.5	138.0	885	2658	200	160	250	876	G	
	885	6808B	94.1	93.0	91.0	84.0	81.5	74.0	143.0	885	3559	110	90	190	1246	G	
700	1785	6806B	95.0	93.0	91.0	90.2	86.5	81.5	153.0	1025	2059	200	160	250	670	G	
	1185	6808B	95.0	93.6	91.7	86.5	84.0	78.5	160.0	1025	3101	200	160	250	1017	G	
800	1785	6808B	95.0	93.0	91.0	90.2	87.5	84.0	175.0	1180	2353	200	160	250	660	G	

Note: 1. Current based on 2300V.

2. The above are typical values based on test.

3. Test method: A. ANSI/IEEE standard 112-1996 Method B and full voltage starting for motors not over 300HP.

B. ANSI/IEEE standard 112-1996 Method E1 and full voltage starting for the others.

4. Data subject to change without notice.



# ODP/WPI-MEDIUM VOLTAGE

HP	Full Load	Frame Size	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				Rotor WR <sup>2</sup> LB Ft <sup>2</sup>	NEMA Code Letter
			Full Load	3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load	Full Load	Locked Rotor	Full Load LB FT	Locked Rotor % FLT	Pull Up % FLT	Break Down % FLT		
200	1170	5007C	91.7	91.0	89.5	81.5	78.5	74.0	50.1	290	896	100	80	200	120	G
	870	5009B	91.7	91.0	89.5	78.5	74.0	68.0	52.0	290	1206	100	80	200	204	G
250	1170	5007C	92.4	91.7	90.2	82.5	80.0	74.0	61.4	365	1120	110	90	200	150	G
	870	5009B	92.4	91.7	90.2	78.5	74.0	68.0	64.5	365	1507	110	90	200	219	G
300	1775	5007C	93.0	92.4	91.0	88.5	85.5	80.0	68.3	440	886	105	85	200	121	G
	1175	5009B	93.0	92.4	91.0	84.0	80.0	74.0	71.9	440	1339	110	90	200	169	G
	875	5808B	93.0	92.4	91.0	80.0	75.5	70.0	75.5	440	1798	100	80	200	425	G
350	3565	5007A	93.0	92.4	91.0	90.2	88.5	85.5	78.1	510	515	90	75	200	46	G
	1775	5007C	93.0	92.4	91.0	88.5	85.5	80.0	79.6	510	1034	105	85	200	141	G
	1175	5009B	93.0	92.4	91.0	84.0	80.0	74.0	83.9	510	1562	105	85	200	208	G
	875	5808B	93.0	92.4	91.0	80.0	75.5	70.0	88.1	506	2097	105	85	200	509	G
400	3565	5009A	93.6	93.0	91.7	91.0	87.5	84.0	87.9	580	588	100	80	200	52	G
	1775	5009B	93.6	93.0	91.7	89.5	86.5	81.5	89.4	580	1182	100	80	200	161	G
	1175	5808B	93.6	93.0	91.0	85.5	82.5	77.0	93.6	580	1785	105	85	200	311	G
	875	5808B	93.0	92.4	91.0	81.5	77.0	70.0	98.8	580	2397	105	85	200	548	G
450	3570	5808A	93.6	93.0	91.7	91.0	87.5	84.0	98.9	650	661	85	70	200	82	G
	1780	5808B	93.6	93.0	91.7	89.5	86.5	81.5	101.0	650	1326	100	80	200	193	G
	1175	5808B	93.6	93.0	91.0	85.5	82.5	77.0	105.0	650	2008	100	80	200	335	G
	875	5810B	93.0	92.4	91.7	82.5	80.0	72.0	110.0	650	2696	100	80	200	590	G
500	3570	5808A	94.1	93.6	91.7	91.7	88.5	84.0	109.0	725	734	100	80	200	91	G
	1780	5808B	94.1	93.6	91.7	90.2	87.5	84.0	110.0	725	1473	100	80	200	222	G
	1180	5808B	94.1	93.6	91.7	85.5	82.5	77.0	116.0	725	2222	100	80	200	372	G
	880	5810B	93.6	93.0	91.7	82.5	80.0	72.0	121.0	720	2979	100	80	200	740	G
600	3575	5808A	94.1	93.6	91.7	91.7	89.5	86.5	130.0	880	880	80	65	190	109	G
	1780	5808B	94.1	93.6	91.7	90.2	87.5	84.0	132.0	880	1767	100	80	190	266	G
	1180	5810B	94.1	93.6	91.7	86.5	84.0	80.0	138.0	880	2666	90	75	190	446	G
	880	6806B	93.6	93.0	91.7	84.0	81.5	74.0	143.0	870	3575	90	75	190	977	G
700	3575	5810A	94.5	93.6	91.7	91.7	89.5	86.5	151.0	1020	1027	80	65	190	127	G
	1780	5808B	94.5	93.6	91.7	90.2	87.5	84.0	154.0	1020	2062	90	75	190	310	G
	1180	5810B	94.5	93.6	91.7	86.5	84.0	81.5	160.0	1020	3110	90	75	190	465	G
	880	6808B	94.1	93.6	91.7	84.0	81.5	80.0	166.0	1015	4171	90	75	190	1135	G
800	3580	5810A	94.5	93.6	91.7	91.7	89.5	86.5	173.0	1170	1172	80	65	190	145	G
	1780	5810B	94.5	93.6	91.7	90.2	87.5	84.0	176.0	1170	2356	90	75	190	319	G
	1180	6806B	94.5	93.6	91.7	86.5	84.0	81.5	183.0	1170	3555	90	75	190	713	G
	880	6808B	94.1	93.6	91.7	84.0	81.5	80.0	190.0	1165	4767	85	70	185	1166	G
900	1785	5810B	95.0	94.1	93.0	90.2	88.5	85.5	197.0	1315	2644	90	75	185	398	G
	1185	6806B	94.5	93.6	92.4	86.5	84.0	81.5	206.0	1315	3982	90	75	185	802	G
1000	1785	6806B	95.0	94.1	93.0	90.2	88.5	85.5	219.0	1450	2937	90	75	185	586	G
	1185	6808B	95.0	94.1	93.0	86.5	84.0	82.5	228.0	1450	4425	85	70	185	875	G
1250	1785	6808B	95.0	94.1	93.0	90.2	88.5	85.5	273.0	1815	3672	90	75	185	732	G

