

## Washguard® Motors

### Extreme Duck Washguard® All-Stainless Motors Three Phase - Standard, EPAct & NEMA Premium Ratings



**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<sup>2</sup>™" 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 66 Enclosure protection

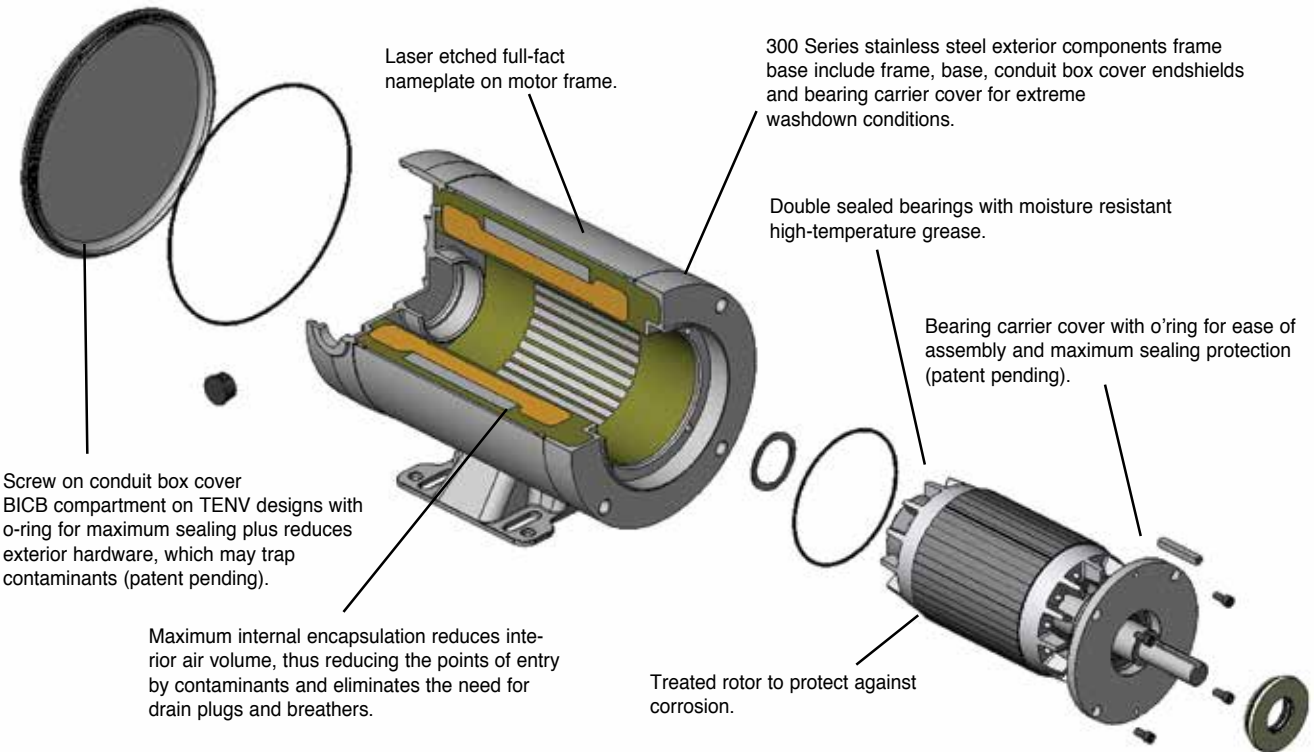
#### Electrical Performance and Protection Features:

- 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

ExtremeDuck

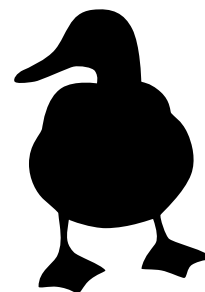


## Coming Soon . . . .

The all new Extreme. It's not your average duck.

- **Extreme** Sealing
- **Extreme** Durability
- **Extreme** Confidence

The new Extreme Duck.



