

WASHGUARD® MOTORS NOW AVAILABLE IN FOUR STYLES



**WASHGUARD®
ALL-STAINLESS**



**STAINLESS
STEELDUCK**

Maximum service in critically clean or corrosive environments

- All exterior components of stainless steel
- Endshields o-ring sealed to frame
- IEEE 841 severe-duty features standard
- Meets demanding pharmaceutical requirements, also excellent for chemical-processing applications
- Incorporates all WASHGUARD® mechanical and electrical features, plus IRIS™ insulation system
- IRIS™ insulation system
- BISSC certified for baking industry



**WASHGUARD® SST
ALL-STAINLESS**



SST DUCK

Stainless Steel Tough for demanding washdown applications

- All exterior components of 300 series stainless steel, including motor frame, endshield and conduit box castings
- Moisture resistant sealant between frame and endbells
- Full-fact nameplate is laser-etched on the motor frame
- Built to withstand the demanding washdown environments found in the food processing, chemical processing and beverage industries
- No paint or coatings of any type are used on the exterior of the motor
- Four locations for T-drains provided on each endshield
- IRIS™ insulation system

Catalog listings on page 211



**WASHGUARD® II
STAINLESS FRAME**



**Super
Duck**

Superior, extended life in severe environments

- Paint-free exterior—stainless frame and conduit box lid, specially processed endshields and conduit box housing
- Etched stainless steel nameplate
- Proven WASHGUARD® mechanical and electrical features
- IRIS™ insulation system
- BISSC certified for baking industry



**WASHGUARD®
WHITE EPOXY**



**White
Duck**

Enhanced performance in wet, humid areas

- Our original moisture-shedding “duck” motor
- Durable RUST-OLEUM® white epoxy coating
- Stainless steel shaft, conduit box cover, nameplate, fan guard
- Special gaskets, slingers and seals
- Four endshield drains
- Moisture-resistant interior components
- IRIS™ insulation system
- Single-phase, three-phase and DC SCR models



PROTECTED
WITH
RUST-OLEUM®
COATINGS

WASHGUARD® MOTORS ARE BUILT TO HANDLE HIGH-PRESSURE WASHDOWNS!*

Stainless-steel fan guard (48-145T frames) or heavy-duty epoxy-coated fan guard (182T-215T frames).

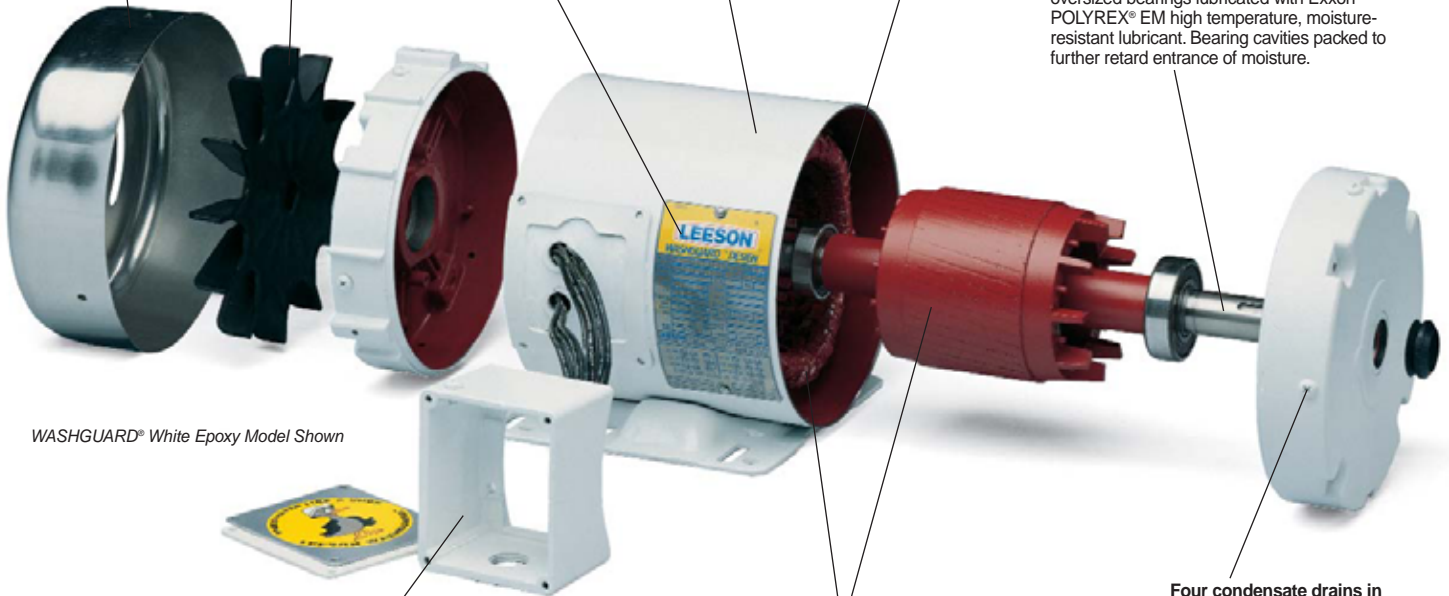
Composite fan is chemically-inert and static-free. Fan is positively positioned on shaft. On TEFC designs only.

USDA-approved, white epoxy finish for superior protection and resistance to caustic cleaning solutions.

Encapsulated starting switch (single-phase WASHGUARD® motors) uses a patented, field-proven design that is immune to moisture, shock and vibration. No moving parts or exposed contacts to become corroded or inoperable.

Stainless-steel, "full-fact" nameplate includes information on motor efficiency and connections. Readable even after repeated washdowns.

Moisture-resistant shaft system includes 303 stainless-steel shaft and lubricated, spring-loaded contact seals in each endshield. Patented V-ring Forsheda seal on shaft end to deflect water (see inset). Double-sealed, oversized bearings lubricated with Exxon POLYREX® EM high temperature, moisture-resistant lubricant. Bearing cavities packed to further retard entrance of moisture.



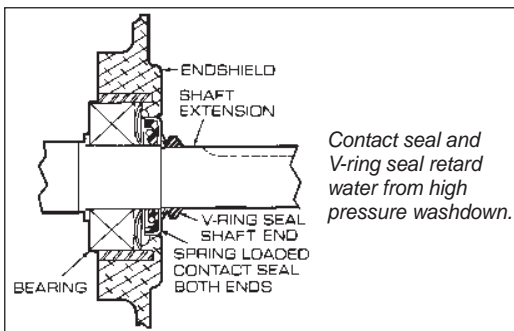
WASHGUARD® White Epoxy Model Shown

Cast, oversized conduit box with tough, high-temperature nitrile gaskets and stainless-steel cover and hardware. Oversized design with threaded entrance. All machined fits are sealed and nylon gaskets are used under bolt heads.

Interior coatings protect against moisture and corrosion. Frame, base, endshields, rotor, and interior components are protected by enamel and polyester compounds of outstanding adhesion and resistance to moisture, acids, alkalis, and oils. Efficiencies meet EPACT mandates for covered motors when tested without shaft seals. High temperature, moisture resistant IRIS insulation system assures long life on inverter service. Windings are immersed and cured in polyester insulating compound.



Four condensate drains in each endshield (at three, six, nine, and twelve o'clock) purge condensate and water which may enter the motor.



* Also excellent for applications requiring a motor that is "tropicalized"!

QUICK REFERENCE

WASHGUARD® WHITE EPOXY Page 28
 WASHGUARD® STAINLESS FRAME 30
 WASHGUARD® ALL-STAINLESS 31



WASHGUARD® MOTORS

WHITE EPOXY • SINGLE PHASE & DC



**WASHGUARD® MOTORS
SHED WATER LIKE A DUCK!**

SINGLE PHASE • TEFC • RIGID BASE

Featuring Electronic Solid State Encapsulated Switch

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/2	1725	56	112431	\$345	A	24	115/208-230	None	4.4	10.81
3/4	1725	56	112432	404	A	31	115/208-230	None	5.4	11.31
1	1725	56	112626	462	A	33	115/208-230	None	6.4	11.81
	1740	143T	120589	462	B	34	115/208-230	None	6.4	12.25
1 1/2	1740	145T	120590	589	B	47	115/208-230	None	9.5	13.75
2	1740	182T	131571	856	B	60	115/208-230	None	12.6	13.46



**PROTECTED
WITH
RUST-OLEUM®
COATINGS**

SINGLE PHASE • TEFC • C FACE LESS BASE

Featuring Electronic Solid State Encapsulated Switch

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	3450	56C	114310	\$336	A	25	115/208-230	None	2.6	10.69
	1725	56C	114311	342	A	27	115/208-230	None	3.2	10.69
1/2	3450	56C	114312	342	A	25	115/208-230	None	3.6	10.69
	1725	56C	114313	350	A	29	115/208-230	None	4.4	11.19
3/4	3450	56C	114314	345	A	31	115/208-230	None	5.0	11.69
	1725	56C	114315	406	A	31	115/208-230	None	5.4	11.69
1	3450	56C	114316	347	A	29	115/208-230	None	6.0	12.19
	1725	56C	114317	460	A	34	115/208-230	None	6.4	12.19
1 1/2	3450	56C	114318	510	A	36	115/208-230	None	8.5	12.69
	1725	56C	114319	589	A	43	115/208-230	None	9.5	13.69

SINGLE PHASE • TEFC • C FACE WITH BASE

Featuring Electronic Solid State Encapsulated Switch

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	3450	56C	113580	\$339	A	27	115/208-230	None	2.6	10.69
	1725	56C	112526	345	A	28	115/208-230	None	3.2	10.69
1/2	3450	56C	113581	345	A	25	115/208-230	None	3.6	10.69
	1725	56C	112527	356	A	28	115/208-230	None	4.4	11.19
3/4	3450	56C	113582	348	A	31	115/208-230	None	5.0	11.69
	1725	56C	112528	403	A	30	115/208-230	None	5.4	11.69
1	3450	56C	113583	349	A	31	115/208-230	None	6.0	12.19
	1725	56C	112529	464	A	33	115/208-230	None	6.4	12.19
1 1/2	3450	56C	113584	511	A	36	115/208-230	None	8.5	12.69
	1725	56HC	113300	592	A	45	115/208-230	None	9.5	13.69
2	3450	56HC	114637	589	A	43	115/208-230	None	10.0	13.69

Catalog numbers in blue are NEW items.
WASHGUARD® Brakemotors on page 37.



DC • SCR RATED 90 & 180 VOLTS

TENV • C FACE WITH REMOVABLE BASE

HP	Full Load RPM	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Arm. Volts DC	Control Volts AC	F.L. Amps DC	"C" Dim. (Inches)
1/4	1750	S56C	108423	\$480	A	23	90	115	2.7	10.69
1/3	1750	S56C	108424	507	A	26	90	115	3.5	11.69
1/2	1750	S56C	108226	568	A	38	90	115	4.9	13.69
	1750	S56C	108227	568	A	43	180	230	2.4	13.69
3/4	1750	S56C	108228	688	A	53	90	115	7.0	15.69
	1750	S56C	108229	688	A	50	180	230	3.5	15.69
1	1750	S56C	108230**	841	A	45	90	115	10.0	15.81
	1750	S56C	108231**	841	A	42	180	230	5.0	14.81
1 1/2	1750	S56C	108232**	1073	A	50	180	230	7.6	15.81

** These motors are totally enclosed fan cooled.



THREE PHASE • TENV • JM PUMP

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1	1725	143JM	121579	\$596	B	37	208-230/460	3.1	82.5	15.75
	1725	143JM	121580	642	B	46	208-230/460	4.0	82.5	15.75
1 1/2	1725	145JM	121581	660	B	53	208-230/460	4.4	84.0	15.75
	1725	145JM	121582	727	B	47	208-230/460	5.2	84.0	15.75
2	1725	145JM	121583	681	B	49	208-230/460	6.0	84.0	16.75
	1725	145JM	121584	781	B	45	208-230/460	7.6	85.5	16.25
3	1760	182JM	131967	866	B	79	208-230/460	8.2	87.5	16.13
	1760	184JM	131968	1034	B	78	208-230/460	12.0	87.5	16.13
5	1760	184JM	131969	938	B	81	208-230/460	13.0	87.5	16.63
	1760	184JM	131970	1134	B	110	208-230/460	16.8	88.5	17.63
7 1/2	1740	213JM	140733	1265	B	133	208-230/460	20.4	89.5	19.00
	1740	215JM	140734	1558	B	127	208-230/460	24.0	89.5	21.70
10	1740	215JM	140735	1472	B	142	208-230/460	26.0	89.5	20.00
	1740	215JM	140736	1782	B	142	208-230/460	18.0	90.2	21.70

WASHGUARD® COUPLER BRAKES

WASHGUARD® coupler brakes have the same features as the coupler brakes described on page 38 and have special provisions for use with LEESON WASHGUARD® Motors. These brakes should be selected for areas subjected to high pressure washdown or applications having a high moisture environment. Food-safe white epoxy finish. BISSC Certified.



For Both Single and Three Phase Motors

Cat. No. Single Phase	Cat. No. Three Phase	Cat. No. Three Phase	Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	List Price	Disc. Sym.	App. Wt. (lbs.)
175133	175972	175175	3	1	56C	5/8", 56C	\$587	A	13
175134	175973	175176	6	2	56C/143-5TC	5/8", 56C	633	A	14



THREE PHASE • TENV and TEFC C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4	1725	56C	113649 ●	\$329	A	19	208-230/460	1.1	68.0	9.56
1/3	1725	56C	113954 ●	349	A	19	208-230/460	1.3	72.0	9.56
1/2	1725	56C	113473 ●	360	A	22	208-230/460	1.8	78.5	10.06
3/4	3450	56C	113022 ●	364	A	23	208-230/460	2.4	75.5	10.06
	1725	56C	113019 ●	417	A	28	208-230/460	2.5	80.0	10.56
1	3450	56C	113023 ●	425	A	35	208-230/460	2.6	78.5	11.56
	1725	56C	113020 ●	435	A	32	208-230/460	3.2	80.0	11.56
	1725	143TC	120760 ●	435	B	35	208-230/460	3.2	80.0	11.75
1 1/2	3450	56C	113024 ●	450	A	42	208-230/460	3.8	80.0	12.56
	1725	56C	113021 ●	454	A	44	208-230/460	4.2	84.0	13.06
	1725	145TC	120761 ●	454	B	47	208-230/460	4.2	84.0	13.25
2	3450	56C	113593 ●	516	A	47	208-230/460	5.0	82.5	13.06
	3450	145TC	121040 ●	516	B	45	208-230/460	5.0	82.5	13.25
	1725	56C	114616	528	A	48	208-230/460	6.2	81.5	12.69
1725	145TC	120762	528	B	39	208-230/460	6.2	81.5	12.75	
3	3450	56C	115976	629	A	39	208-230/460	8.0	80.0	12.93
	3450	145TC	120987	629	B	39	208-230/460	8.0	80.0	13.25
	1740	182TC	131596	692	B	61	208-230/460	9.0	82.5	14.47
5	3450	184TC	131595	878	B	72	208-230/460	12.4	85.5	14.47
	1740	184TC	131597	784	B	72	208-230/460	13.2	82.5	14.47
7 1/2	3450	S213TC	131594	1089	B	85	208-230/460	18.4	86.5	15.47
	1750	213TC	140467 †	996	B	139	208-230/460	20.4	89.5	17.71
10	3450	215TC	140737	1327	B	124	208-230/460	24.0	89.5	20.57
	1750	215TC	140465 †	1131	B	180	208-230/460	26.0	89.5	18.71
15	3450	215TC	140738	1651	B	139	208-230/460	36.0	90.2	20.57

