



EXTREME DUCK



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 “HS™” 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.

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
- IP 56 Enclosure protection

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

WASHGUARD ALL-STAINLESS MOTORS



ALL-STAINLESS • THREE PHASE • STANDARD & NEMA PREMIUM RATINGS



EXTREME DUCK



AC MOTORS

THREE PHASE • TENV/TEFC • C FACE WITH BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	"C" Dim. (Inches)
1/3
1/2	3600	56C	117118.00●	39	208-230/460	1.6	10.47

	1800	S56C	103411.00●	33	208-230/460	1.6	11.49
	1800	56C	117119.00●	40	208-230/460	1.6	10.72
3/4	3600	56C	117120.00●	46	208-230/460	2.4	10.47
	1800	S56C	103412.00	39	208-230/460	2.3	12.50
	1800	56C	117121.00●	47	208-230/460	2.3	11.22
1	3600	56C	117122.00●	48	208-230/460	2.6	10.97
	1800	56C	117123.00●	50	208-230/460	3.0	11.97
1½	3600	143TC	121879.00[w]	54	208-230/460	4.0	11.75
	3600	143TC	G121748.00	54	208-230/460	4.0	11.00
	1800	56C	117296.00	56	208-230/460	4.4	11.69
	1800	145TC	121880.00[w]	56	208-230/460	4.4	12.75
	1800	145TC	G121749.00	56	208-230/460	4.4	11.25
2	3600	145TC	121881.00[w]	56	208-230/460	5.2	12.75
	3600	145TC	G121739.00	56	208-230/460	5.2	12.50
	1800	56C	117299.00[w]	57	208-230/460	5.6	12.69
	1800	145TC	121882.00	57	208-230/460	5.6	13.25
	1800	145TC	G121740.00	57	208-230/460	5.6	12.50

● These motors are totally enclosed, non-ventilated—Others are fan cooled.
 [w] Premium efficiency WATSAVERe Motors. See page 19 for details.

THREE PHASE • TENV/TEFC • C FACE LESS BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	48C	103417.00●	30	208-230/460	1.3	9.58
1/2	3600	56C	117126.00●	38	208-230/460	1.6	10.47
	1800	48C	103418.00●	32	208-230/460	1.6	11.33
	1800	S56C	103413.00●	32	208-230/460	1.6	11.49
	1800	56C	117127.00●	39	208-230/460	1.6	10.72
3/4	3600	56C	117128.00●	45	208-230/460	2.4	10.47
	1800	S56C	103414.00	38	208-230/460	2.3	12.50
	1800	56C	117129.00●	46	208-230/460	2.3	11.22
1	3600	56C	117130.00●	47	208-230/460	2.6	10.97
	1800	56C	117131.00●	50	208-230/460	3.0	11.69
1½	3600	143TC	121908.00[w]	53	208-230/460	4.0	11.75
	3600	143TC	121750.00	53	208-230/460	4.0	11.00
	1800	56C	117297.00	55	208-230/460	4.4	11.69
	1800	145TC	121909.00[w]	55	208-230/460	4.4	12.75
	1800	145TC	121751.00	55	208-230/460	4.4	11.25
2	3600	145TC	121910.00[w]	55	208-230/460	5.2	12.75
	3600	145TC	121742.00	55	208-230/460	5.2	12.50
	1800	145TC	121743.00	56	208-230/460	5.6	12.50
	1800	145TC	121911.00[w]	56	208-230/460	5.6	13.25
	1800	56C	117298.00	56	208-230/460	5.6	12.69

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Catalog numbers in green are EPACT motors.

