ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Leeson C6T17NC1E* at our website: ***Click HERE***

LEESON®

WASHGUARD MOTORS

WASHDOWN SERVICE

WASHGUARD MOTORS NOW AVAILABLE IN FIVE STYLES



PREMIUM WASHGUARD ALL-STAINLESS



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
- Meets IP56 enclosure protection
- Incorporates all WASHGUARD mechanical and electrical features, plus IRIS™ insulation system
- IRIS™ insulation system
- BISSC certified for baking industry

AC motor catalog listings on page 37

DC motor catalog listings on page 89



WASHGUARD SST ALL-STAINLESS



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
- Meets IP55 enclosure protection
- Three phase motors are suitable for use on VFDs
- 10:1 ratio for constant or variable torque at 1.0 SF

Catalog listings on page 35



WASHGUARD II STAINLESS FRAME



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
- Meets IP55 enclosure protection
- Three phase motors are suitable for use on VFDs
- 10:1 ratio for constant or variable torque at 1.0 SF

Catalog listings on page 33



WASHGUARD WHITE EPOXY



Enhanced performance in wet, humid areas

PROTECTED WITH RUST-OLEUM® COATINGS

- 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
- Meets IP55 enclosure protection
- Three phase motors are suitable for use on VFDs
- 10:1 ratio for constant or variable torque at 1.0 SF

Catalog listings on pages 30-32



EXTREME DUCK

Revolutionary Designed Stainless Steel Motors are built to be the last Stainless Steel Washdown motors you will ever need!

- Meet EPACT for non-exempt when tested without shaft seals
- Total winding encapsulation using an Epoxy Resin
- LEESON's exclusive IRIS™ Inverter-Rated Insulation System
- Motors are UL component recognized
- CSA Energy Efficiency Verification
- Construction is CSA Certified for safety
- All exterior components are 300-Series stainless steel
- Protech Bearing isolator used for the output shaft seal
- Double Lip Viton shaft seal used on non-drive output shaft on TEFC motors
- Minimal exterior fasteners, no through-bolt design and screw on conduit box covers
- Pre-lubricated double-sealed bearings
- Rotor/Cartridge, "Q-CAR," for quick access to bearings
- Rigid Cast Base for rugged applications
- Full fact nameplate is laser etched
- BISSC certified for baking industry

Catalog listings on page 39

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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

Stainless-steel fan guard on all WASHGUARD frames.

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

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

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.

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.

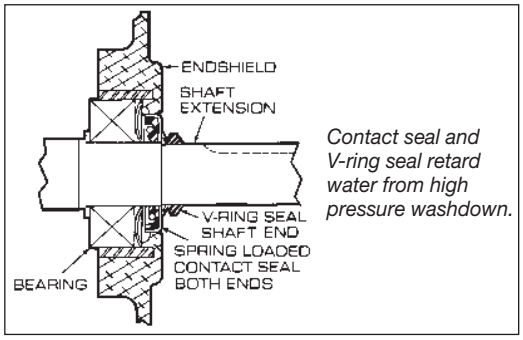


WASHGUARD White Epoxy Model Shown

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, alkalies, 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.



Contact seal and V-ring seal retard water from high pressure washdown.

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

QUICK REFERENCE

WASHGUARD WHITE EPOXY . . . . . Page 30
WASHGUARD STAINLESS FRAME 33
WASHGUARD ALL-STAINLESS 35,37,39

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

LEESON WASHGUARD MOTORS

WHITE EPOXY • SINGLE PHASE & DC



White 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**	$514	A	24	115/208-230	None	4.4	10.81
3/4	1725	56	**112432**	604	A	31	115/208-230	None	5.4	11.31
1	1725	56	**112626**	692	A	33	115/208-230	None	6.4	11.81
	1740	143T	**120589**	692	B	34	115/208-230	None	6.4	12.25
1½	1740	145T	**120590**	882	B	47	115/208-230	None	9.5	13.75
2	1740	182T	**131571**	1279	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**	$504	A	25	115/208-230	None	2.6	10.69
	1725	56C	**114311**	511	A	27	115/208-230	None	3.2	10.69
1/2	3450	56C	**114312**	511	A	25	115/208-230	None	3.6	10.69
	1725	56C	**114313**	525	A	29	115/208-230	None	4.4	11.19
3/4	3450	56C	**114314**	514	A	31	115/208-230	None	5.0	11.69
	1725	56C	**114315**	606	A	31	115/208-230	None	5.4	11.69
1	3450	56C	**114316**	517	A	29	115/208-230	None	6.0	12.19
	1725	56C	**114317**	688	A	34	115/208-230	None	6.4	12.19
1½	3450	56C	**114318**	764	A	36	115/208-230	None	8.5	12.69
	1725	56C	**114319**	882	A	43	115/208-230	None	9.5	13.69

SINGLE PHASE • TEFC • C FACE WITH BASE

Featuring Electronic Solid State Encapsulated Switch

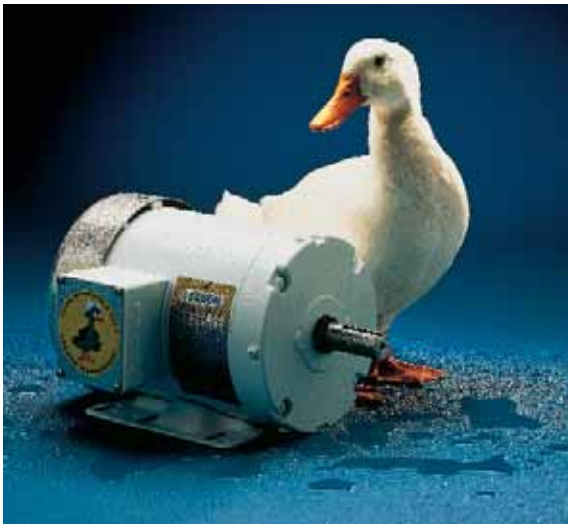
HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	3450	56C	**113580**	$507	A	27	115/208-230	None	2.6	10.69
	1725	56C	**112526**	514	A	28	115/208-230	None	3.2	10.69
1/2	3450	56C	**113581**	514	A	25	115/208-230	None	3.6	10.69
	1725	56C	**112527**	532	A	28	115/208-230	None	4.4	11.19
3/4	3450	56C	**113582**	521	A	31	115/208-230	None	5.0	11.69
	1725	56C	**112528**	603	A	30	115/208-230	None	5.4	11.69
1	3450	56C	**113583**	523	A	31	115/208-230	None	6.0	12.19
	1725	56C	**112529**	694	A	33	115/208-230	None	6.4	12.19
1½	3450	56C	**113584**	765	A	36	115/208-230	None	8.5	12.69
	1725	56HC	**113300**	886	A	45	115/208-230	None	9.5	13.69
2	3450	56HC	**114637**	882	A	43	115/208-230	None	10.0	13.69

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**	$636	A	23	90	115	2.7	10.69
	1750	S56C	**098375**	636	A	21	180	230	1.4	10.22
1/3	1750	S56C	**108424**	673	A	26	90	115	3.5	11.69
	1750	S56C	**098376**	673	A	22	180	230	1.7	10.22
1/2	1750	S56C	**108226**	754	A	38	90	115	4.9	13.69
	1750	S56C	**108227**	754	A	43	180	230	2.4	13.69
3/4	1750	S56C	**108228**	915	A	53	90	115	7.0	15.69
	1750	S56C	**108229**	915	A	50	180	230	3.5	15.69
1	1750	S56C	**108230****	1116	A	45	90	115	10.0	15.81
	1750	S56C	**108231****	1116	A	42	180	230	5.0	14.81
1½	1750	S56C	**108232****	1425	A	50	180	230	7.6	15.81

** These motors are totally enclosed fan cooled.

All Washdown Duty motors have Class F Insulation.