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

# Washguard® Motors

## Extreme Duck Washguard® All-Stainless Motors Three Phase - Standard, EAct & NEMA Premium Ratings



### Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock
1/2	3600	56C	117118.00	✓
	1800	S56C	103411.00	✓
	1800	56C	117119.00	✓
3/4	3600	56C	117120.00	✓
	1800	S56C	103412.00	✓
	1800	56C	117121.00	✓
1	3600	56C	117122.00	✓
	1800	56C	117123.00	✓
	1800	56C	117121.00	✓
1 1/2	3600	143TC	121879.00	✓
	3600	143TC	G121748.00	✓
	1800	56C	117296.00	✓
	1800	145TC	121880.00	✓
	1800	145TC	G121749.00	✓
2	3600	145TC	121881.00	✓
	3600	145TC	G121739.00	✓
	1800	56C	117299.00	✓
	1800	145TC	121882.00	✓
	1800	145TC	G121740.00	✓

Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Notes
CZ6T34VK16	39	208-230/460	1.6	82.5	1.15	10.47	S, US, 12
CZ4T17VK1	33	208-230/460	1.6	76.0	1.15	11.49	S, US, 12
CZ6T17VK43	40	208-230/460	1.6	78.5	1.15	10.72	S, US, 12
CZ6T34VK17	46	208-230/460	2.4	84.0	1.15	10.47	S, US, 12
CZ4T17WK2	39	208-230/460	2.3	77.0	1.15	12.50	S, US, 13
CZ6T17VK44	47	208-230/460	2.3	80.0	1.15	11.22	S, US, 12
CZ6T34VK18	48	208-230/460	2.6	85.5	1.15	10.97	S, US, 12
CZ6T17VK45	50	208-230/460	3.0	81.5	1.15	11.97	S, US, 12
CZ143T34WK8	54	208-230/460	4.0	84.0	1.15	11.75	S, US, 13
CZ143T34WK4	54	208-230/460	4.0	82.5	1.15	11.00	S, US, 13
CZ6T17WK30	56	208-230/460	4.4	84.0	1.15	11.69	S, US, 13
CZ143T17WK13	56	208-230/460	4.4	86.5	1.15	12.75	S, US, 13
CZ143T17WK8	56	208-230/460	4.4	84.0	1.15	11.25	S, US, 13
CZ145T34WK19	56	208-230/460	5.2	85.5	1.15	12.75	S, US, 13
CZ145T34WK10	56	208-230/460	5.2	84.0	1.15	12.50	S, US, 13
CZ6T17WK29	57	208-230/460	5.6	84.0	1.15	12.69	S, US, 13
CZ145T17WK34	57	208-230/460	5.6	86.5	1.15	13.25	S, US, 13
CZ145T17WK25	57	208-230/460	5.6	84.0	1.15	12.50	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

## Extreme Duck Washguard® All-Stainless Motors

### Three Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock
1/3	1800	48C	103417.00	✓
1/2	3600	56C	117126.00	✓
	1800	48C	103418.00	✓
	1800	S56C	103413.00	✓
3/4	1800	56C	117127.00	✓
	3600	56C	117128.00	✓
	1800	S56C	103414.00	✓
1	1800	56C	117129.00	✓
	3600	56C	117130.00	✓
	1800	56C	117131.00	✓
1 1/2	3600	143TC	121908.00	✓
	3600	143TC	121750.00	✓
	1800	56C	117297.00	✓
	1800	145TC	121909.00	✓
	1800	145TC	121751.00	✓
2	3600	145TC	121910.00	✓
	3600	145TC	121742.00	✓
	1800	145TC	121743.00	✓
	1800	145TC	121911.00	✓
	1800	56C	117298.00	✓

Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Notes
CZ4T17VC8	30	208-230/460	1.3	70.5	1.15	9.58	S, US, 12
CZ6T34VC19	38	208-230/460	1.6	82.5	1.15	10.47	S, US, 12
CZ4T17VC2	32	208-230/460	1.6	76.0	1.15	11.33	S, US, 12
CZ4T17VC1	32	208-230/460	1.6	76.0	1.15	11.49	S, US, 12
CZ6T17VC53	39	208-230/460	1.6	78.5	1.15	10.72	S, US, 12
CZ6T34VC20	45	208-230/460	2.4	84.0	1.15	10.47	S, US, 12
CZ4T17WC2	38	208-230/460	2.3	77.0	1.15	12.50	S, US, 13
CZ6T17VC54	46	208-230/460	2.3	80.0	1.15	11.22	S, US, 12
CZ6T34VC21	47	208-230/460	2.6	85.5	1.15	10.97	S, US, 12
CZ6T17VC55	50	208-230/460	3.0	81.5	1.15	11.69	S, US, 12
CZ143T34WC6	53	208-230/460	4.0	84.0	1.15	11.75	S, US, 13
CZ143T34WC2	53	208-230/460	4.0	82.5	1.15	11.00	S, US, 13
CZ6T17WC32	55	208-230/460	4.4	84.0	1.15	11.69	S, US, 13
CZ143T17WC11	55	208-230/460	4.4	86.5	1.15	12.75	S, US, 13
CZ143T17WC5	55	208-230/460	4.4	84.0	1.15	11.25	S, US, 13
CZ145T34WC18	55	208-230/460	5.2	85.5	1.15	12.75	S, US, 13
CZ145T34WC10	55	208-230/460	5.2	84.0	1.15	12.50	S, US, 13
CZ145T17WC22	56	208-230/460	5.6	84.0	1.15	12.50	S, US, 13
CZ145T17WC36	56	208-230/460	5.6	86.5	1.15	13.25	S, US, 13
CZ6T17WC33	56	208-230/460	5.6	84.0	1.15	12.69	S, US, 13