- Note: 1. Current based on 2300V.  
 2. The above are typical values based on test.  
 3. Test method: A. ANSI/IEEE standard I 12-1996 Method B and full voltage starting for motors not over 300HP.  
 B. ANSI/IEEE standard I 12-1996 Method EI and full voltage starting for the others.  
 4. Data subject to change without notice.



## Additional Features

All medium voltage motors include 100Ω Platinum Stator RTD's, (2 pcs per phase) and 120V IØ Space Heaters as standard features.

# Ratings and Standards

## Power Supply:

AC, Three phase, 60Hz available for 460V, 575V, and 2300/4160V systems.

## Output Range:

Low voltage motors range from 200-500HP. Medium Voltage motors range from 200-1250HP.\*\*

## Speed Range:

3600-900RPM (2-8 Pole).

## Enclosure:

Available in TEFC (IP44) or ODP (IP22)/WPI enclosure.

## Duty Rating:

Continuous rating with 1.15 service factor.

## Performance:

All Global Series motors are designed to meet or exceed NEMA Design B or C torque requirements.

## Testing:

Routine testing is performed in accordance with NEMA MG-1-12 and IEEE 112 Method B for motors through 300HP; and Method EI for motors larger than 300HP.

\*\* Please refer to factory for NEMA T-frame, medium voltage motors

## TEFC-LOW VOLTAGE

HP	Full Load	Frame Size	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				Rotor WR <sup>2</sup> LB FT <sup>2</sup>	Code Letter	Approx Weight LBS
			Full Load	3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load	Full Load	Locked Rotor	Full Load LB FT	Locked Rotor %FLT	Pull Up %FLT	Break Down %FLT			
200	885	5007C	94.1	92.4	91.0	84.0	77.0	68.0	237	1450	1188	120	100	220	230	G	3550
	1180	5007C	94.1	92.4	91.0	86.5	82.5	74.0	288	1825	1113	200	160	220	205	G	3400
250	885	5009C	94.5	92.4	91.0	84.0	77.0	68.0	295	1825	1485	110	90	200	275	G	4000
	3580	5007A	94.5	92.4	91.0	91.0	88.5	85.5	327	2200	440	100	85	250	52	G	3250
300	1775	5007C	94.5	93.0	91.0	89.5	86.5	81.5	332	2200	887	200	160	220	132	G	3200
	1180	5009C	94.1	92.4	91.0	86.5	82.5	74.0	345	2200	1335	200	160	220	240	G	4100
350	885	5806B	94.5	92.4	91.0	84.0	77.0	68.0	353	2200	1782	100	80	200	456	G	4850
	3580	5009A	94.5	92.4	91.0	91.0	88.5	86.5	381	2550	514	110	90	250	58	G	3350
400	1775	5009C	94.5	93.0	91.0	90.2	86.5	81.5	384	2550	1035	200	160	220	154	G	3650
	1183	5806B	94.5	93.0	91.0	86.0	81.5	75.0	403	2550	1553	200	160	240	340	G	4600
450	885	5808B	94.5	92.4	91.0	84.0	77.0	68.5	413	2550	2078	100	80	200	540	G	5750
	3580	5808A	94.5	93.0	90.2	91.7	90.2	86.5	432	2900	587	100	80	250	116	G	4450
500	1780	5806B	94.5	93.0	90.2	90.2	87.5	81.5	439	2900	1180	200	160	230	270	G	4200
	1183	5808B	94.5	93.0	90.2	86.0	82.0	75.0	461	2900	1775	200	160	240	375	G	5100
450	888	5808B	94.5	92.4	90.2	84.0	77.5	68.5	472	2900	2364	100	80	220	572	G	5550
	1780	5808B	94.5	93.0	91.0	90.2	87.5	82.5	494	3250	1327	200	160	230	303	G	4850
500	1183	5808B	94.5	93.0	91.0	86.0	82.5	75.0	518	3250	1997	200	160	240	405	G	5300
	1780	5808B	94.5	93.0	91.0	90.5	88.0	82.5	547	3625	1475	200	160	230	340	G	5300
500	1183	5808B	94.5	93.0	91.0	86.5	82.5	76.0	573	3625	2219	200	160	240	435	G	5650