WASHGUARD MOTORS SHED WATER LIKE A DUCK!

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD MOTORS

WHITE EPOXY • THREE PHASE

LEESON®





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●**	$492	A	19	208-230/460	1.1	68.0	9.56
1/3	3450	56C	**116640●**	508	A	19	208-230/460	1.1	77.0	10.08
	1725	56C	**113954●**	523	A	19	208-230/460	1.3	72.0	9.56
	1725	56C	**116642**	523	A	19	208-230/460	1.7	68.0	10.69
1/2	3450	56C	**116643●**	524	A	22	208-230/460	1.6	82.5	10.06
	1725	56C	**113473●**	539	A	22	208-230/460	1.8	78.5	10.06
	1725	56C	**116644**	539	A	22	208-230/460	2.0	74.0	11.19
3/4	3450	56C	**113022●**	545	A	23	208-230/460	2.4	84.0	11.06
	1725	56C	**113019●**	624	A	28	208-230/460	2.5	80.0	10.56
	1725	56C	**116645**	624	A	28	208-230/460	2.8	77.0	11.69
1	3450	56C	**113023●**	636	A	35	208-230/460	2.6	85.5	11.56
	1725	56C	**113020●**	650	A	32	208-230/460	3.2	80.0	11.56
	1725	56C	**116646**	650	B	32	208-230/460	3.8	77.0	11.69
	1725	143TC	**120760●**	650	B	35	208-230/460	3.2	80.0	11.75
	1725	143TC	**121652**	650	A	35	208-230/460	3.8	77.0	11.75
1½	3450	56C	**113024●**	674	A	42	208-230/460	3.8	84.0	12.56
	1725	56C	**113021●**	678	A	44	208-230/460	4.2	84.0	13.06
	1725	56C	**116647**	678	A	44	208-230/460	5.0	78.5	12.69
	1725	145TC	**120761●**	678	B	47	208-230/460	4.2	84.0	13.25
	1725	145TC	**121655**	678	A	47	208-230/460	5.0	78.5	12.75
2	3450	56C	**113593●**	771	A	47	208-230/460	5.0	84.0	13.06
	3450	145TC	**121040●**	771	B	45	208-230/460	5.0	84.0	13.12
	1725	56C	**114616**	791	A	48	208-230/460	6.2	81.5	12.69
	1725	145TC	**120762**	791	B	39	208-230/460	6.2	81.5	12.75
3	3450	56C	**115976**	941	A	39	208-230/460	7.6	84.0	13.19
	3450	145TC	**120987**	941	B	39	208-230/460	7.6	84.0	13.25
	1740	182TC	**131596**	1035	B	61	208-230/460	9.0	82.5	14.47
5	3450	184TC	**131595**	1312	B	72	208-230/460	12.4	85.5	14.47
	1740	184TC	**131597**	1173	B	72	208-230/460	13.2	82.5	14.47
7½	3450	S213TC	**131594**	1626	B	85	208-230/460	18.4	86.5	15.47
	1750	213TC	**140467**	1489	B	139	208-230/460	20.4	89.5	17.71
10	3450	215TC	**140737**	1983	B	124	208-230/460	24.0	89.5	20.57
	1750	215TC	**140465**	1691	B	180	208-230/460	26.0	89.5	18.71
15	3450	215TC	**140738**	2468	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**	$529	A	24	208-230/460	2.0	74.0	10.81
3/4	1725	56	**112428**	552	A	27	208-230/460	2.8	77.0	10.81
1	1725	56	**112627**	580	A	26	208-230/460	3.8	77.0	11.31
	1725	143T	**G120585**	634	B	35	208-230/460	3.1	82.5	12.75
1½	1725	145T	**G120858**	636	B	51	208-230/460	4.4	84.0	12.75
2	1725	145T	**G120586**	791	B	46	208-230/460	5.6	84.0	13.75
3	1740	56HZ	**115751■**	810	A	45	208-230/460	8.6	82.5	14.25
	1760	182T	**G130662**	1044	B	69	208-230/460	8.2	87.5	13.96
5	3450	184T	**G131775**	1195	B	75	208-230/460	12.0	87.5	14.46
	1760	184T	**G130663**	1195	B	85	208-230/460	13.0	87.5	14.96
7½	3450	184T	**G131776**	1490	B	87	208-230/460	16.8	88.5	15.96
	3450	S213T	**G131911**	1490	B	87	208-230/460	16.8	88.5	16.59
	1740	213T	**G140280**	1490	B	131	208-230/460	20.4	89.5	17.71
10	1740	215T	**G140281**	1784	B	165	208-230/460	26.0	89.5	18.71

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**	$495	A	21	208-230/460	1.1	67.0	10.69
1/3	3450	56C	**116641●**	524	A	22	208-230/460	1.1	77.0	10.08
	1725	56C	**112547**	544	A	22	208-230/460	1.7	68.0	10.69
1/2	3450	56C	**113588●**	493	A	26	208-230/460	1.5	82.5	10.58
	1725	56C	**113586●**	552	A	23	208-230/460	1.8	78.5	10.06
	1725	56C	**112429†**	552	A	22	208-230/460	2.0	74.0	11.19
	1140	56C	**115743●**	691	A	24	208-230/460	2.3	77.0	11.56
3/4	3450	56C	**113589●**	542	A	24	208-230/460	2.4	84.0	11.08
	1725	56C	**113587●**	640	A	30	208-230/460	2.5	80.0	10.56
	1725	56C	**112430**	640	A	26	208-230/460	2.8	77.0	11.19
	1140	56HC	**115744●□**	751	A	25	208-230/460	3.0	78.5	13.06
1	3450	56C	**113590●**	634	A	34	208-230/460	2.6	85.5	11.58
	1725	56C	**112524**	667	A	27	208-230/460	3.8	77.0	11.69
	1725	143TC	**G120587**	667	B	35	208-230/460	3.1	82.5	13.25
	1140	56HC	**115745□**	804	A	35	208-230/460	4.0	77.0	13.08
1½	3450	56C	**113591●**	700	A	44	208-230/460	3.8	84.0	12.56
	1725	145TC	**G121540**	696	B	51	208-230/460	4.4	84.0	13.25
	1725	56C	**112643**	696	A	32	208-230/460	5.0	78.5	12.19
	1140	56HC	**115746□**	849	A	31	208-230/460	5.7	77.0	14.18
2	3450	56HC	**113592●♣**	777	A	48	208-230/460	5.0	84.0	13.06
	3450	145TC	**121039●**	777	B	41	208-230/460	5.0	84.0	13.12
	1725	56C	**112644**	798	A	36	208-230/460	6.2	81.5	12.69
	1725	145TC	**G120588**	861	B	47	208-230/460	5.6	84.0	13.75
3	3450	145TC	**G120911**	1016	B	43	208-230/460	7.6	85.5	13.75
	1760	182TC	**G130664**	1133	B	77	208-230/460	8.2	87.5	14.47
5	3450	184TC	**G131167**	1418	B	76	208-230/460	12.0	87.5	14.47
	1760	184TC	**G131171**	1279	B	79	208-230/460	13.0	87.5	14.97
7½	3450	184TC	**G132016**	1759	B	90	208-230/460	16.8	88.5	15.97
	3450	S213TC	**G131165**	1759	B	108	208-230/460	16.8	88.5	17.47
	1740	213TC	**G140466**	1621	B	131	208-230/460	20.4	89.5	17.71
10	3450	215TC	**G140700**	2089	B	125	208-230/460	24.0	89.5	20.57
	1740	215TC	**G140464**	1843	B	140	208-230/460	26.0	89.5	18.71
15	3450	215TC	**G140701**	2572	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**	$495	A	24	575	0.44	68.0	10.69
1/3	1725	56C	**112521**	512	A	22	575	0.68	68.0	10.69
1/2	1725	56C	**112483**	552	A	28	575	0.8	74.0	10.69
3/4	1725	56C	**112484**	640	A	24	575	1.12	77.0	11.19
1	1725	56C	**112522**	667	A	30	575	1.5	77.0	11.69