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**Extreme Duck Motors with Shaft Grounding Rings (SGRs)**  
**SGRs help prevent bearing damage when running motors with AC Controls**



## Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock
1/2	1800	56C	117906.00	√
3/4	1800	56C	117907.00	√
1	1800	56C	117908.00	√
1 1/2	1800	56C	117909.00	√
	1800	145TC	122032.00	√
2	1800	56C	117910.00	√
	1800	145TC	122033.00	√

Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
CZ6T17VK55	40	208-230/460	1.6	78.5	1.15	10.72	S, US, 12
CZ6T17VK56	47	208-230/460	2.3	80.0	1.15	11.22	S, US, 12
CZ6T17VK57	50	208-230/460	3.0	81.5	1.15	11.97	S, US, 12
CZ6T17WK41	56	208-230/460	4.4	84.0	1.15	11.69	S, US, 13
CZ143T17WK20	56	208-230/460	4.4	84.0	1.15	11.25	S, US, 13
CZ6T17WK42	57	208-230/460	5.6	84.0	1.15	12.69	S, US, 13
CZ145T17WK54	57	208-230/460	5.6	84.0	1.15	12.50	S, US, 13

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Automotive Duty Motors

Pump Motors

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Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors



Explosion Proof  
Motors

Automotive  
Duty Motors

Pump  
Motors

Washguard®  
Motors

Agricultural  
Duty Motors

HVAC / Fan  
Motors

Special Voltage  
Motors

Definite  
Purpose Motors

Brake Motors



DE-FEATHERING



SCALDING



FEEDING



CUTTING



PROCESSING



SLICING



INSPECTION



DE-BONING

## There's a LEESON Washguard® Motor for every location in your facility.

LEESON offers more than 200 off-the-shelf solutions to everyday washdown motor needs. What's more, LEESON offers washdown-rated gear reducers and AC and DC controls to compliment our washdown motor line. And, when you need a specially engineered custom solution to your washdown application, think LEESON. Our flexible manufacturing processes enable custom products to be manufactured in small or large quantities.



# Washguard® Motors

## Features Comparison



Feature	White Duck	Super Duck	SST Duck	Stainless Duck	Extreme Duck
Sealed Bearings	■	■	■	■	■
Potted Lead Entrance					■
Complete Motor Encapsulation					■
Nameplate Etched in Frame	■	■	■	■	■
Interior Corrosion Protected	■	■	■	■	
Motor Breathe Plugs/Drain Plugs	■	■	■	■	Not Needed for total encapsulation
Internally Locked Shaft-End Bearing	■	■	■	■	■
Shaft Seals on Both Ends of TEFC Motors	■	■	■	■	■
Viton® Seals Between Endbells and Frame				■	■
UL, CSA Listed	■	■	■	■	■
60Hz and 50Hz Data on Nameplate	■	■	■	■	■
CE Mark on Nameplate	■	■	■	■	■
O-Ring Sealed Openings				■	■
Standard Motors Include Inverter-Rated Insulation System and Marked on Nameplate—1HP and Higher	■	■	■	■	■
Local Inventory Support	■	■	■	■	
Rotor Cartridge Change-Out				■ ①	■
BISSC Approved		■			■
3-Year Warranty	■ ②	■ ②	■ ②	■ ②	■
Screw On Conduit Box Cover				■ ①	■
Pump Motor Designs	■			■	
Brakemotor Designs	■			■	
DC Motors Available	■			■	
Metric Designs Available				■	

① 56/143/145T Frame Ratings ② Premium Efficient Motors

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Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors