1-800-ASK-4WEG

SHARK by WEG

- Washdown Application
- Food Processing
- Chemical Processing
- Pharmaceuticals
- Corrosive Environment

Transforming Energy into Solutions

Stainless Steel Motors

The 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 VFD. This rating meets or exceeds MG1 Part 31 NEMA Specifications.

Standard Features

- 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
- Inverter Duty
- 4 drain plugs in cast stainless ends endbells
- Drains in both ends
- Bearing retainers
- Conduit box and cover made of cast 304 stainless steel
- Threaded conduit entry for watertight connection
- TIG welded brackets + feet
- Rated MG1 Part 31 for use with VFD
- T-Drain plug included

Applications

- Washdown application
- Food processing
- Chemical processing
- Pharmaceuticals
- Poultry processing
- Meat processing
- Dairy applications
- Bakeries
- Snack foods
- Bottling
- Corrosive environments

INVERTER RATED

SHARK by WEG

Stainless Steel Motors

RIGID BASE • C-FACE with FEET • IP55 • Three-Phase

HP	RPM	NEMA Frame	Catalog Number	List Price	App. Shpg. Wt. (Lb.)	FL Amps 460V	FL Eff. %	"C" Dimen. (in.)	Voltage	Enclos.
0.3	1800	56C	.3318EP3ESS56C	429.00	41	0.60	79.8	11.260	208-230/460V	TENV
0.50	3600	56C	.5036EP3ESS56C	438.00	42	0.84	78.3	11.260	208-230/460V	TENV
	1800	56C	.5018EP3ESS56C	493.00	48	0.87	81.2	11.260	208-230/460V	TENV
	1200	56C	.5012EP3ESS56C	614.00	63	0.91	79.1	11.260	208-230/460V	TENV
0.75	3600	56C	.7536EP3ESS56C	481.00	47	1.17	81.9	11.260	208-230/460V	TENV
	1800	56C	.7518EP3ESS56C	569.00	53	1.25	81.3	11.260	208-230/460V	TENV
	1200	56C	.7512EP3ESS56C	668.00	68	1.29	82.9	11.260	208-230/460V	TENV
1	3600	56C	00136EP3ESS56C	563.00	58	1.48	83.3	11.260	208-230/460V	TEFC
	1800	56C	00118EP3ESS56C	595.00	60	1.58	82.3	11.260	208-230/460V	TEFC
	1800	143TC	00118EP3ESS143TC	619.00	75	1.50	82.5	11.700	208-230/460V	TEFC
1.5	3600	56C	00156EP3ESS56C	595.00	64	2.05	82.3	11.260	208-230/460V	TEFC
	3600	145TC	00156EP3ESS145TC	691.00	72	2.00	82.5	12.200	208-230/460V	TEFC
	1800	56C	00158EP3ESS56C	624.00	65	2.01	82.0	11.670	208-230/460V	TEFC
	1800	145TC	00158EP3ESS145TC	731.00	70	2.20	84.0	12.200	208-230/460V	TEFC
2	3600	56C	00236EP3ESS56C	636.00	73	2.62	83.0	13.230	208-230/460V	TEFC
	3600	145TC	00236EP3ESS145TC	734.00	82	2.70	84.0	12.200	208-230/460V	TEFC
	1800	56C	00218EP3ESS56C	643.00	78	2.69	85.0	13.230	208-230/460V	TEFC
	1800	145TC	00218EP3ESS145TC	766.00	80	2.80	84.0	13.700	208-230/460V	TEFC
3	3600	145TC	00336EP3ESS145TC	904.00	90	3.80	84.0	13.700	208-230/460V	TEFC
	3600	182TC	00336EP3ESS182TC	904.00	95	3.80	85.5	15.300	208-230/460V	TEFC
	1800	182TC	00318EP3ESS182TC	1,008.00	102	3.90	87.5	15.300	208-230/460V	TEFC
5	3600	184TC	00536EP3ESS184TC	1,262.00	116	6.10	87.5	15.600	208/230/460V	TEFC
	1800	184TC	00518EP3ESS184TC	1,140.00	130	6.50	87.5	16.000	208/230/460V	TEFC
7.5	3600	213TC	00736EP3ESS213TC	1,567.00	175	8.90	88.5	19.000	208/230/460V	TEFC
	1800	213TC	00718EP3ESS213TC	1,444.00	190	9.40	89.5	19.000	208/230/460V	TEFC
10	3600	215TC	01036EP3ESS215TC	1,860.00	202	11.8	89.5	22.500	208/230/460V	TEFC
	1800	215TC	01018EP3ESS215TC	1,643.00	207	12.5	90.2	22.500	208/230/460V	TEFC

SHARK by WEG

Stainless Steel Motors

Round Body Footless • IP55 • Three-Phase

HP	RPM	NEMA Frame	Catalog Number	List Price	App. Shpg. Wt. (Lb.)	FL Amps 460V	FL Eff. %	"C" Dimen. (in.)	Voltage	Enclos.
0.3	1800	56C	.3318EP3ESS56CFL	429.00	40	0.60	79.8	11.260	208-230/460V	TENV
0.5	3600	56C	.5036EP3ESS56CFL	438.00	42	0.84	78.3	11.260	208-230/460V	TENV
	1800	56C	.5018EP3ESS56CFL	493.00	47	0.87	81.2	11.260	208-230/460V	TENV
	1200	56C	.5012EP3ESS56CFL	614.00	63	0.91	79.1	11.260	208-230/460V	TENV
0.75	3600	56C	.7536EP3ESS56CFL	482.00	47	1.17	81.9	11.260	208-230/460V	TENV
	1800	56C	.7518EP3ESS56CFL	569.00	52	1.25	81.3	11.260	208-230/460V	TENV
	1200	56C	.7512EP3ESS56CFL	668.00	64	1.29	82.9	11.260	208-230/460V	TENV
1	3600	56C	00136EP3ESS56CFL	563.00	57	1.48	83.3	11.260	208-230/460V	TEFC
	1800	56C	00118EP3ESS56CFL	595.00	59	1.58	82.3	11.260	208-230/460V	TEFC
	1800	143TC	00118EP3ESS143TCFL	619.00	75	1.50	82.5	11.700	208-230/460V	TEFC
1.5	3600	56C	00156EP3ESS56CFL	595.00	63	2.05	82.3	11.260	208-230/460V	TEFC
	3600	145TC	00156EP3ESS145TCFL	691.00	72	2.00	82.5	12.200	208-230/460V	TEFC
	1800	56C	00158EP3ESS56CFL	624.00	64	2.01	82.0	11.670	208-230/460V	TEFC
	1800	145TC	00158EP3ESS145TCFL	731.00	62	2.20	84.0	12.200	208-230/460V	TEFC
2	3600	56C	00236EP3ESS56CFL	636.00	78	2.62	83.0	13.230	208-230/460V	TEFC
	3600	145TC	00236EP3ESS145TCFL	734.00	82	2.70	84.0	12.200	208-230/460V	TEFC
	1800	56C	00218EP3ESS56CFL	643.00	78	2.69	85.0	13.230	208-230/460V	TEFC
	1800	145TC	00218EP3ESS145TCFL	766.00	80	2.80	84.0	13.700	208-230/460V	TEFC
3	3600	145TC	00336EP3ESS145TCFL	994.00	90	3.80	84.0	13.700	208-230/460V	TEFC
	3600	182TC	00336EP3ESS182TCFL	994.00	95	3.80	85.5	15.300	208-230/460V	TEFC
	1800	182TC	00318EP3ESS182TCFL	1,109.00	102	3.90	87.5	15.300	208-230/460V	TEFC
5	3600	184TC	00536EP3ESS184TCFL	1,388.00	115	6.10	87.5	16.000	208-230/460V	TEFC
	1800	184TC	00518EP3ESS184TCFL	1,254.00	130	6.50	87.5	16.000	208-230/460V	TEFC
7.5	3600	213TC	00736EP3ESS213TCFL	1,724.00	175	8.90	88.5	19.000	208-230/460V	TEFC
	1800	213TC	00718EP3ESS213TCFL	1,590.00	190	9.40	89.5	19.000	208-230/460V	TEFC
10	3600	215TC	01036EP3ESS215TCFL	2,046.00	202	11.8	89.5	22.500	208-230/460V	TEFC
	1800	215TC	01018EP3ESS215TCFL	1,807.00	207	12.5	90.2	22.500	208-230/460V	TEFC

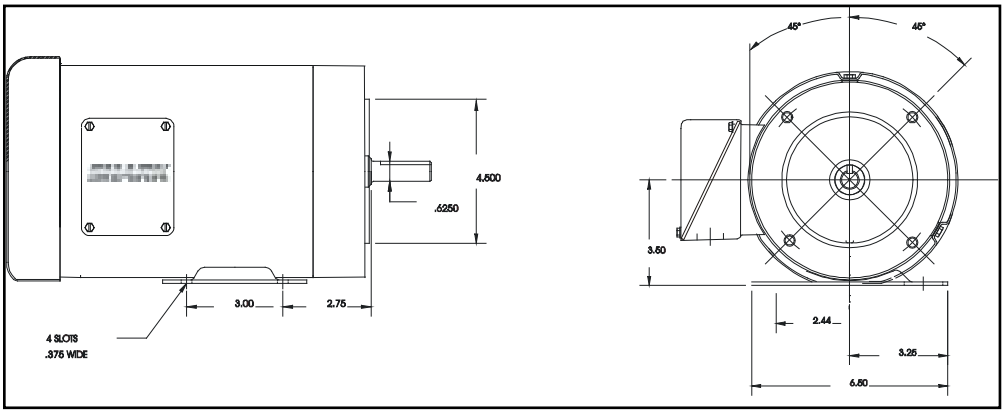
SHARK by WEG

Electrical Data

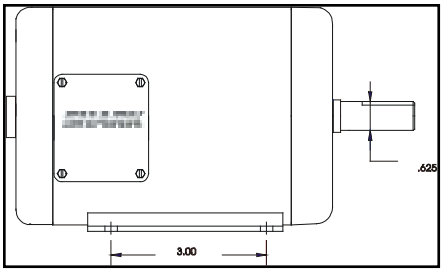
Rated Output		NEMA Frame	Rated Speed RPM	Full Load Amp	N/L Amp	Locked Rotor Torque %	Break-Down Torque %	100% Load Efficiency with Seal	Full Load Power Factor	Noise (dB)
HP	kW									
0.33	0.25	56C	1744	0.53	0.37	320	360	79.8	0.70	53
0.5	0.37	56C	3453	0.65	0.55	277	350	78.3	0.82	55
		56C	1736	0.73	0.49	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	-

Mechanical Data

TEFC Model



TENV Model



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							12.100 13.700									
182TC	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	5.300	
184TC						7.500	16.000									
213TC	4.250			4.250	10.500		19.000	5.250	1.375	3.375	1.201	2.410	0.312	7.820	5.920	-
215TC		3.500				9.000	22.500									

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										
182TC	7.250	8.500	0.250				1/2-13	0.750	6207	6207
184TC										
213TC				0.250	9.000				6208	6208
215TC										

Stainless Steel Drives

Don't forget our Shark Drives™...
The best VFD for the Shark Motors

The WEG SHARK VARIABLE FREQUENCY DRIVE is designed to complement the enclosure ruggedness of WEG's SHARK MOTOR Product Line . The All Stainless Steel NEMA 4X Enclosure is ideal for high pressure hose wash down and corrosive environments that are typically found in the food processing and pharmaceutical industries.
The Shark Drive's complete package combination of the CFW-09's triple control capability (Volts/Hertz, Sensorless or Closed Loop Vector) matched with the Shark Drive's NEMA4X enclosure rating allows the Shark Drive™ to succeed in virtually all applications in any industrial environment .

Standard Features

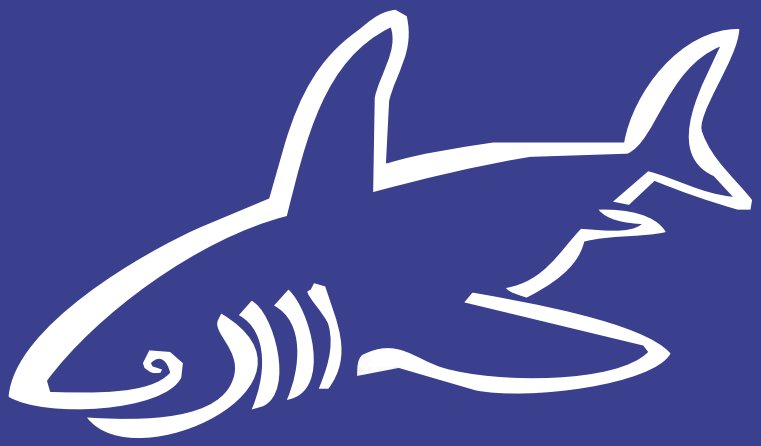
- NEMA 4X All Stainless Steel Enclosure
- V/Hz and Sensorless Vector Control
- Self Tuning
- Single and Three-phase input voltage
- 200-240V or 380-480V input voltage
- 150% current overload capacity
- Dynamic Braking transistor
- 32 bit RISC microprocessor controlled PWM output
- 1.25 / 2.5 / 5 / 10 kHz adjustable switching frequency
- Six isolated programmable digital inputs
- Three programmable relay outputs (250Vac / 1A)
- Two isolated programmable analog inputs
- Two programmable analog outputs
- Protective features: Over current, motor overload, drive over temperature, output phase-to-phase and phase-to-ground short circuit, DC bus over and under voltage, power supply under voltage and phase loss and external fault
- Control features: Linear and S ramp acceleration and deceleration, local/remote control, DC braking, torque boost, motor slip compensation, electronic pot, preset speeds, adjustable V/Hz profile, maximum and minimum adjustable frequency limits, two skip frequencies, adjustable output current limit, JOG, ride-thru and flying start and PID regulator
- Display readings: Motor speed, frequency, voltage, current and torque, output power (kW), four last faults, drive status, digital and analog I/O status,hours powered and hours running
- Ambient: 104°F (40°C), 3300 ft (1000m) altitude, 90% humidity, non-condensing

Applications

- Pumps
- Fans / Blowers
- Conveyors
- Rollout tables
- Agitators
- Mixers

Optional Features

- Close loop vector control
- RS-485 Serial Interface
- Fieldbus Comm: Profibus DP, DeviceNet or Modbus RTU
- Encoder buffered output
- Additional digital and analog I/O



Transforming Energy into Solutions

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