■ 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.
♣ 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.

All Washdown Duty motors have Class F Insulation.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

Catalog numbers in green are EPACT motors.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD MOTORS

WHITE EPOXY • THREE PHASE & BRAKEKITS™



THREE PHASE • TEFC • 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**	$891	B	37	208-230/460	3.1	82.5	15.75
1½	3450	143JM	**121580**	962	B	46	208-230/460	4.0	82.5	15.75
	1725	145JM	**121581**	987	B	53	208-230/460	4.4	84.0	15.75
2	3450	145JM	**121582**	1086	B	47	208-230/460	5.2	84.0	15.75
	1725	145JM	**121583**	1018	B	49	208-230/460	5.6	84.0	16.25
3	3450	145JM	**121584**	1166	B	45	208-230/460	7.6	85.5	16.25
	1760	182JM	**131967**	1295	B	79	208-230/460	8.2	87.5	16.13
5	3450	184JM	**131968**	1545	B	78	208-230/460	12.0	87.5	16.13
	1760	184JM	**131969**	1402	B	81	208-230/460	13.0	87.5	16.63
7½	3450	184JM	**131970**	1694	B	110	208-230/460	16.8	88.5	17.63
	1740	213JM	**140733**	1890	B	133	208-230/460	20.4	89.5	19.00
10	3450	215JM	**140734**	2328	B	135	208-230/460	24.0	89.5	21.70
	1740	215JM	**140735**	2200	B	142	208-230/460	26.0	89.5	20.00
15	3450	215JM	**140736**	2662	B	150	208-230/460	36.0	90.2	21.70



WASHGUARD • TENV/TEFC • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/3	1725	56C	3	**116466●**	$1087	A	40	208-230/460	1.3	72.0	14.00
1/2	1725	56C	3	**116467●**	1108	A	42	208-230/460	1.8	78.5	14.50
3/4	1725	56C	6	**116468●**	1315	A	44	208-230/460	2.5	80.0	15.00
1	1725	56C	6	**116469●**	1358	A	48	208-230/460	3.2	80.0	15.50
	1725	143TC	6	**121616●**	1358	A	49	208-230/460	3.2	80.0	16.06
1½	1725	145TC	10	**G121617**	1883	A	50	208-230/460	4.4	84.0	19.01
2	1725	145TC	10	**G121618**	1952	A	62	208-230/460	5.6	84.0	19.01

WASHGUARD • TENV/TEFC • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/3	1725	56C	3	**116462●**	$1049	A	39	208-230/460	1.3	72.0	14.00
1/2	1725	56C	3	**116463●**	1075	A	41	208-230/460	1.8	78.5	14.50
3/4	1725	56C	6	**116464●**	1279	A	43	208-230/460	2.5	80.0	15.00
1	1725	56C	6	**116465●**	1325	A	45	208-230/460	3.2	80.0	15.50
	1725	143TC	6	**121613●**	1325	A	46	208-230/460	3.2	80.0	15.56
1½	1725	145TC	10	**121614**	1835	A	49	208-230/460	5.0	78.5	18.01
2	1725	145TC	10	**121615**	1888	A	61	208-230/460	6.2	81.5	18.51

All Washdown Duty motors have Class F Insulation.





JET PUMP • THREADED SHAFT THREE PHASE • 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)
3/4	3450	56J	**116774**	$547	A	23	208-230/460	2.4	75.5	10.81
1	3450	56J	**116775**	636	A	35	208-230/460	3.2	77.0	10.81
1½	3450	56J	**116776**	676	A	42	208-230/460	4.2	81.5	11.81
2	3450	56J	**116777**	774	A	47	208-230/460	5.6	82.5	12.31
3	3450	56J	**116778**	812	A	49	208-230/460	7.6	84.0	13.25

JET PUMP • THREADED SHAFT THREE PHASE • 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)
3/4	3450	56J	**116779**	$561	A	24	208-230/460	2.4	75.5	10.81
1	3450	56J	**116780**	652	A	36	208-230/460	3.2	77.0	10.81
1½	3450	56J	**116781**	707	A	43	208-230/460	4.2	81.5	11.81
2	3450	56J	**116782**	787	A	48	208-230/460	5.6	82.5	12.31
3	3450	56J	**116783**	838	A	50	208-230/460	7.6	84.0	13.25

WASHGUARD COUPLER BRAKES

Solid die-cast aluminum Stearns NEMA 4X coupler brake converts any TEFC or TENV 56C thru 145TC motor to a fail-safe brakemotor by mounting between the C-face motor and driven equipment. Food safe white epoxy finish. BISSC Certified. Adds 5" to the overall length of 56C thru 145TC WASHGUARD TEFC or TENV motors. Includes all mounting components.



For Both Single and Three Phase Motors

Cat. No. 115/208-230V Single Phase	Cat. No. 208-230/460V Three Phase	Cat. No. 575V 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.)
175566	**175567**	**175568**	3	1	56C	⅝", 56C	$960	A	13
175572	**175573**	**175574**	6	2	56C/143-5TC	⅝", 56C	1033	A	14

Larger coupler brakes on page 43.

WASHGUARD BRAKEKITS™

Kit of components including a Stearns NEMA 4X brake to convert 56 thru 145T frame stock TEFC only motors to fail-safe brakemotors. Food safe white epoxy finish. BISSC Certified. Adds 5 1/8" to the overall length of 56 thru 145T WASHGUARD TEFC motors.



WASHGUARD Brakekits™ have the same convenient assembly method as general purpose models.

For Both Three Phase and 230V Single Phase Motors

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No. 208-230/460 V Brake Coil Voltage	List Price	Disc. Sym.	App. Wt. (lbs.)
3	56/143-5T	1	**175616**	$1066	A	24
6	56/143-5T	2	**175617**	1125	A	36
10	56/143-5T	3	**175618**	1185	A	43

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD II MOTORS

STAINLESS FRAME • THREE PHASE

LEESON®

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. **All Washdown Duty motors have Class F Insulation.**

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.

BAKING INDUSTRY SANITATION STANDARDS COMMITTEE CERTIFIED BISSC

MEETS OR EXCEEDS LEESON EPACT ELECTRIC EFFICIENCY MANDATES

INVERTER-RATED INSULATION SYSTEM "NO-POKE" IRIS INSULATION SYSTEM MEETS NEMA MG 1 PART 30 & 31 FOR INVERTER-FED MOTORS PROTECTED AGAINST VFD INDUCED VOLTAGE SPIKES



STAINLESS FRAME • TENV➢ • 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)
1/2	1725	56C	**114394**	$641	A	30	208-230/460	1.6	78.5	11.06
3/4	1725	56C	**114395**	742	A	34	208-230/460	2.3	80.0	11.56
1	1725	56C	**114437**	769	A	44	208-230/460	3.0	81.5	12.06
	1725	143TC	**121109**	769	B	40	208-230/460	3.0	81.5	12.13
1½	1725	56C	**114581➢**	806	A	45	208-230/460	4.4	84.0	12.69
	1725	145TC	**121350➢**	806	B	40	208-230/460	4.4	84.0	12.75
2	1725	56C	**114582➢**	916	A	51	208-230/460	5.6	84.0	13.69
	1725	145TC	**121351➢**	916	B	51	208-230/460	5.6	84.0	13.75

➢ All ratings TENV except 1½ & 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	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	1725	56HC	**114560□**	$647	A	34	208-230/460	1.6	78.5	11.56
3/4	1725	56HC	**114561□**	748	A	38	208-230/460	2.3	80.0	12.06
1	1725	56HC	**114562□**	777	A	45	208-230/460	2.3	81.5	12.06
	1725	143TC	**121165**	777	B	45	208-230/460	2.3	81.5	12.13
1½	1725	145TC	**G121166➢**	812	B	42	208-230/460	4.4	84.0	13.25
2	1725	145TC	**G121167➢**	950	B	51	208-230/460	5.6	84.0	13.75

➢ All ratings TENV except 1½ & 2 HP, which is TEFC with stainless steel fan cover and chemically inert fan.
□ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-145T and standard NEMA 56C face and shaft.

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

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

Catalog numbers in green are EPACT motors.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD ALL-STAINLESS MOTORS

ALL-STAINLESS • THREE PHASE

WASHGUARD SST

This member of LEESON's family of tough ducks is designed for long life in demanding washdown applications. LEESON's FHP WASHGUARD SST All-Stainless motors are Stainless Steel Tough!

Built with all stainless steel external components to prevent corrosion and well sealed against moisture and condensation to protect internal components, the Washguard SST all-stainless motors are able to withstand the severe wash-down environments found in the food processing, chemical processing, and beverage industries.



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

300-Series stainless steel exterior components – frame, base, endshields, shaft extension, fan guard, hardware, conduit box and cover – for maximum corrosion resistance.

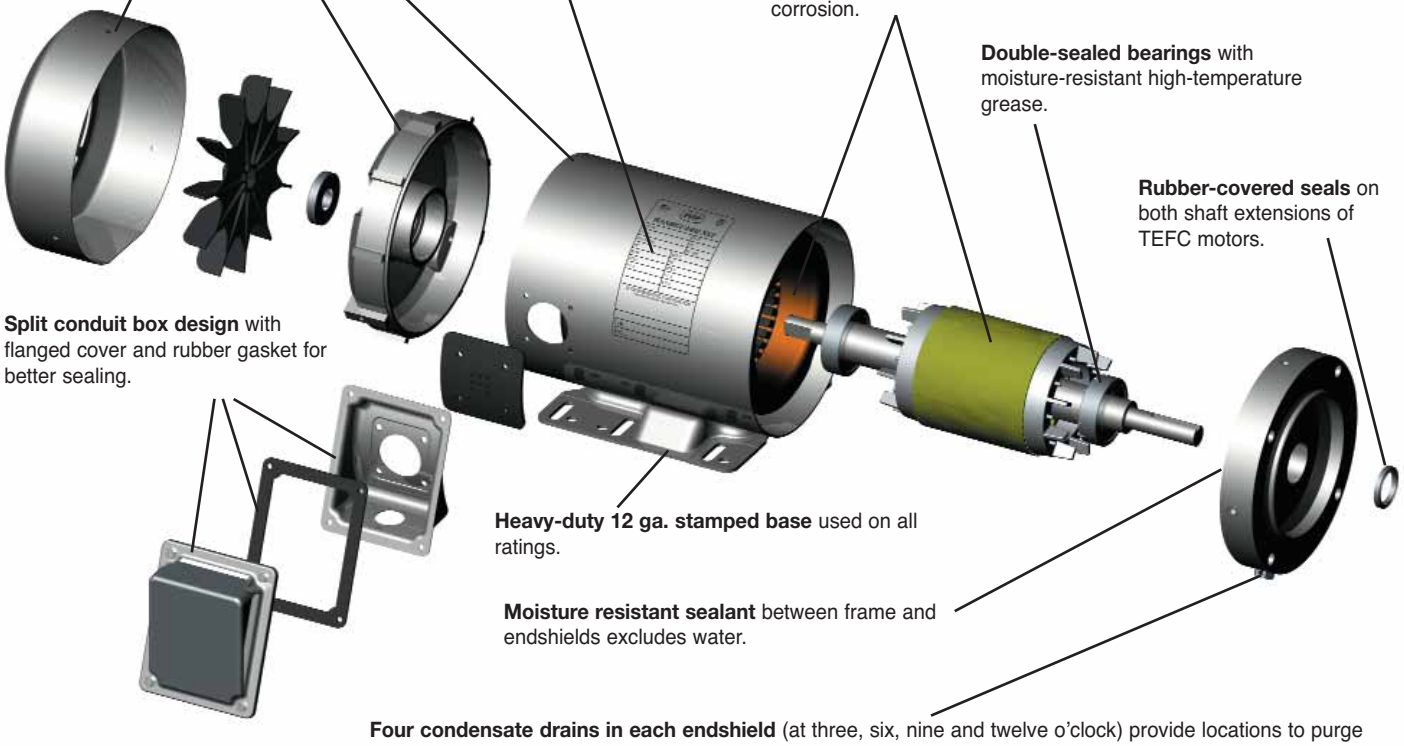
Laser-etched full-fact nameplate on motor frame.

Anti-corrosion coating applied to rotor and heavy polyester varnish on stator and to prevent corrosion.

Double-sealed bearings with moisture-resistant high-temperature grease.

Rubber-covered seals on both shaft extensions of TEFC motors.

Split conduit box design with flanged cover and rubber gasket for better sealing.



Heavy-duty 12 ga. stamped base used on all ratings.

Moisture resistant sealant between frame and endshields excludes water.

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

T-drains provided for effective drainage without allowing water to splash inside the motor. T-drain for opposite shaft end is installed at six o'clock position (and can be relocated easily). T-drain for shaft end is shipped loose for customer installation at low point of motor.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD SST

Mechanical Protection Features:

All exterior components – frame, base, endshields, fan guard, shaft, hardware, conduit box and cover – are made from 300 series stainless steel for maximum corrosion resistance. Nameplate data is permanently laser-etched into the motor frame – no Mylar nameplate that can wash off or riveted metal nameplate to trap dirt. No paint or any type of coating is used on the exterior of the motor.

Sealant is applied to endshield and frame fits before assembly to prevent water entry. Shaft seals on both ends of TEFC motors – shaft end only on TENV. Double-sealed bearings have high performance Exxon Polyrex EM grease. Conduit box is fully gasketed half-split design with flanged cover and body gasket with lead separator. Anti-corrosion coating on rotor prevents corrosion. Four quadrant drain locations on each endbell allow drainage of condensation in any mounting position. Stainless steel T-drains are provided to prevent liquids from splashing into the drain locations. Motors are shipped with a T-drain assembled in the six o'clock position on the opposite endshield. Another T-drain is shipped loose in the conduit box for installation at the lowest point of the shaft-end endshield. For a totally sealed motor, a spare pipe plug is included to replace the pre-installed T-drain.

Mechanical performance is further enhanced by over-sized bearings, heavy 12 gauge base, shaft-end bearing is locked internally to limit axial endplay, and specially designed shaft extension resists breakage at bearing journal.

Electrical Performance and Protection Features:

FHP Washguard SST full load efficiencies meet EPACT standards for non-exempt motors when tested without shaft seals. For extra moisture resistance, windings are immersed and cured in polyester insulating varnish. LEESON's exclusive IRIS™ Inverter-Rated Insulation System provides extra protection and long life, especially in inverter driven applications.

20:1 Constant Torque Operation

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.

Motor is CE marked for European acceptance.



SINGLE-PHASE • TENV/TEFC • C FACE W/BASE

HP	RPM	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3600	56C	191474	$548	A	29.5	115/208-230	3.1	11.1
	1800	56C	191475	617	A	31.5	115/208-230	4.1	11.1
3/4	3600	56C	191476	602	A	31.5	115/208-230	4.5	11.8
	1800	56C	191477	713	A	39.0	115/208-230	4.9	11.8
1	3600	56C	191478	708	A	39.0	115/208-230	6.2	12.3
	1800	56C	191479	743	A	42.5	115/208-230	6.8	12.3
1½	3600	56C	191480	779	A	42.5	115/208-230	8.8	13.2
	1800	56C	191481	776	A	52.5	115/208-230	9.5	13.2
2	3600	145TC	191482	1005	A	64.5	115/208-230	10.8	14.2
	1800	145TC	191483	985	A	64.5	115/208-230	9.0	14.2

Numbers in green are EPACT motors.
Numbers in blue are available 4th Quarter 2008.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.



THREE-PHASE • TENV/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)
1/3	3450	56C	191200●	$525	A	29	208-230/460	1.0	74.0	9.78
	1750	56C	191201●	587	A	30	208-230/460	1.3	78.5	9.78
1/2	3450	56C	191203●	537	A	32	208-230/460	1.5	77.0	9.78
	1750	56C	191204●	605	A	33	208-230/460	1.6	81.5	9.78
	1140	56C	191414●	659	A	36	208-230/460	2.0	78.5	9.76
3/4	3450	56C	191206●	590	A	33	208-230/460	2.0	78.5	9.78
	1750	56C	191207●	697	A	38	208-230/460	2.3	82.5	9.78
	1140	56C	191415●	758	A	49	208-230/460	3.0	80.0	11.30
1	3450	56HC	191209❑	692	A	41	208-230/460	2.6	80.0	13.77
	3450	143TC	G191210	744	B	42	208-230/460	2.6	80.0	13.62
	1750	56C	191291●①	727	A	46	208-230/460	3.0	81.5	11.00
	1750	56HC	191211❑	727	A	47	208-230/460	3.0	82.5	13.77
	1750	143TC	G191212	781	B	48	208-230/460	3.0	82.5	13.62
	1140	56HC	191417	792	A	49	208-230/460	3.8	82.5	13.10
	1140	145TC	191418	851	B	49	208-230/460	3.8	82.5	13.20
1½	3450	56HC	191215❑	763	A	48	208-230/460	3.8	82.5	13.77
	3450	143TC	G191216	821	B	49	208-230/460	3.8	82.5	13.62
	1750	56HC	191217❑	758	A	48	208-230/460	4.8	84.0	13.77
	1750	145TC	G191218	814	B	49	208-230/460	4.8	84.0	13.62
2	3450	56HC	191221❑	846	A	49	208-230/460	5.0	84.0	13.77
	3450	145TC	G191222	983	B	50	208-230/460	5.0	84.0	13.62
	1750	56HC	191223❑	865	A	52	208-230/460	5.8	84.0	13.77
	1750	145TC	G191224	966	B	53	208-230/460	5.8	84.0	13.62
3	3450	145TC	G191293	1055	B	62	208-230/460	7.4	85.5	14.12

● These motors are totally enclosed, non-ventilated — Others are fan cooled.
❑ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.
① 10:1 Constant Torque Operation



THREE-PHASE • TENV/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)
1/3	1750	56C	191202●	$583	A	30	208-230/460	1.3	78.5	9.78
1/2	1750	56C	191205●	597	A	33	208-230/460	1.6	81.5	9.78
	1140	56C	191419●	650	A	35	208-230/460	2.0	78.5	9.76
3/4	1750	56C	191208●	695	A	38	208-230/460	2.3	82.5	9.78
	1140	56C	191420●	756	A	47	208-230/460	3.0	80.0	11.30
1	1750	56C	191290●	725	A	45	208-230/460	3.0	81.5	11.00
	1750	56C	191213	725	A	47	208-230/460	3.0	82.5	13.77
	1750	143TC	191214	746	B	47	208-230/460	3.0	82.5	13.62
	1140	56C	191421	790	A	47	208-230/460	3.8	82.5	13.10
1½	1750	56C	191219	756	A	48	208-230/460	4.8	84.0	13.77
	1750	145TC	191220	778	B	48	208-230/460	4.8	84.0	13.62
2	1750	56C	191225	862	A	52	208-230/460	5.8	84.0	13.77
	1750	145TC	191226	888	B	52	208-230/460	5.8	84.0	13.62

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD ALL-STAINLESS MOTORS

ALL-STAINLESS • SINGLE PHASE • THREE PHASE

PREMIUM STAINLESS STEEL DUCK





General Specifications:
Designed specifically to meet the demanding sanitation requirements of the pharmaceutical, food processing and beverage industries. These motors are also ideal in clean room and severe chemical-processing applications involving frequent washdown with nitric acid and caustic lye. In fact, WASHGUARD All-Stainless Motors include IEEE 841 severe-duty features right out of the box! Motors have been tested to and passed the IEC IP-56 test requirements.