THREE PHASE • TEFC • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	1725	56	112427	\$353	A	24	208-230/460	2.0	74.0	10.81
3/4	1725	56	112428	370	A	27	208-230/460	2.8	77.0	10.81
1	1725	56	112627	388	A	26	208-230/460	3.8	77.0	11.31
	1725	143T	G120585	423	B	35	208-230/460	3.1	82.5	12.75
1 1/2	1725	145T	G120588	425	B	51	208-230/460	4.4	84.0	12.75
2	1725	145T	G120586	528	B	46	208-230/460	6.0	84.0	14.25
3	1740	56HZ	115751 ■	528	A	45	208-230/460	8.6	82.5	14.25
	1760	182T	G130662	699	B	69	208-230/460	8.2	87.5	13.96
5	3450	184T	G131775	798	B	75	208-230/460	12.0	87.5	14.46
	1760	184T	G130663	798	B	85	208-230/460	13.0	87.5	14.96
7 1/2	3450	184T	G131776	997	B	87	208-230/460	16.8	88.5	15.96
	3450	S213T	G131911	997	B	87	208-230/460	16.8	88.5	16.59
	1740	213T	G140280	997	B	131	208-230/460	20.4	89.5	17.71
10	1740	215T	G140281	1193	B	165	208-230/460	26.0	89.5	18.71

- Combination 56HZ base has mounting holes for NEMA 56 and 143-5T and a standard NEMA 145T frame shaft of 7/8" diameter.
- These motors are totally enclosed, non ventilated—Others are fan cooled.
- † Class F insulated.
- ♣ These totally enclosed three phase motors have 1.0 service factors.
- Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

THREE PHASE • TENV and TEFC C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4	1725	56C	112523	\$331	A	21	208-230/460	1.1	67.0	10.69
1/3	1725	56C	112547	363	A	22	208-230/460	1.7	68.0	10.69
1/2	3450	56C	113588 ●	330	A	26	208-230/460	1.5	76.0	10.56
	1725	56C	113586 ●	370	A	23	208-230/460	1.8	78.5	10.06
	1725	56C	112429 †	370	A	22	208-230/460	2.0	74.0	11.19
1140	56C	115743 ●	461	A	24	208-230/460	2.3	77.0	11.56	
3/4	3450	56C	113589 ●	362	A	24	208-230/460	2.4	75.5	10.08
	1725	56C	113587 ●	428	A	30	208-230/460	2.5	80.0	10.56
	1725	56C	112430	428	A	26	208-230/460	2.8	77.0	11.19
1140	56HC	115744 ●□	502	A	25	208-230/460	3.0	78.5	13.06	
1	3450	56C	113590 ●	423	A	34	208-230/460	2.6	78.5	11.56
	1725	56C	112524	446	A	27	208-230/460	3.8	77.0	11.69
	1725	143TC	G120587	446	B	35	208-230/460	3.1	82.5	13.25
1140	56HC	115745 □	538	A	35	208-230/460	4.0	77.0	13.08	
1 1/2	3450	56C	113591 ●	468	A	44	208-230/460	3.8	80.0	12.75
	1725	145TC	G121540	465	B	51	208-230/460	4.4	84.0	13.25
	1725	56C	112643	465	A	32	208-230/460	5.0	78.5	12.19
1140	56HC	115746 □	568	A	31	208-230/460	5.7	77.0	14.18	
2	3450	56HC	113592 ●♣	519	A	48	208-230/460	5.0	82.5	13.06
	3450	145TC	121039 ●	519	B	41	208-230/460	5.0	82.5	13.25
	1725	56C	112644	534	A	36	208-230/460	6.2	81.5	12.69
1725	145TC	G120588	576	B	47	208-230/460	6.0	84.0	14.25	
3	3450	145TC	G120911	679	B	43	208-230/460	7.4	85.5	13.75
	1760	182TC	G130664	757	B	77	208-230/460	8.2	87.5	14.47
	3450	184TC	G131167	948	B	76	208-230/460	12.0	87.5	14.47
1760	184TC	G131171	856	B	79	208-230/460	13.0	87.5	14.97	
7 1/2	3450	S213TC	G131165	1177	B	108	208-230/460	16.8	88.5	17.47
	1740	213TC	G140466	1085	B	131	208-230/460	20.4	89.5	17.71
	10	3450	215TC	G140700	1397	B	125	208-230/460	24.0	89.5
1740	215TC	G140464	1234	B	140	208-230/460	26.0	89.5	18.71	
15	3450	215TC	G140701	1721	B	140	208-230/460	36.0	90.2	20.57



