

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.



STAINLESS FRAME • TENV • C FACE LESS BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	1800	56C	114394.00	30	208-230/460	1.6	78.5	11.06
3/4	1800	56C	114395.00	34	208-230/460	2.3	80.0	11.56
1	1800	56C	114437.00	44	208-230/460	3.0	81.5	12.06
	1800	143TC	121109.00	40	208-230/460	3.0	81.5	12.13
1 1/2	1800	56C	114581.00▶	45	208-230/460	4.4	84.0	12.69
	1800	145TC	G121350.00▶	45	208-230/460	4.4	82.5	13.25
2	1800	56C	114582.00▶	51	208-230/460	5.6	84.0	13.69
	1800	145TC	G121351.00▶	52	208-230/460	5.6	84.0	13.75

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



STAINLESS FRAME • TENV • C FACE WITH BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	1800	56HC	114560.00□	34	208-230/460	1.6	78.5	11.56
3/4	1800	56HC	114561.00□	38	208-230/460	2.3	80.0	12.06
1	1800	56HC	114562.00□	45	208-230/460	2.3	81.5	12.06
	1800	143TC	121165.00	45	208-230/460	2.3	81.5	12.13
1 1/2	1800	145TC	121912.00▶	47	208-230/460	4.4	86.5	13.25
	1800	145TC	121913.00▶	54	208-230/460	5.6	86.5	13.75

▶ All ratings TENV except 1/2 & 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



WATTSAVERe Motors Meet NEMA MG1 part 30 & 31.

Specifications are subject to change without notice



**PREMIUM
STAINLESS
STEEL DUCK**



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	% F.L. Eff.	"C" Dim. (Inches)
1/2	3600	56HC	117269.00●	35	208-230/460	1.6	82.5	12.04
	1800	S56C	103387.00●	31	208-230/460	1.6	76.0	11.49
	1800	56HC	117266.00●	35	208-230/460	1.6	78.5	12.54
	1200	56HC	117275.00●	35	208-230/460	2.3	77.0	12.54
3/4	3600	56HC	117271.00●	40	208-230/460	2.4	84.0	12.54
	1800	S56C	103388.00●	28	208-230/460	2.3	77.0	12.50
	1800	56HC	117267.00●	41	208-230/460	2.3	80.0	13.04
	1200	56HC	117276.00●	46	208-230/460	3.0	78.5	14.04
1	3600	56HC	117273.00●	43	208-230/460	2.6	85.5	13.04
	1800	56HC	115635.00●□	44	208-230/460	3.0	81.5	13.54
	1800	56HC	117286.00●	39	208-230/460	3.1	82.5	13.13
	1800	143TC	121795.00●	44	208-230/460	3.0	81.5	13.61
	1800	143TC	121873.00●	50	208-230/460	3.1	85.5	13.19
	1200	56HC	117277.00●	48	208-230/460	4.0	77.0	13.13
1 1/2	3600	143TC	121874.00●	45	208-230/460	4.0	84.0	13.69
	1800	56HC	117284.00●	49	208-230/460	4.4	84.0	13.63
	1800	145TC	121875.00●	49	208-230/460	4.4	86.5	13.69
	1200	56HC	117278.00●	51	208-230/460	5.4	80.0	14.13
2	3600	145TC	121876.00●	49	208-230/460	5.2	85.5	13.69
	1800	56HC	117285.00●	50	208-230/460	5.6	84.0	13.63
	1800	145TC	121877.00●	50	208-230/460	5.6	86.5	13.69
3	3600	145TC	121878.00●	53	208-230/460	7.6	86.5	13.69
	1800	182TC	132206.00●	85	208-230/460	8.2	89.5	14.77
5	3600	184TC	132207.00●	90	208-230/460	12.0	88.5	14.77
	1800	184TC	132208.00●	96	208-230/460	13.0	89.5	15.27
7 1/2	3600	213TC	140825.00●	160	208-230/460	18.4	89.5	18.69
	1800	213TC	140826.00●	160	208-230/460	20.4	91.7	18.69
10	3600	215TC	140827.00●	165	208-230/460	24.0	90.2	18.69
	1800	215TC	140828.00●	173	208-230/460	26.0	91.7	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	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)	
1/3	1800	48C	103393.00●	25	208-230/460	1.3	70.5	9.83	
	1/2	3600	56C	117279.00●	35	208-230/460	1.6	82.5	12.04
		1800	48C	103394.00●	27	208-230/460	1.6	76.0	11.58
		1800	S56C	103389.00●	30	208-230/460	1.6	76.0	11.49
3/4	1800	56C	117270.00●	34	208-230/460	1.6	78.5	12.54	
	3600	56C	117280.00●	40	208-230/460	2.4	84.0	12.54	
	1800	S56C	103390.00●	33	208-230/460	2.3	77.0	12.50	
	1800	56C	117272.00●	40	208-230/460	2.3	80.0	13.04	
1	3600	56C	117281.00●	43	208-230/460	2.6	85.5	13.04	
	1800	56C	117274.00●	44	208-230/460	3.0	81.5	13.54	
	1800	56HC	117287.00●	45	208-230/460	3.1	82.5	13.13	
	1800	143TC	121796.00●	44	208-230/460	3.0	81.5	13.61	
	1800	143TC	G121659.00●	51	208-230/460	3.0	82.5	13.19	
	1 1/2	3600	143TC	G121560.00●	52	208-230/460	4.0	82.5	13.69
2	1800	56C	117282.00●	49	208-230/460	4.4	84.0	13.63	
	1800	145TC	G121525.00●	55	208-230/460	5.2	84.0	13.69	
	3600	145TC	G121561.00●	54	208-230/460	5.6	84.0	13.69	
3	1800	56C	117283.00●	49	208-230/460	5.6	84.0	13.63	
	1800	145TC	G121527.00●	60	208-230/460	5.6	84.0	13.69	
	3600	145TC	G121562.00●	55	208-230/460	7.6	85.5	13.69	
5	1800	182TC	G131923.00●	88	208-230/460	8.2	87.5	14.77	
	3600	184TC	G131949.00●	98	208-230/460	12.0	87.5	14.77	
10	1800	184TC	G131924.00●	102	208-230/460	13.0	87.5	15.27	

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

Catalog Numbers in Green are EPACT Motors. Specifications are subject to change without notice

SINGLE PHASE • TENV/TEFC • C FACE WITH BASE

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	56HC	116343.00●□	35	115/208-230	None	2.7	12.20
	3600	56HC	116344.00●□	38	115/208-230	None	3.8	12.20
1/2	1800	56HC	116345.00●□	38	115/208-230	None	3.3	12.70
	3600	56HC	116346.00●□	42	115/208-230	None	3.8	12.70
1	3600	56HC	116347.00●□	49	115/208-230	None	6.0	13.70
	1800	56HC	116348.00●□	49	115/208-230	None	4.5	13.70
1 1/2	3600	56HC	116482.00□	49	115/208-230	None	6.8	13.81
	1800	145TC	121622.00	53	115/208-230	None	7.4	14.81
2	3600	145TC	121623.00	57	115/208-230	None	8.8	14.81
	1800	145TC	121632.00	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	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
1/3	1800	56C	116349.00●	35	115/208-230	None	2.7	11.70
	3600	56C	116350.00●	38	115/208-230	None	3.3	12.70
3/4	1800	56C	116351.00●	42	115/208-230	None	3.8	12.70
1	1800	56C	116352.00●	49	115/208-230	None	4.5	13.70
1 1/2	1800	145TC	121624.00	53	115/208-230	None	7.4	14.87
2	1800	145TC	121633.00	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	SYM RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/2	1805	56C	3	116483.00●	59	208-230/460	1.6	78.5	15.85
	1	1805	56C	6	116484.00●	69	208-230/460	3.0	81.5

- These motors are totally enclosed, non-ventilated.

THREE PHASE • TEFC • JM PUMP

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1	1800	143JM	G121626.00	55	208-230/460	3.0	82.5	16.00
1 1/2	3600	143JM	G121627.00	55	208-230/460	4.0	82.4	16.00
	1800	145JM	G121628.00	56	208-230/460	4.4	84.0	16.00
2	3600	145JM	G121629.00	56	208-230/460	5.2	84.0	16.00
	1800	145JM	G121630.00	57	208-230/460	5.6	84.0	16.50
3	3600	145JM	G121631.00	57	208-230/460	7.6	85.5	16.50
	1800	182JM	G131996.00	85	208-230/460	8.2	87.5	16.20
5	3600	184JM	G131997.00	90	208-230/460	12.0	87.5	16.20
	1800	184JM	G131998.00	96	208-230/460	13.0	87.5	16.77
7 1/2	3600	213JM	G140740.00	160	208-230/460	18.4	88.5	16.81
	1800	213JM	G140741.00	162	208-230/460	20.4	89.5	19.81
10	3600	215JM	G140742.00	165	208-230/460	24.0	89.5	19.81
	1800	215JM	G140743.00	173	208-230/460	26.0	89.5	19.81

WATTSAVERe Motors Meet NEMA MG1 part 30 & 31.

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 WATTSAYER® 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

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

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