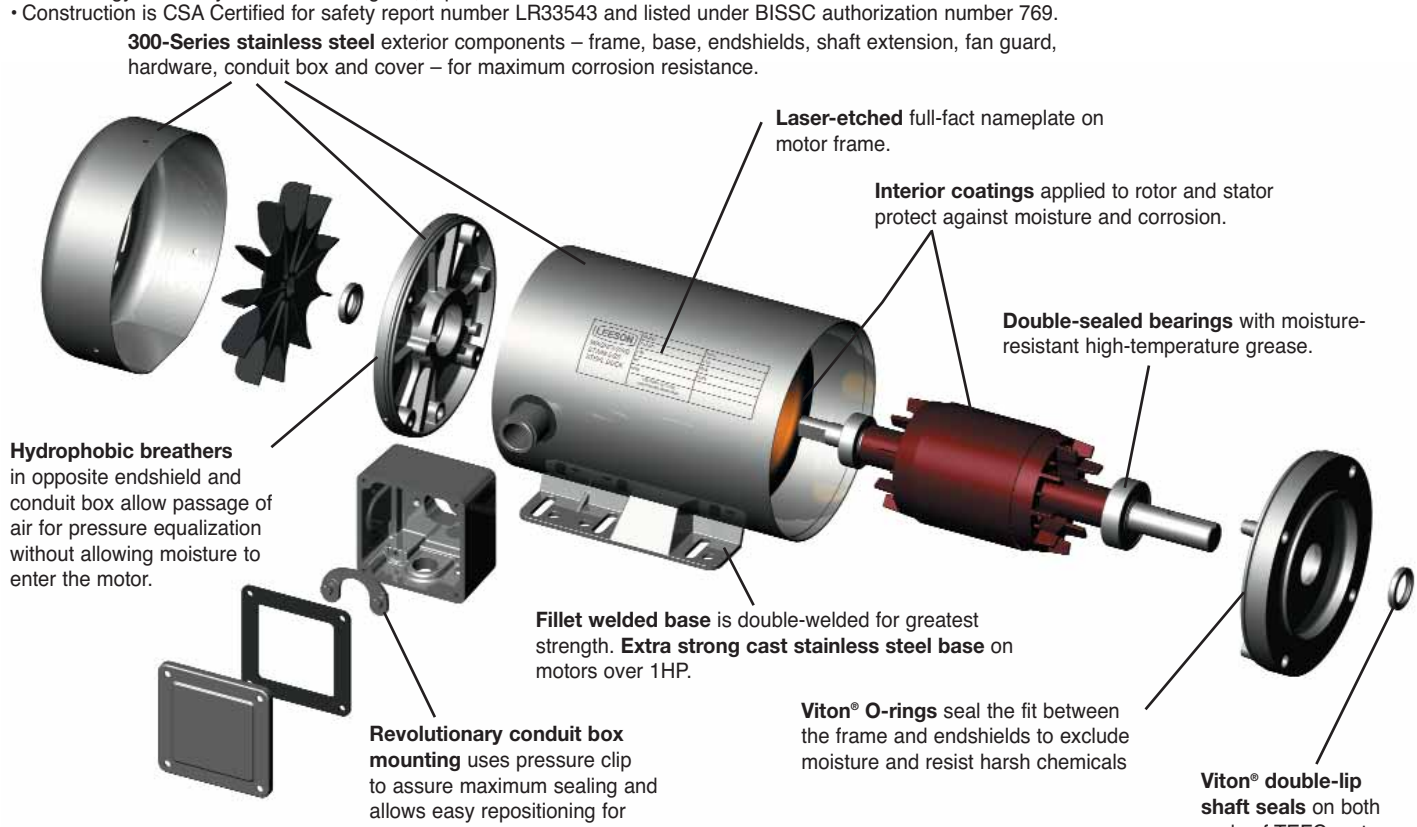
Mechanical Protection Features:
- All exterior components are 300-series stainless steel.
- Nothing on the motor's exterior is painted or coated in any way.
- All sealing components are Viton® for superior chemical resistance.
- Full fact nameplate is laser etched on the motor frame – no separately attached nameplate to trap dirt or contaminants.
- Endshields are O-ring sealed to the frame.
- Double lip shaft seals on both ends of TEFC motors (shaft end only on TENV motors).
- Removable hydrophobic breathers in opposite shaft endbell and conduit box equalize pressure without allowing moisture to enter.
- Exterior fastener use minimized reducing the number of entry points for moisture. There are no holes in the frame for attaching a nameplate. Bearing lock screws are located inside the motor and the conduit box mounted screws have been eliminated.
- Double-sealed bearings are pre-lubricated with moisture-resistant high-temperature grease for long life.
- Interior coatings applied to rotor and stator protect against corrosion.
- New conduit box mounting system provides optimum sealing.
- Ease to clean construction is BISSC Certified for bakery applications..

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

Electrical Performance and Protection Features
- WASHGUARD efficiencies meet EPACT mandates for non-exempt motors when tested without shaft seals.
- Windings are immersed and cured in polyester insulating varnish for extra moisture-resistance.
- LEESON's exclusive IRIS™ Inverter-Rated Insulation System provides extra protection and long life, especially in inverter-driven applications.
- Single-phase motors use Solid State Sinpac® switch – no mechanical switch contacts to corrode and fail.
- **All Washdown Duty motors have Class F Insulation.**

Standards and Approvals
- Single and three phase motors are UL component recognized – file number E57948, guide number PRGY2.
- 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.



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD ALL-STAINLESS MOTORS

LEESON®

ALL-STAINLESS • THREE PHASE



PREMIUM STAINLESS STEEL DUCK



THREE PHASE • TENV/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)
1/2	3450	56HC	116165●□	$1045	A	35	208-230/460	1.6	82.5	12.04
	1750	56HC	115633●□	1121	A	35	208-230/460	1.6	78.5	12.54
	1140	56HC	116297●□	1397	A	35	208-230/460	2.3	77.0	12.54
3/4	3450	56HC	116167●□	1082	A	40	208-230/460	2.4	84.0	12.54
	1750	56HC	115634●□	1163	A	41	208-230/460	2.3	80.0	13.04
	1140	56HC	116298●□	1443	A	46	208-230/460	3.0	78.5	14.04
1	3450	56HC	116169●□	1184	A	43	208-230/460	2.6	85.5	13.04
	1750	56HC	115635●□	1190	A	44	208-230/460	3.0	81.5	13.54
	1750	56HC	116674	1223	A	39	208-230/460	3.1	82.5	13.13
	1750	143TC	121419●□	1190	B	44	208-230/460	3.0	81.5	13.61
	1750	143TC	G121658	1223	B	50	208-230/460	3.1	82.5	13.19
	1140	56HC	116299□	1479	B	48	208-230/460	4.0	77.0	13.13
1½	3450	143TC	G121524	1232	B	45	208-230/460	4.0	82.5	13.69
	1750	56HC	116450□	1251	B	49	208-230/460	4.4	84.0	13.63
	1750	145TC	G121420	1251	B	49	208-230/460	4.4	84.0	13.69
	1140	56HC	116300□	1538	B	51	208-230/460	5.4	80.0	14.13
2	3450	145TC	G121526	1463	B	49	208-230/460	5.2	84.0	13.69
	1750	56HC	116451□	1479	B	50	208-230/460	5.6	84.0	13.63
	1750	145TC	G121421	1479	B	50	208-230/460	5.6	84.0	13.69
3	3450	145TC	G121528	1761	B	53	208-230/460	7.6	85.5	13.69
	1750	182TC	G131900	1826	B	85	208-230/460	8.2	87.5	14.77
5	3450	184TC	G131901	2069	B	90	208-230/460	12.0	87.5	14.77
	1750	184TC	G131902	2025	B	96	208-230/460	13.0	87.5	15.27
7½	3450	213TC	G140698	2833	B	160	208-230/460	18.4	88.5	18.69
	1750	213TC	G140675	3197	B	160	208-230/460	20.4	89.5	18.69
10	3450	215TC	G140699	2912	B	165	208-230/460	24.0	89.5	18.69
	1750	215TC	G140676	3293	B	173	208-230/460	26.0	89.5	18.69