Note: 1. Current based on 460V.

2. The above are typical values based on test.

3. Test method: A. ANSI/IEEE standard 112-1996 Method B and full voltage starting for motors not over 300HP.

B. ANSI/IEEE standard 112-1996 Method EI and full voltage starting for the others.

4. Data subject to change without notice.

# GLOBAL SERIES

For more than a century, TECO-Westinghouse motors have been recognized as industry leaders in dependability and quality. TECO-Westinghouse Global Series motors are

designed and manufactured to the highest standards using top quality materials and superior workmanship. Our proven record of reliability is your assurance that TECO-Westinghouse Global Series motors are built to last and operate efficiently in most industrial applications.



## ODP-LOW VOLTAGE

HP	Full Load	Frame Size	EFFICIENCY			POWER FACTOR			CURRENT		TORQUE				Rotor WR <sup>2</sup> LB FT <sup>2</sup>	NEMA Code Letter	Approx Weight LBS
			Full Load	3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load	Full Load	Locked Rotor	Full Load LB FT	Locked Rotor %FLT	Pull Up %FLT	Break Down %FLT			
250	880	5007C	93.6	91.7	89.5	84.0	77.0	66.0	298	1825	1490	110	90	200	238	G	3630
300	1180	5007C	94.5	93.0	90.2	86.5	84.0	80.0	344	2200	1336	160	130	200	177	G	3100
	880	5009B	94.1	92.4	89.5	84.0	80.0	72.0	355	2200	1788	100	80	200	256	G	3850
350	1780	5007C	95.0	93.6	91.0	90.2	85.5	81.5	382	2550	1031	180	140	220	111	G	2860
	1180	5009B	94.5	93.0	90.2	86.5	84.0	80.0	401	2550	1558	130	100	200	200	G	3530
	880	5808B	93.6	91.7	89.5	84.0	80.0	72.0	417	2550	2086	100	80	200	377	G	4300
400	1780	5009B	95.0	93.6	91.0	90.2	85.5	81.5	437	2900	1179	180	140	220	132	G	3190
	1180	5806B	95.0	93.6	91.0	86.5	84.0	80.0	455	2900	1782	140	110	220	356	G	3560
	880	5808B	94.5	93.0	89.5	84.0	80.0	72.0	472	2900	2384	100	80	200	432	G	4550
450	3575	5009A	94.1	92.4	89.5	91.7	89.5	85.5	488	3250	662	100	80	200	45	G	3600
	1785	5806B	95.0	93.6	91.0	90.2	85.5	81.5	491	3250	1322	170	140	220	222	G	3830
	1185	5808B	95.0	93.6	91.0	86.5	84.0	80.0	513	3250	1992	200	160	250	438	G	4320
500	3575	5808A	94.5	93.0	90.2	91.7	89.5	85.5	540	3625	734	100	80	200	110	G	4180
	1785	5806B	95.0	93.6	91.0	90.2	85.5	81.5	547	3625	1469	200	160	250	270	G	3960
	1185	5808B	95.0	93.6	91.0	86.5	84.0	80.0	570	3625	2213	160	130	250	420	G	4840

- Note: 1. Current based on 460V.  
 2. The above are typical values based on test.  
 3. Test method: A. ANSI/IEEE standard 112-1996 Method B and full voltage starting for motors not over 300HP.  
 B. ANSI/IEEE standard 112-1996 Method E1 and full voltage starting for the others.  
 4. Data subject to change without notice.



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