

Powerwash SXT Washdown Duty, 3-Phase, All Stainless Steel, Totally Enclosed Motors

3-Phase, C-Face, Footed (Rigid Base)

Features

- Suitable for use on VFD 10:1 Variable torque, 10:1 (TEFC) or 1000:1 (TENV) Constant Torque
- MAX GUARD™ Class F insulation system
- 1.15 Service Factor on sinewave, 1.0 Service Factor on VFD power
- Double-sealed ball bearings
- 303 stainless steel shaft with spring-loaded contact seals in each end (drive end only on TENV)
- 300 Series Stainless steel external construction: frame, end shields, conduit box, mounting base and hardware for superior corrosion resistance
- Internal corrosion resistant coatings on rotor and heavy polyester varnish on the stator
- 100% paint-free construction
- One-way condensation drains in each end shield and conduit box for all angle mounting
- Nitrile Buna-N gaskets and seals on conduit box, through bolts and end shields
- Rated 60/50 Hz, 190/380 volt at next lower horsepower
- Nameplate information laser etched on frame
- UL Recognized, CSA Certified and CE Mark
- IP55 Rating



marathon®
Motors

Motor Shipping Schedule *

Same or one day * **Up to 7 days** **Up to 10 days**

Color indicates shipping lead time in business days. Check stock status online.

* Certain heavy and oversized items can be shipped only via LTL. Check our website for current shipping method constraints by part number.

Applications

- Replaces 90 volt and 180 volt PMDC motors (when used with AC variable frequency drives)
- Typical uses include: machine tools, conveyors, packaging machines, batching machines, food and beverage equipment, pumps and fans.

Motor Specifications – Powerwash SXT Washdown Duty 3-Phase All Stainless Steel Totally Enclosed Motors

Part Number*	Price	HP	Base RPM	Volts	Encl.	NEMA Design	NEMA Frame	Model No.	F.L. Amps	Weight (lb)*	Footnotes
N499		1	1200	208-230 / 460 - 190 / 380	TEFC	B	145TC	145TTWD6077	3.8-3.8 / 1.9 - 3.4 / 1.7	40	
N410		1/3	1800	208-230 / 460	TENV		56C	056T17VD5326	1.2-1.3 / .65 & 1.2 / .60	30	
N411		1/2		208-230 / 460 - 190 / 380	TENV		56C	56T17VD5328 A	1.5-1.6 / 0.8 - 1.6 / 0.8	23.8	
N412		3/4		208-230 / 460 - 190 / 380	TENV		56C	56T17VD5327 A	2.4-2.3 / 1.15 - 2.0 / 1.0	31	
N414A		1		230 / 460 - 190 / 380	TEFC		143TC	143TTWD6026 AA	3.0 / 1.5 - 3.0 / 1.5	44.5	
N415A		1-1/2					56HC	56T17WD15329 A	4.4 / 2.2 - 3.8 / 1.9	46	5
N417A		2					56HC	56T17WD15328 A	5.4 / 2.7 - 5.0 / 2.5	52.6	5
N418A		2					145TC	145TTWD6029 AA	5.4 / 2.7 - 5.0 / 2.5	53.1	
N450		1/3		3600	208-230 / 460 - 190 / 380		TENV	56C	56T34VD5301 A	1.1-1.0 / 0.5 - 0.9 / 0.45	27
N451		1/2	56C					56T34VD5302 A	1.6-1.5 / 0.75 - 1.3 / 0.65	28	
N452		3/4	56C					56T34VD5303	2.2-2.0 / 1.0 - 1.7 / 0.85	30	
N454A		1	143TC					143TTWD6001	2.6 / 1.3 & 2.4 / 1.2	44	
N455A		1-1/2	230 / 460 - 190 / 380		TEFC		56HC	56T34WD15302 A	3.8 / 1.9 - 3.0 / 1.5	42	5
N456A		1-1/2	208-230 / 460 - 190 / 380				143TC	143TTWD6002 AA	4.2-4.4 / 2.2 - 3.0 / 1.5	42.5	
N457A		2					56HC	56T34WD15303 A	5.6-5.0 / 2.5 - 4.6 / 2.3	44.5	5
N458A		2					145TC	145TTWD6001 AA	5.6-5.0 / 2.5 - 5.2 / 2.6	45	

* Refer to the Motor Shipping Schedule table for shipping information.

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Footnotes: 5 = 56H, 143T, and 145T Combination Base with 12 mounting holes

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3-Phase, Footed (Rigid Base)

Performance Data

Performance Data – Powerwash SXT Washdown Duty 3-Phase All Stainless Steel Totally Enclosed Motors														
Part Number	HP	F.L. RPM	Min. RPM	F.L. AMPS @460V	N.L. AMPS @460V	F.L. Torque (lb-ft)	B.D. Torque (lb-ft)	Max. CHP RPM*	Max. Safe RPM	F.L. Effic.	F.L. Power Factor	Rotor Inertia (lb-ft ²)	Footnotes	
N410	1/3	1740	N/A**	.65	N/A**	16	72	N/A**	N/A**	78.5	63	N/A**	10:1 Variable Torque	
N499	1	1150	115	1.9	1.3	4.5	17.4		4000	82.5	60			
N411	1/2	1740	174	0.8	0.6	1.15	5.56		5400	81.5	68			
N412	3/4	1740	174	1.15	0.7	2.25	10.18			82.5	73			
N414A	1	1750	175	1.5	1	2.99	15.83	3600		85.5	71.5			
N415A	1-1/2	1750	175	2.2	1.3	4.513	21.05		4000	86.5	73.5			
N417A	2	1750	175	2.7	1.4	5.981	25.44			86.5	80			
N418A	2	1750	175	2.7	1.4	5.981	25.44			86.5	80			
N450	1/3	3450	345	0.5	0.3	8.2	24			74	84.7			0.028
N451	1/2	3450	345	0.75	0.3	12.2	38.7	5400	7200	77	83			0.03
N452	3/4	3450	345	1.0	0.5	1.11	2.55			78.5	86	N/A**	10:1 Variable Torque	
N454A	1	3450	N/A**	1.3	1/5	24.3	76.3	N/A**	N/A**	80	89.5			
N455A	1-1/2	3510	351	1.9	0.8	2.238	9.81	2700	4000	84	88			
N456A	1-1/2	3510	351	1.9	0.8	2.238	9.81	5400	7200	84	88			
N457A	2	3490	349	2.5	0.9	3.001	11.84	2700	4000	85.5	87.5			
N458A	2	3450	345	2.5	0.9	3.001	11.84	2700	4000	85.5	87.5			

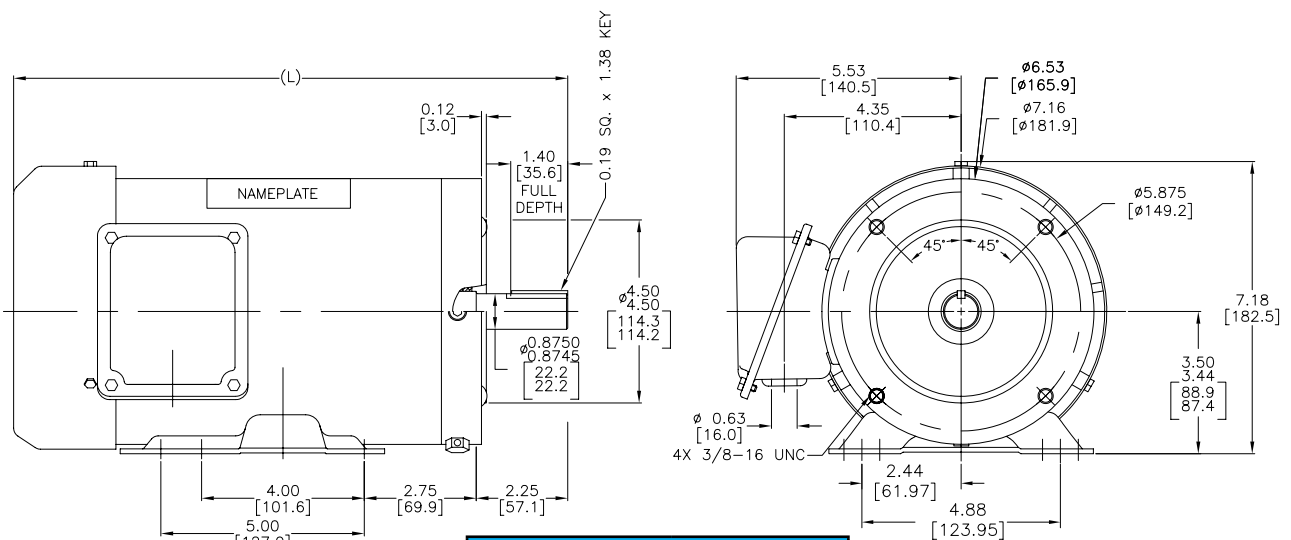
* Maximum Constant HP RPM is for direct-coupled loads.
 ** Data not available from manufacturer

See our website: www.AutomationDirect.com for complete engineering drawings.

Dimensions

in [mm]

Figure 1 – N414A, N418A, N456A, N458A, N499 Dimensions



Motor Dimensions (inches)	
Part Number	Length (L)
N414A	13.9
N418A	14.3
N456A	13.7
N458A	13.7
N499	13.9

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Dimensions

3-Phase, Footed (Rigid Base)

in [mm]

Figure 2 – N411, N412, N450, N451, N452 Dimensions

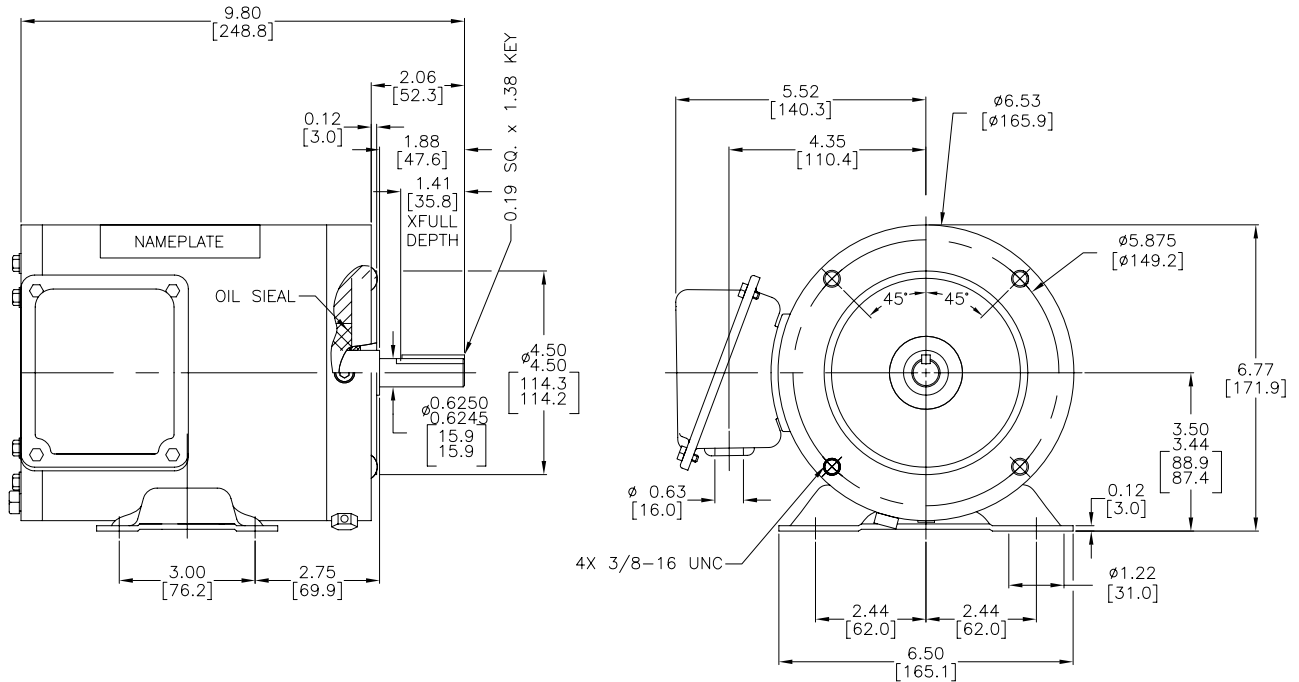
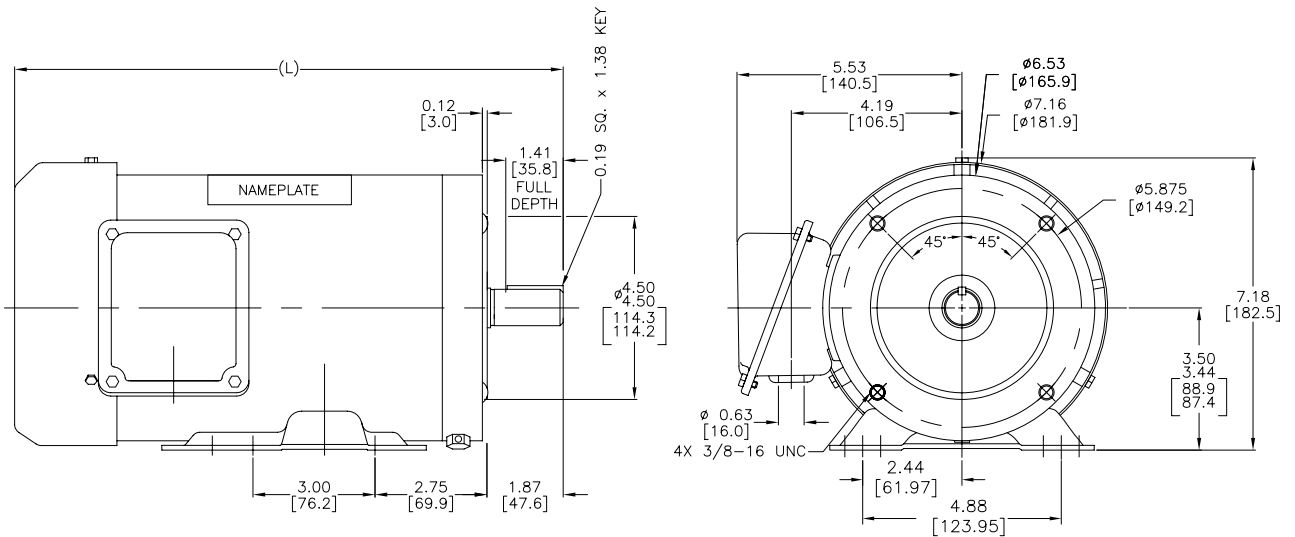


Figure 3 – N415A, N417A, N455A, N457A Dimensions



Motor Dimensions (inches)	
Part Number	Length (L)
N415A	13.6
N417A	14.0
N455A	13.6
N457A	13.6