● These motors are totally enclosed, non-ventilated — Others are fan cooled.
□ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

THREE PHASE • TENV/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)
1/2	3450	56C	116316●	$1027	A	35	208-230/460	1.6	82.5	12.04
	1750	56C	116166●	1098	A	34	208-230/460	1.6	78.5	12.54
3/4	3450	56C	116317●	1062	A	40	208-230/460	2.4	84.0	12.54
	1750	56C	116168●	1133	A	40	208-230/460	2.3	80.0	13.04
1	3450	56C	116318●	1164	A	43	208-230/460	2.6	85.5	13.04
	1750	56C	116170●	1170	A	44	208-230/460	3.0	81.5	13.54
	1750	56HC	116675	1170	A	45	208-230/460	3.1	82.5	13.13
	1750	143TC	121523●	1170	B	44	208-230/460	3.0	81.5	13.61
	1750	143TC	121659	1170	B	46	208-230/460	3.1	82.5	13.19
1½	3450	143TC	121560	1171	B	45	208-230/460	4.0	82.5	12.69
	1750	56C	116448	1193	B	49	208-230/460	4.4	84.0	13.63
	1750	145TC	121525	1193	B	49	208-230/460	4.4	84.0	13.69
2	3450	145TC	121561	1437	B	48	208-230/460	5.2	84.0	13.19
	1750	56C	116449	1447	B	49	208-230/460	5.6	84.0	13.63
	1750	145TC	121527	1447	B	54	208-230/460	5.6	84.0	13.69
3	3450	145TC	121562	1728	B	49	208-230/460	7.6	85.5	13.69
	1750	182TC	131923	1741	B	82	208-230/460	8.2	87.5	14.77
5	3450	184TC	131949	1974	B	90	208-230/460	12.0	87.5	14.77
	1750	184TC	131924	1987	B	94	208-230/460	13.0	87.5	15.27

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

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

SINGLE PHASE • TENV/TEFC • C FACE WITH BASE

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	1750	56HC	116343●❑	$1173	A	35	115/208-230	None	2.7	12.20
1/2	3450	56HC	116344●❑	1160	A	38	115/208-230	None	3.8	12.20
	1750	56HC	116345●❑	1190	A	38	115/208-230	None	3.3	12.70
3/4	1750	56HC	116346●❑	1256	A	42	115/208-230	None	3.8	12.70
1	3450	56HC	116347●❑	1316	A	49	115/208-230	None	6.0	13.70
	1750	56HC	116348●❑	1307	A	49	115/208-230	None	4.5	13.70
1½	3450	56HC	116482❑	1379	A	49	115/208-230	None	6.8	13.81
	1750	145TC	121622	1358	B	53	115/208-230	None	7.4	14.81
2	3450	145TC	121623	1506	B	57	115/208-230	None	8.8	14.81
	1750	145TC	121632	1567	B	57	115/208-230	None	10.0	14.81

● These motors are totally enclosed, non-ventilated — Others are fan cooled.
❑ Combination 56H base motors have mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft.

SINGLE PHASE • TENV/TEFC • C FACE LESS BASE

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	1750	56C	116349●	$1148	A	35	115/208-230	None	2.7	11.70
1/2	1750	56C	116350●	1169	A	38	115/208-230	None	3.3	12.70
3/4	1750	56C	116351●	1231	A	42	115/208-230	None	3.8	12.70
1	1750	56C	116352●	1275	A	49	115/208-230	None	4.5	13.70
1½	1750	145TC	121624	1295	B	53	115/208-230	None	7.4	14.87
2	1750	145TC	121633	1490	B	57	115/208-230	None	10.0	14.87

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





BRAKE MOTOR
THREE PHASE • TENV • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	1725	56C	3	116483●	$4098	A	59	208-230/460	1.6	78.5	15.85
1	1725	56C	6	116484●	4319	A	69	208-230/460	3.0	81.5	15.85

● These motors are totally enclosed, non-ventilated.

THREE PHASE • TEFC • 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	1750	143JM	121626	$1217	B	53	208-230/460	3.1	82.5	16.00
1½	3450	143JM	121627	1218	B	46	208-230/460	4.0	82.5	16.00
	1750	145JM	121628	1242	B	49	208-230/460	4.4	84.0	16.00
2	3450	145JM	121629	1447	B	52	208-230/460	5.2	84.0	16.00
	1750	145JM	121630	1463	B	50	208-230/460	5.6	84.0	16.50
3	3450	145JM	121631	1740	B	53	208-230/460	7.6	85.5	16.50
	1750	182JM	131996	1841	B	85	208-230/460	8.2	87.5	16.20
5	3450	184JM	131997	2030	B	89	208-230/460	12.0	87.5	16.20
	1750	184JM	131998	2041	B	96	208-230/460	13.0	87.5	16.77
7½	3450	213JM	140740	3093	B	153	208-230/460	18.4	88.5	16.81
	1750	213JM	140741	3160	B	156	208-230/460	20.4	89.5	19.81
10	3450	215JM	140742	3200	B	155	208-230/460	24.0	89.5	19.81
	1750	215JM	140743	3259	B	173	208-230/460	26.0	89.5	19.81

Catalog numbers in green are EPACT motors.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD ALL-STAINLESS MOTORS

ALL-STAINLESS • THREE PHASE





EXTREME DUCK

NEW!



General Specifications:
These Revolutionary Designed Stainless Steel Motors are built using our "Voice of the customer" design criteria to withstand extreme washdown and sanitation requirements of the food processing, pharmaceutical, packaging and beverage industries. Our Innovative Hydro Sealed System "HS²" protects from the "outside-in" by reducing entrance points of contaminants and eliminates the need for drain plugs and breathers. This proven process also minimizes exterior hardware, which may trap application elements. Our unique Rotor/Cartridge Seal System, "Q-CAR" gives quick access to the interior of the motor should the need arise. 300-Series Stainless Steel used on all exterior surfaces gives ideal protection against severe chemical-processing applications and frequent washdown processes using Salt water, Nitric Acids and Solvents. These motors meet IEC IP-67 test requirements, though they are not designed to run immersed in water.

