



SST Washguard - 3-phase Motors

Features

Stainless Steel Tough for demanding wash down applications!

- All exterior components of 300-Series stainless steel, including motor frame, endshield and conduit box castings
- 208-230/460 Voltage up to 2HP
- 1800 or 3600 RPM models available
- Offered in C-Face with Base or C-Face without Base.
- Moisture resistant sealant between frame and endbells
- Four locations for T-drains provided on each endshield
- Full-fact nameplate is laser etched on the motor frame
- CE mark

All Washguard series features:

- Interior Corrosion Protection
- Shaft seals on both ends of TEFC motors
- Sealed Bearings
- Internally locked shaft-end bearing
- Meets IP55 enclosure protection
- UL Recognized, CSA

Applications

Designed to meet the demanding washdown conditions that you may find in the food processing, chemical processing, pharmaceutical, and beverage/brewing industries..



[191204.00](#)

[191202.00](#)

Motor Specifications – 3-Phase

Motor Specifications – 3-Phase											
Part Number*	Price	HP	Base RPM	Volts	Service Factor	Encl.	NEMA Design	NEMA Frame	Weight (lb)	Drawing Links	
C-Face with Base											
191204.00	\$054du:	1/2	1800	208–230/460 VAC	1.15	TENV	B	56C	33	PDF	
191207.00	\$054dv:	3/4							35	PDF	
191206.00	\$;0054d#:								32	PDF	
191487.00	\$;0054dk:	1	1800			TEFC		143TC	46	PDF	
191561.00	\$;-0054dl:	1 1/2						3600	56HC	48	PDF
191560.00	\$;0054d!:									48	PDF
191491.00	\$;0054do:	2	1800					145TC	57	PDF	
191563.00	\$;0054dn:							56HC	53	PDF	
191490.00	\$;0054d,::		3600					145TC	47	PDF	
191562.00	\$;0054d?:							56HC	49	PDF	
C-Face without Base											
191202.00	\$054dp:	1/3	1800	208–230/460 VAC	1.15	TENV	B	56C	30	PDF	
191205.00	\$054dx:	1/2							33	PDF	
191208.00	\$054dy:	3/4							38	PDF	
191564.00	\$054dz:	1				TEFC		56C	67	PDF	
191565.00	\$;0054d]:	2							143TC	44	PDF
191569.00	\$;0054d[:								56C	47	PDF
191570.00	\$;0054d_:								145TC	67	PDF



