

# Definite Purpose Stainless Steel - Shark™



## THREE PHASE

For food processing, pharmaceutical and other environments requiring extreme cleanliness and frequent washdowns, WEG offers a new design all-stainless steel motor, called the SHARK™. It's well-known that nothing stands up to a wet or corrosive environment as well as stainless steel. That's why it's considered the most desirable material for washdown duty motor frames and other exterior motor surfaces. And the entire line is certified Inverter Rated for use with a VFD. This rating meets or exceeds MG1 Part 31 NEMA Specifications. The Shark series of Stainless Steel products also includes our new Stainless Steel CFW-09 Drive Control.



## APPLICATIONS STANDARD FEATURES

- Washdown application
- Food processing
- Chemical processing
- Pharmaceuticals
- Poultry processing
- Meat processing
- Dairy applications
- Bakeries
- Snack foods
- Bottling
- Corrosive environment
- High Quality 304 seamless stainless tube frame
- Premium quality 6200 series bearings
- Inverter duty wire
- VPI with Epoxy encapsulated windings
- High Efficiency design
- Class 'F' insulation materials
- 1.15 Service Factor
- Class 'B' rise at 1.15 Service Factor
- Thermostats on each phase-auto reset
- Nameplate data laser etched on body of motor
- Double lip seals
- American threads and bolts stainless hardware
- 4 drain plugs in cast stainless endbells
- Drains in both ends
- Bearing retainers
- Conduit box and cover made of cast 304 stainless steel
- Cast 304 stainless steel endbell at both ends

### HIGHLIGHTS

- All stainless parts
- Partners with stainless steel Shark™ Variable Frequency Drive

- Threaded conduit entry for watertight connection
- TIG welded brackets + feet
- Rated MGI Part 31 for use with VFD
- Inverter Duty 101:1 VT
- T-Drain plug included



### RIGID BASE - C-FACE WITH FEET - THREE-PHASE

HP	RPM	NEMA FRAME	CATALOG NUMBER	LIST PRICE	MULT. SYM.	APPROX. SHIPP. WEIGHT (LBS.)	FL AMPS 230V	FL Eff. %	"C" DIMENSION (IN.)	VOLTAGE	NOTES
0.3	1800	56C	.3318EP3ESS56C	550	S1	41	0.60	79.8	11.260	208-230/460V	⊗
	3600	56C	.5036EP3ESS56C	569	S1	42	0.84	78.3	11.260	208-230/460V	⊗
0.5	1800	56C	.5018EP3ESS56C	575	S1	48	0.87	81.2	11.260	208-230/460V	⊗
	1200	56C	.5012EP3ESS56C	682	S1	63	0.91	79.1	11.260	208-230/460V	⊗
0.75	3600	56C	.7536EP3ESS56C	590	S1	47	1.17	81.9	11.260	208-230/460V	⊗
	1800	56C	.7518EP3ESS56C	616	S1	53	1.25	81.3	11.260	208-230/460V	⊗
	1200	56C	.7512EP3ESS56C	723	S1	68	1.29	82.9	11.260	208-230/460V	⊗
1	3600	56C	00136EP3ESS56C	649	S1	58	1.48	83.3	11.260	208-230/460V	
	1800	56C	00118EP3ESS56C	669	S1	60	1.58	82.3	11.260	208-230/460V	
	1800	56C	00118NP3ESS56C	669	S1	60	1.50	82.3	12.140	208-230/460V	⊗
	1800	143TC	00118EP3ESS143TC	714	S1	75	1.50	82.5	11.700	208-230/460V	
	1800	143TC	00118NP3ESS143TC	714	S1	75	1.50	82.5	12.200	208-230/460V	⊗

- ELECTRICAL FEATURES ON PAGE B-47.
- MECHANICAL FEATURES ON PAGE B-97.

⊗ = Totally Enclosed Non-Ventilated



## SHARK



### RIGID BASE - C-FACE WITH FEET THREE-PHASE

HP	RPM	NEMA FRAME	CATALOG NUMBER	LIST PRICE	MULT. SYM.	APPROX. SHIPP. WEIGHT (LBS.)	FL AMPS 230V	FL Eff. %	"C" DIMENSION (IN.)	VOLTAGE	NOTES
1.5	3600	56C	00156EP3ESS56C	764	S1	64	2.05	82.3	11.260	208-230/460V	
	3600	143TC	00156EP3ESS143TC	777	S1	72	2.00	82.5	12.200	208-230/460V	
	1800	56C	00158EP3ESS56C	783	S1	65	2.01	82.0	11.670	208-230/460V	
	1800	145TC	00158EP3ESS145TC	790	S1	70	2.20	84.0	12.200	208-230/460V	
2	3600	56C	00236EP3ESS56C	916	S1	73	2.62	83.0	13.230	208-230/460V	
	3600	145TC	00236EP3ESS145TC	1,005	S1	82	2.70	84.0	12.200	208-230/460V	
	1800	56C	00218EP3ESS56C	927	S1	78	2.69	85.0	13.230	208-230/460V	
	1800	145TC	00218EP3ESS145TC	1,016	S1	80	2.80	84.0	13.700	208-230/460V	
3	3600	145TC	00336EP3ESS145TC	1,303	S1	90	3.80	84.0	13.700	208-230/460V	♣
	3600	182TC	00336EP3ESS182TC	1,303	S1	95	3.80	85.5	15.300	208-230/460V	
	1800	182TC	00318EP3ESS182TC	1,307	S1	102	3.90	87.5	15.300	208-230/460V	
5	3600	184TC	00536EP3ESS184TC	1,547	S1	116	6.10	87.5	15.600	208/230/460V	
	1800	184TC	00518EP3ESS184TC	1,397	S1	130	6.50	87.5	16.000	208/230/460V	
7.5	3600	213TC	00736EP3ESS213TC	1,920	S1	175	8.90	88.5	19.000	208/230/460V	◆
	1800	213TC	00718EP3ESS213TC	1,914	S1	190	9.40	89.5	19.000	208/230/460V	◆
10	3600	215TC	01036EP3ESS215TC	2,359	S1	202	11.8	89.5	22.500	208/230/460V	◆
	1800	215TC	01018EP3ESS215TC	2,132	S1	207	12.5	90.2	22.500	208/230/460V	◆

- ELECTRICAL FEATURES ON PAGE B-47.
- MECHANICAL FEATURES ON PAGE B-94.



### ROUND BODY FOOTLESS – THREE-PHASE

HP	RPM	NEMA FRAME	CATALOG NUMBER	LIST PRICE	MULT. SYM.	APPROX. SHIPP. WEIGHT (LBS.)	FL AMPS 230V	FL Eff. %	"C" DIMENSION (IN.)	VOLTAGE	NOTES
0.3	1800	56C	.3318EP3ESS56CFL	550	S1	40	0.60	79.8	11.260	208-230/460V	⊗
0.5	3600	56C	.5036EP3ESS56CFL	569	S1	42	0.84	78.3	11.260	208-230/460V	⊗
	1800	56C	.5018EP3ESS56CFL	575	S1	47	0.87	81.2	11.260	208-230/460V	⊗
	1200	56C	.5012EP3ESS56CFL	682	S1	63	0.91	79.1	11.260	208-230/460V	⊗
0.75	3600	56C	.7536EP3ESS56CFL	590	S1	47	1.17	81.9	11.260	208-230/460V	⊗
	1800	56C	.7518EP3ESS56CFL	616	S1	52	1.25	81.3	11.260	208-230/460V	⊗
	1200	56C	.7512EP3ESS56CFL	723	S1	64	1.29	82.9	11.260	208-230/460V	⊗
1	3600	56C	00136EP3ESS56CFL	649	S1	58	1.48	83.3	11.260	208-230/460V	
	1800	56C	00118EP3ESS56CFL	669	S1	60	1.58	82.3	11.260	208-230/460V	
	1800	56C	00118NP3ESS56CFL	669	S1	60	1.50	82.3	12.140	208-230/460V	⊗
	1800	143TC	00118EP3ESS143TCFL	714	S1	75	1.50	82.5	11.700	208-230/460V	
	1800	143TC	00118NP3ESS143TCFL	714	S1	75	1.50	82.5	12.200	208-230/460V	⊗
1.5	3600	56C	00156EP3ESS56CFL	764	S1	63	2.05	82.3	11.260	208-230/460V	
	3600	145TC	00156EP3ESS145TCFL	777	S1	72	2.00	82.5	12.200	208-230/460V	
	1800	56C	00158EP3ESS56CFL	783	S1	64	2.01	82.0	11.670	208-230/460V	
	1800	145TC	00158EP3ESS145TCFL	790	S1	62	2.20	84.0	12.200	208-230/460V	
2	3600	56C	00236EP3ESS56CFL	916	S1	78	2.62	83.0	13.230	208-230/460V	
	3600	145TC	00236EP3ESS145TCFL	1,005	S1	82	2.70	84.0	12.200	208-230/460V	
	1800	56C	00218EP3ESS56CFL	927	S1	78	2.69	85.0	13.230	208-230/460V	
	1800	145TC	00218EP3ESS145TCFL	1,016	S1	80	2.80	84.0	13.700	208-230/460V	
3	3600	145TC	00336EP3ESS145TCFL	1,303	S1	90	3.80	84.0	13.700	208-230/460V	◆
	3600	182TC	00336EP3ESS182TCFL	1,303	S1	95	3.80	85.5	15.300	208-230/460V	
	1800	182TC	00318EP3ESS182TCFL	1,307	S1	102	3.90	87.5	15.300	208-230/460V	
5	3600	184TC	00536EP3ESS184TCFL	1,547	S1	115	6.10	87.5	16.000	208-230/460V	
	1800	184TC	00518EP3ESS184TCFL	1,397	S1	130	6.50	87.5	16.000	208-230/460V	
7.5	3600	213TC	00736EP3ESS213TCFL	1,920	S1	175	8.90	88.5	19.000	208-230/460V	◆
	1800	213TC	00718EP3ESS213TCFL	1,914	S1	190	9.40	89.5	19.000	208-230/460V	◆
10	3600	215TC	01036EP3ESS215TCFL	2,359	S1	202	11.8	89.5	22.500	208-230/460V	◆
	1800	215TC	01018EP3ESS215TCFL	2,132	S1	207	12.5	90.2	22.500	208-230/460V	◆

- ELECTRICAL FEATURES ON PAGE B-47.
- MECHANICAL FEATURES ON PAGE B-94.

⊗ = Total Enclosed Non-Ventilated ♣ = Reduced Frame ◆ = Not available in stock

## SHARK MOTORS

Rated Output		NEMA Frame	Rated Speed RPM	Full Load Amp	N/L Amp	Locked Rotor Torque %	Break-Down Torque %	100% Load Efficiency with Seal	Full Load Power Factor	Noise (dB)
HP	kW									
0.33	0.25	56C	1744	0.53	0.37	320	360	79.8	0.70	53
0.5	0.37	56C	3453	0.65	0.55	277	350	78.3	0.82	55
		56C	1736	0.73	0.49	240	320	81.2	0.76	55
		56C	1152	0.86	0.67	310	370	79.1	0.65	56
0.75	0.55	56C	3994	1.02	0.70	250	320	81.9	0.72	65
		56C	1730	1.06	0.67	270	320	81.3	0.78	58
		56C	1162	1.22	0.82	240	370	82.9	0.65	56
1	0.75	56C	3478	1.20	0.78	230	260	83.3	0.88	78
		56C	1738	1.40	0.88	252	290	82.3	0.81	54
		143TC	1725	1.50	0.80	320	320	82.5	0.77	-
1.5	1.1	56C	3480	1.85	0.64	288	310	82.3	0.90	68
		143TC	3450	2.00	0.94	220	280	82.5	0.84	-
		56C	1732	2.05	1.08	300	358	82.0	0.83	56
		143TC	1725	2.20	1.22	320	320	84.0	0.77	-
2	1.5	56C	3480	2.45	0.73	300	350	83.0	0.90	77
		143TC	3450	2.70	1.20	200	260	84.0	0.84	-
		56C	1738	2.55	1.45	250	360	85.0	0.82	58
		143TC	1735	2.80	1.81	300	300	84.0	0.79	-
3	2.2	182TC	3510	3.80	2.38	170	250	85.5	0.87	-
		182TC	1750	3.90	2.44	220	280	87.5	0.82	-
5	3.7	184TC	3510	6.10	3.00	170	250	87.5	0.88	-
		184TC	1750	6.50	3.17	200	250	87.5	0.73	-
7.5	5.5	213TC	3520	8.90	2.87	170	250	88.5	0.89	-
		184TC	1750	9.40	3.49	185	240	89.5	0.87	-
10	7.5	215TC	3520	11.8	3.69	160	240	89.5	0.89	-
		215TC	1750	12.5	4.53	170	220	90.2	0.84	-

SHARK MOTORS

Mounting Dimension

Frame	Mounting				A	B	C	D	U	N-W	Key			AB	AC	AA
	E	F	H	BA							R	ES	S			
56C	2.440	1.500	0.340	2.750	6.400	5.000	11.250 11.670	3.500	0.625	1.880	0.517	1.410	0.188	5.530	4.250	1.000
143TC	2.750	2.000				5.900	13.230 11.700		0.875	2.250	0.771					
145TC			3.750	2.250	0.410	3.500	8.700	6.400	15.300 14.900	4.500	1.125	2.750	0.986	1.780	0.250	7.000
182TC	4.250	3.500						7.500	16.000							
184TC			4.250	3.500	4.250	10.500	9.000	9.000	22.500	5.250	1.375	3.375	1.201	2.410	0.312	7.820
213TC	19.000															
215TC																

C-Flange Mounting Dimension

Frame	AJ	AK	Min BB	BC	Max BD	Number of Holes	Serew	Depth of Holes	D.E.	N.D.E.
56C	5.875	4.500	0.160	0.190	6.500	4.000	3/8-16	0.560	6205	6205
143TC				0.120						
145TC				0.120						
182TC	7.250	8.500	0.250	0.250	9.000	4.000	1/2-13	0.750	6207	6207
184TC				0.250						
213TC				0.250						
215TC										