THREE PHASE • 575 VOLTS TEFC • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4	1725	56C	112520	\$331	A	24	575	0.44	68.0	10.69
1/3	1725	56C	112521	343	A	22	575	0.68	68.0	10.69
1/2	1725	56C	112483	370	A	28	575	0.8	74.0	10.69
3/4	1725	56C	112484	428	A	24	575	1.12	77.0	11.19
1	1725	56C	112522	446	A	30	575	1.5	77.0	11.69

LEESON® WASHGUARD® II MOTORS

STAINLESS FRAME • THREE PHASE

Super Duck



LEESON Severe Duty, stainless frame, WASHGUARD® II motors are designed for superior extended service in severe environments. Typical applications include food processing areas requiring frequent sanitation procedures using high pressure cleaning with concentrated caustic solutions, areas of high humidity and in chemical environments.

Mechanical Protection Features
These motors have an *entirely paint free exterior* with 300 series stainless steel motor body, conduit box lid, shaft extension, hardware, fasteners and an etched motor data plate.

To enhance chemical and corrosion resistance, all surfaces of the endbells and conduit box are processed using a U.S. Department of Agriculture approved technique. This proprietary process has been tested and qualified for more than 2,500 hours of salt spray endurance for external surfaces, and

1,000 hours for internal surfaces. This process has proven successful in food washdown applications and has shown excellent corrosion resistance.

Shaft seals, slingers and one-way stainless steel drains retard entrance of contaminants and water into the motor. Multiple, repositional drains provided for all angle mounting, release any water that does enter the motor from hose downs or condensation. Chemically resistant, tough nitrile gaskets and a threaded entrance for power connection also restrict entrance to the motor's interior. Nylon gaskets are used to seal bolt heads.

Bearings used are double sealed and prelubricated with moisture resistant Exxon POLYREX® EM high temperature lubricant.

Electrical Performance and Protection Features

Efficiencies meet EPACT mandates for *covered* motors when tested without shaft seals. High temperature, moisture resistant IRIS insulation system assures long life on inverter service. Windings are immersed and cured in polyester insulating compound.

Standards and Approvals

UL component recognized, file number E57948, guide number PRGY2. Energy efficiency ratings are verified by an independent testing laboratory.

CSA Energy Efficiency Verification Program, report number EEV 78720-1. Construction is CSA Certified for safety report number LR33543.

WASHGUARD® II motors are certified to the Baking Industry Sanitation Standard #29 and listed under BISSC authorization number 769.



STAINLESS FRAME • TENV > • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL. Amps 230V	% FL. Eff.	"C" Dim. (Inches)
1/2	1725	56C	114394	\$434	A	30	208-230/460	1.6	78.5	11.06
3/4	1725	56C	114395	502	A	34	208-230/460	2.3	80.0	11.56
1	1725	56C	114437	520	A	44	208-230/460	3.0	81.5	12.06
	1725	143TC	121109	520	B	40	208-230/460	3.0	81.5	12.13
1 1/2	1725	56C	114581 >	545	A	45	208-230/460	4.4	84.0	12.69
	1725	145TC	121350 >	545	B	40	208-230/460	4.4	84.0	12.75
2	1725	56C	114582 >	621	A	51	208-230/460	6.0	84.0	14.19
	1725	145TC	121351 >	621	B	51	208-230/460	6.0	84.0	14.25

> All ratings TENV except 1 1/2 & 2 HP, which is TEFC with stainless steel fan cover and chemically inert fan.



STAINLESS FRAME • TENV > • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL. Amps 230V	% FL. Eff.	"C" Dim. (Inches)
1/2	1725	56C	114560	\$437	A	34	208-230/460	1.6	78.5	11.56
3/4	1725	56C	114561	506	A	38	208-230/460	2.3	80.0	12.06
1	1725	56C	114562	525	A	45	208-230/460	2.3	81.5	12.06
	1725	143TC	121165	525	B	45	208-230/460	2.3	81.5	12.13
1 1/2	1725	145TC	G121166 >	549	B	42	208-230/460	4.4	84.0	13.25
2	1725	145TC	G121167 >	644	B	51	208-230/460	6.0	84.0	13.25

> All ratings TENV except 1 1/2 & 2 HP, which is TEFC with stainless steel fan cover and chemically inert fan.

CHEMICAL RESISTANCE RATING CHART

CHEMICAL	CONCENTRATION	COMPONENT-RESISTANCE	
		STAINLESS STEEL PARTS	ENDBELLS & CONDUIT BOX
WATER:			
De-Ionized Boiling	100%	Excellent	Excellent
Salt (Immersed)	30%	Excellent	Excellent
Salt (Spray)	5%	Excellent	Excellent
Tap - 250°F/120°C @ 10,000 PSI	100%	Excellent	Excellent
ACIDS:			
Hydrochloric	35%	Poor	Very Good
Sulfuric	25%	Poor	Excellent
Nitric	35%	Excellent	Good
Picric	Saturated Solution	Excellent	Very Good
BASE:			
Caustic	100%	Excellent	Excellent
Caustic	12.5 pH	Excellent	Excellent
Caustic - 125°F/50°C	9.5 pH	Excellent	Excellent
SOLVENTS:			
	--	Excellent	Excellent



Catalog numbers in green are EPACT motors.

PREMIUM STAINLESS STEEL DUCK



For maximum service in the most critically clean or corrosive environments, nothing beats LEESON's new Premium WASHGUARD® All-Stainless Motors.

Specifically designed to meet the demanding sanitation requirements of the pharmaceutical and food processing industries, these motors are also ideal in severe chemical-processing applications involving nitric acid and caustic lye. In fact, WASHGUARD® All-Stainless Motors include IEEE 841 severe-duty features right out of the box!

Mechanical Protection Features:

Exterior components are entirely of 300 series stainless steel, including frame, base, endshields, conduit box, box cover and hardware. Plus, the full-face etched stainless steel nameplate is blind riveted to the conduit box eliminating rivet holes in the frame as a source of entry for moisture. Nothing on the motor's exterior is painted or coated in any way.

Endshields are o-ring sealed to the frame. Double-lip shaft seals, o-rings, and gaskets are made from chemically resistant Viton® material. Hydrophobic breathers in the opposite shaft endbell and conduit box equalize pressure without allowing moisture to enter the motor. Double-sealed bearings are pre-lubricated with moisture-resistant high-temperature grease.

Electrical Performance and Protection Features

WASHGUARD® efficiencies meet EPACT mandates for non-exempt motors when tested without shaft seals. For extra moisture resistance, windings are immersed and cured in polyester insulating compound. And LEESON's exclusive IRIS™ Inverter-Rated Insulation System provides extra protection and long life, especially in inverter-driven applications.

Standards and Approvals

UL component recognized, file number E57948, guide number PRGY2. Energy efficiency ratings are verified by an independent testing laboratory.

CSA Energy Efficiency Verification Program, report number EEV 78720-1.

Construction is CSA Certified for safety report number LR33543 and listed under BISSC authorization number 769.



CHEMICAL RESISTANCE RATING CHART

CHEMICAL	CONCENTRATION	ALL STAINLESS COMPONENTS
WATER:		
De-Ionized Boiling	100%	Excellent
Salt (Immersed)	30%	Excellent
Salt (Spray)	5%	Excellent
Tap - 250°F/120°C @ 10,000 PSI	100%	Excellent
ACIDS:		
Hydrochloric	35%	Poor
Sulfuric	25%	Poor
Nitric	35%	Excellent
Picric	Saturated Solution	Excellent
BASE:		
Caustic	100%	Excellent
Caustic	12.5 pH	Excellent
Caustic - 125°F/50°C	9.5 pH	Excellent
SOLVENTS:	--	Excellent

ALL-STAINLESS • TENV/TEFC • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/2	3450	56C	116165●	\$688	A	32	208-230/460	1.5	76.0	10.71
	1750	56C	115633●	738	A	32	208-230/460	1.6	78.5	11.21
	1140	56HC	116297●	920	A	35	208-230/460	2.3	77.0	11.21
3/4	3450	56C	116167●	712	A	37	208-230/460	2.4	77.0	11.21
	1750	56C	115634●	765	A	38	208-230/460	2.3	80.0	11.71
	1140	56HC	116298●	950	A	50	208-230/460	3.0	78.5	12.72
1	3450	56C	116169●	779	A	40	208-230/460	2.6	78.5	11.71
	1750	56C	115635●	784	A	39	208-230/460	3.0	81.5	12.21
	1750	143TC	121419●	784	B	50	208-230/460	3.0	81.5	12.28
	1140	56HC	116299	974	B	41	208-230/460	4.0	77.0	13.13
1 1/2	3450	143TC	G121524	790	B	45	208-230/460	4.0	82.5	13.69
	1750	56C	116450	802	B	46	208-230/460	4.4	84.0	13.63
	1750	145TC	G121420	802	B	46	208-230/460	4.4	84.0	13.69
2	1140	56HC	116300	1013	B	51	208-230/460	5.4	80.0	14.13
	3450	145TC	G121526	964	B	49	208-230/460	5.0	84.0	13.69
	1750	56C	116451	974	B	47	208-230/460	6.0	84.0	14.13
3	1750	145TC	G121421	974	B	47	208-230/460	6.0	84.0	14.19
	3450	145TC	G121528	1160	B	50	208-230/460	7.4	85.5	13.69
5	1750	182TC	G131900	1170	B	70	208-230/460	8.2	87.5	14.87
	3450	184TC	G131901	1325	B	80	208-230/460	12.0	87.5	14.87
7 1/2	1750	184TC	G131902	1334	B	80	208-230/460	13.0	87.5	15.37
	3450	213TC	G140698	1584	B	150	208-230/460	18.4	88.5	18.69
10	1750	213TC	G140675	1616	B	153	208-230/460	20.4	89.5	18.69
	3450	215TC	G140699	1784	B	165	208-230/460	24.0	89.5	18.69
	1750	215TC	G140676	1811	B	170	208-230/460	26.0	89.5	18.69

● These motors are totally enclosed, non-ventilated—Others are fan cooled.

ALL-STAINLESS • TENV/TEFC • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/2	3450	56C	116316●	\$676	A	32	208-230/460	1.5	76.0	10.71
	1750	56C	116166●	723	A	35	208-230/460	1.6	78.5	11.21
3/4	3450	56C	116317●	699	A	37	208-230/460	2.4	77.0	11.21
	1750	56C	116168●	745	A	39	208-230/460	2.3	80.0	11.71
1	3450	56C	116318●	766	A	40	208-230/460	2.6	78.5	11.71
	1750	56C	116170●	770	A	45	208-230/460	3.0	81.5	12.21
	1750	143TC	121523●	770	B	46	208-230/460	3.0	81.5	12.28
1 1/2	3450	143TC	121560	771	B	41	208-230/460	4.0	82.5	12.69
	1750	56C	116448	785	B	46	208-230/460	4.4	84.0	13.63
2	1750	145TC	121525	785	B	46	208-230/460	4.4	84.0	13.69
	3450	145TC	121561	945	B	49	208-230/460	5.0	84.0	13.69
	1750	56C	116449	953	B	47	208-230/460	6.0	84.0	14.13
3	1750	145TC	121527	953	B	47	208-230/460	6.0	84.0	14.19
	3450	145TC	121562	1138	B	50	208-230/460	7.4	85.5	13.69
5	1750	182TC	131923	1147	B	79	208-230/460	8.2	87.5	14.87
	3450	184TC	131949	1299	B	77	208-230/460	12.0	87.5	14.87
1750	184TC	131924	1308	B	79	208-230/460	13.0	87.5	15.37	

● These motors are totally enclosed, non-ventilated—Others are fan cooled.

Single phase motors & JM pump motors on page 212.

Catalog numbers in blue are NEW items.

Catalog numbers in green are EPACT motors.