SST Washguard - 3-phase Motors

Performance Data - 3-Phase														
Part Number	HP	F.L. RPM	Current @ 230V/460V (Amps)			Torque (lb-ft)			Torque Speed Rating		F.L. Effic. %	F.L. Power Factor	Resistance Main	
			No Load 460V	Full Load 230/460V	Locked Rotor	Full Load	Locked Rotor	Break-down	Constant	Variable				
C-Face with Base														
<u>191204.00</u>	1/2	1740	0.8	1.5-1.6/0.80	6	1.50	4.41	5.56	1000:1	10:1	81.5	68	29	
<u>191207.00</u>	3/4	1740	0.7	2.4-2.3/1.2	9.3	2.25	7.25	10.19	1000:1	10:1	82.5	73	17.8	
<u>191206.00</u>		3450	0.45	2.2-2.0/1.0	6.9	1.14	2.68	3.25	1000:1	10:1	78.5	86	5.67	
<u>191487.00</u>	1	1750	1	3.2-3.0/1.5	15.1	2.99	13.20	15.80	10:1	10:1	85.5	71.5	0	
<u>191561.00</u>	1 1/2	1750	1.3	4.8-4.4/2.2	19.9	4.51	18.10	21.05	10:1	10:1	86.5	73.5	0	
<u>191560.00</u>		3510	0.8	4.2-3.8/1.9	21.1	2.24	8.83	9.81	10:1	10:1	84	88	0	
<u>191491.00</u>	2	1750	1.4	5.8-5.4/2.7	23.4	6.00	17.40	25.40	10:1	10:1	86.5	80	0	
<u>191563.00</u>		1750	1.4	5.8-5.4/2.7	23.4	6.00	17.40	25.40	10:1	10:1	86.5	80	0	
<u>191490.00</u>		3490	0.9	5.3-5.0/2.5	25.4	3.00	10.70	11.80	10:1	10:1	85.5	87.5	0	
<u>191562.00</u>		3450	0.9	5.3-5.0/2.5	25.4	3.00	10.70	11.80	10:1	10:1	85.5	87.5	0	
C-Face without Base														
<u>191202.00</u>		1/3	1740	0.45	1.2-1.3/0.65	4.5	1.00	3.50	4.50	1000:1	10:1	78.5	63	9.63
<u>191205.00</u>	1/2	1740	0.6	1.5-1.6/0.80	6	1.50	4.41	5.56	1000:1	10:1	81.5	68	29	
<u>191208.00</u>	3/4	1740	0.7	2.4-2.3/1.2	9.3	2.25	7.25	13.58	1000:1	10:1	82.5	73	17.8	
<u>191564.00</u>	1	1750	1	3.2-3.0/1.5	15.1	2.99	13.20	15.80	10:1	10:1	85.5	71.5	0	
<u>191565.00</u>		1750	1	3.2-3.0/1.5	15.1	2.99	13.20	15.80	10:1	10:1	85.5	71.5	0	
<u>191569.00</u>	2	1750	1.4	5.8-5.4/2.7	23.4	6.00	17.40	25.40	10:1	10:1	86.5	80	0	
<u>191570.00</u>		1750	1.4	5.8-5.4/2.7	23.4	6.00	17.40	25.40	10:1	10:1	86.5	80	0	

* Rotor Inertia Data (lb-ft²) not available from manufacturer

Leeson® Washguard® Motors Chemical Resistance Comparison

When choosing a Leeson Washguard(Trademark) SST Stainless Steel or White Duck White Epoxy motor, utilize the following chemical comparison chart to determine which may best fit your application.

CHEMICAL RESISTANCE COMPARISON			
CHEMICAL NAME	% CONCENTRATION	WHITE EPOXY	STAINLESS STEEL
<i>Continuous Exposure</i>			
Fresh Water	100	Excellent	Excellent
Salt Water	5	Excellent	Excellent
Salt Brine	Dilute	Fair	Good
Ammonium Hydroxide	Dilute	Good	Excellent
Citric Acid	10	Good	Excellent
Ethylene Glycol	100	Excellent	Excellent
Mineral Spirits	100	Excellent	Excellent
Sodium Hydroxide	5	Fair	Excellent
Sodium Hydroxide	20	Fair	Excellent
Sodium Hydroxide	50	Excellent	Excellent
Toluene	100	Fair	Fair
Animal Fats	NA	Excellent	Excellent
Mineral Oils	NA	Excellent	Excellent
Vegetable Oils	NA	Excellent	Excellent
Cutting Oils	NA	Excellent	Excellent
Detergents	NA	Excellent	Excellent
Gasoline	NA	Fair	Fair
Hydraulic Fluid	NA	Excellent	Excellent
Lubricating Oils	NA	Excellent	Excellent
General Weathering	NA	Fair	Excellent
Mold/Mildew	NA	Excellent	Excellent
Light Abrasion	NA	Excellent	Excellent
Heavy Abrasion	NA	Fair	Excellent
<i>Intermittent Exposure</i>			
Calcium Hydroxide (Lime)	100	Good	Excellent
Hydrochloric Acid	37	Good	Poor
Lactic Acid	Dilute	Excellent	Excellent
Lactic Acid	100	Fair	Fair
Potassium Hydroxide	50	Fair	Fair
Sodium Hypochlorite (Bleach)	15	Excellent	Excellent
Sulfuric Acid	10	Fair	Fair



Or...



Regal AC Motor Selection - Washdown & General Purpose 3-Phase Motors

Regal 3-phase General Purpose & Washdown Motor Selection						
Manuf / Application	Leeson® Washdown		Marathon® General Purpose			
Series	SST Duck	White Duck	Jet Pump	NEMA Premium® XRI®	4-in-1 XRI	Globetrotter
Electrical Characteristics						
HP range	1/3 - 2	1/4 - 10	1/3 - 2	1 - 10	1/3 - 3/4	3-200
Base speed (# poles)	1800 (4) and 3600 (2)		3600 (2)	1200(6), 1800(4), 3600(2)	1800 (4) and 3600 (2)	1800 (4)
Standard voltage	208-230/460	208-230/460 & 230/460V	208-230/460 (J063A/65A is 230/460 only)	208-230/460	208-230 / 460 and 575	208-230/460 & 230/460V ***
Ph/Base frequency (Hz)	3 / 60					
Service factor	1.15	1.15 & 1.25 ***	1.75-1.15 Line 1.0 Drive	1.15 (line) ; 1.0 (drive)	1.15	1.15
Design code (NEMA)	A & B	B	B	A (E2001A) B (all others)	B	A or B***
Insulation class	F	F	B	F	F3	F
Insulation system	IRIS	IRIS	Max Guard	CR200 magnet wire		
Duty cycle	Continuous					
Thermal protection	None	Some Models	None			
Mechanical Characteristics						
Frame size (mounting)	56C(HC)-143TC- 145TC	56(C,HC), 145T(TC), 182T(TC), 184T(TC), 213T(TC); 215T(TC)	56J(HJ)	56C - 215TC	56C	182T - 447T
Enclosure	TENV and TEFC		TEFC and DP	TEFC	TENV and TEFC	Drip Proof and TEFC
Frame material	Stainless Steel	Rolled Steel			Rolled Steel	Rolled Steel or Cast-iron***
End bracket material	Stainless Steel	Steel	Cast Aluminum, Steel	Aluminum	Cast Aluminum	Steel
Conduit box material	Stainless Steel	Steel			Steel	Steel
Fan guard material	Stainless Steel	Propolyene	Steel	Plastic	Polypropylene	Rolled Steel or Cast-iron***
Fan material	Polypropylene	Composite	Plastic	Polypropylene	Polypropylene	Polypropylene
Lead termination	Conduit Box				Conduit box except Terminal block (<1/2 hp)	Conduit box
Standard mounting	C-Face with and w/o Base ***		C-Face with Rigid Base		C-Face with Removable Base	
Drive end shaft slinger	-	-	No	Yes	No	-
Paint	N/A	White Epoxy	N/A	Blue enamel	Gray powder	Black powder- coat, Black enamel
Bearings	Ball			Ball (C3 fit)	Ball	Ball
Grease	Exxon Polyrex EM					
Standard conduit box assy. position	F1 only & F1/F2 capable***		F1	F3	F1 & NPO	F1, F2 reversible***
Performance Characteristics						
Constant torque speed range	10:1 TEFC 1000:1 TENV		10:1	10:1	10:1 (TEFC) 1000:1 (TENV)	10:1
Variable torque speed range	10:1		10:1	10:1	—	10:1
Constant HP speed range	2.1	2.1	2:1	2:1	2:1	2:1
Temperature rise	F	F	B	F	F	F
Encoder provisions	No	No	No	No	No	No
Other Characteristics						
Warranty *	12 months from installation, 18 months from purchase. (through Rexnord Regal)			3 years	3 years	3 years
Agency listings **	UL Recoognized, CSA Certified, CE Mark++					

* See Terms and Conditions for motor warranty explanation. Marathon warranty service can be arranged through Rexnord Regal service centers. See list of service centers on our website at www.automationdirect.com.

** To obtain the most current agency approval information, see the Agency Approval Checklist on the specific part number's web page.

***Varies by Model