Mechanical Protection Features:
- All exterior components are 300-Series stainless steel
- Protech Bearing isolator used for the output shaft seal
- Double Lip Viton shaft seal used on non-drive output shaft on TEFC motors
- Minimal exterior fasteners due to no through-bolt design and screw on conduit box covers reduces surface areas that may trap contaminants
- Double-sealed bearings are pre-lubricated with moisture resistant, high temperature grease for long life
- Rotor/Cartridge, "Q-CAR," design for quick access to motor interior (patent pending).
- O-ring sealed openings on conduit box covers and Rotor/Cartridge cover
- Rigid Cast Base for rugged applications
- Conduit box lead hole location rotatable on TEFC designs
- Full fact nameplate is laser etched to the motor frame making frame surface smooth, which eliminates areas that trap contaminants
- Ease of clean construction is BISSC certified for bakery applications and motors meet Pharmaceutical Duty specifications

Electrical Performance and Protection Features
- Motors meet EPACT mandates for non-exempt motors when tested without shaft seals
- Total winding encapsulation using an Epoxy Resin.
- LEESON's exclusive IRIS™ Inverter-Rated Insulation System provides extra protection and long life, especially when used in applications driven by an Inverter.
- 3 year warranty
- 10:1 constant torque operation

Standards and Approvals
- Motors are UL component recognized – file number E57948, guide number PRGY2
- 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
- 3 year warranty

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WASHGUARD ALL-STAINLESS MOTORS

ALL-STAINLESS • THREE PHASE

LEESON







THREE PHASE • TENV/TEFC • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56C	117118●	$1171	39	208-230/460	1.6	10.47
	1750	56C	117119●	1231	40	208-230/460	1.6	10.72
3/4	3450	56C	117120●	1211	46	208-230/460	2.4	10.47
	1750	56C	117121●	1279	47	208-230/460	2.3	11.22
1	3450	56C	117122●	1301	48	208-230/460	2.6	10.97
	1750	56C	117123●	1309	50	208-230/460	3.0	11.97
1½	3450	143TC	G121748	1381	54	208-230/460	4.0	11.00
	1750	145TC	G121749	1376	56	208-230/460	4.4	11.25
2	3450	145TC	G121739	1595	56	208-230/460	5.2	12.50
	1750	145TC	G121740	1613	57	208-230/460	5.6	12.50

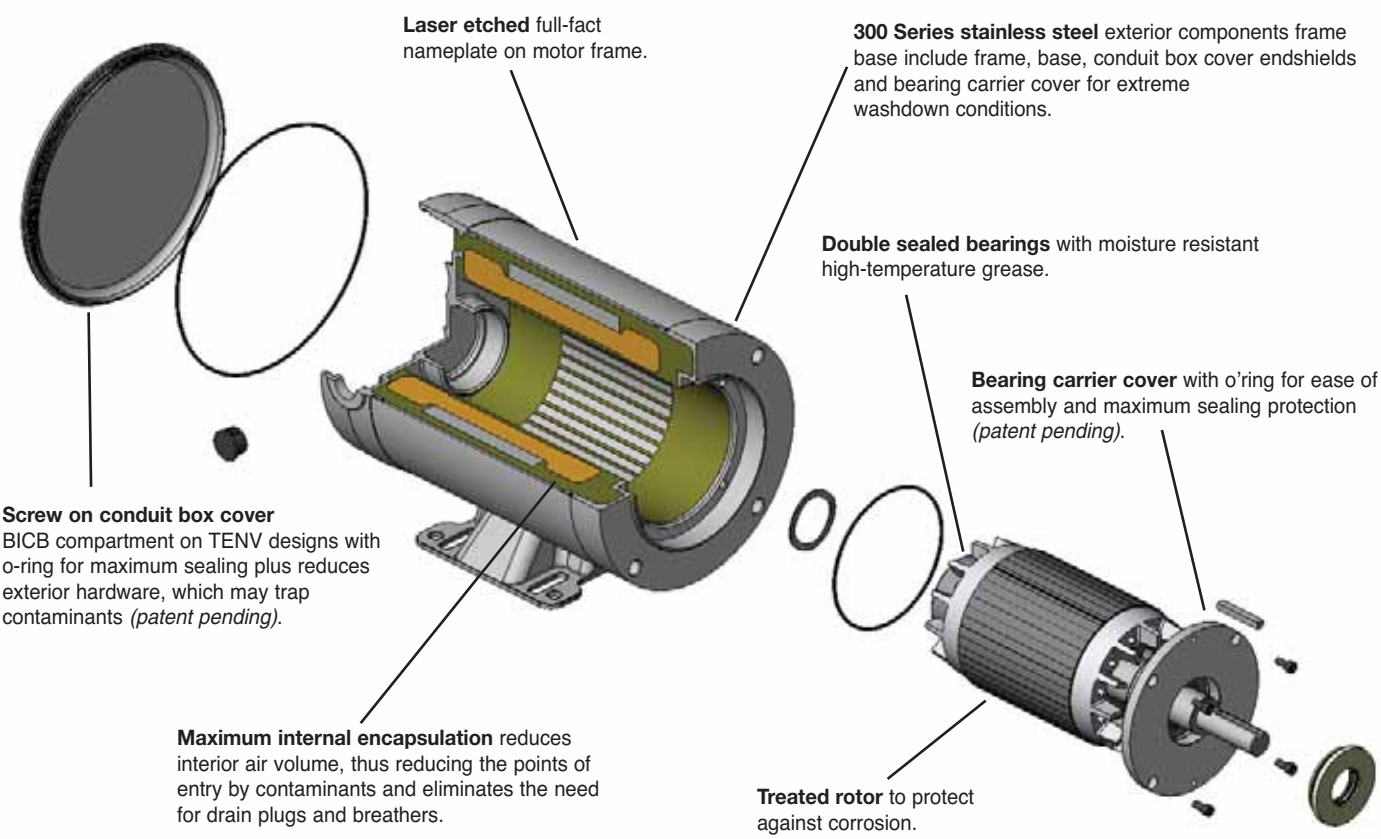
● These motors are totally enclosed, non-ventilated — Others are fan cooled.

Catalog numbers in green are EPACT motors.

THREE PHASE • TENV/TEFC • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56C	117126●	$1148	38	208-230/460	1.6	10.47
	1750	56C	117127●	1209	39	208-230/460	1.6	10.72
3/4	3450	56C	117128●	1188	45	208-230/460	2.4	10.47
	1750	56C	117129●	1256	46	208-230/460	2.3	11.22
1	3450	56C	117130●	1278	47	208-230/460	2.6	10.97
	1750	56C	117131●	1287	50	208-230/460	3.0	11.97
1½	3450	143TC	121750	1358	53	208-230/460	4.0	11.00
	1750	145TC	121751	1354	55	208-230/460	4.4	11.25
2	3450	145TC	121742	1573	55	208-230/460	5.2	12.50
	1750	145TC	121743	1590	56	208-230/460	5.6	12.50

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



Laser etched full-fact nameplate on motor frame.

300 Series stainless steel exterior components frame base include frame, base, conduit box cover endshields and bearing carrier cover for extreme washdown conditions.

Double sealed bearings with moisture resistant high-temperature grease.

Bearing carrier cover with o'ring for ease of assembly and maximum sealing protection *(patent pending)*.

Screw on conduit box cover
BICB compartment on TENV designs with o-ring for maximum sealing plus reduces exterior hardware, which may trap contaminants *(patent pending)*.

Maximum internal encapsulation reduces interior air volume, thus reducing the points of entry by contaminants and eliminates the need for drain plugs and breathers.

Treated rotor to protect against corrosion.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP