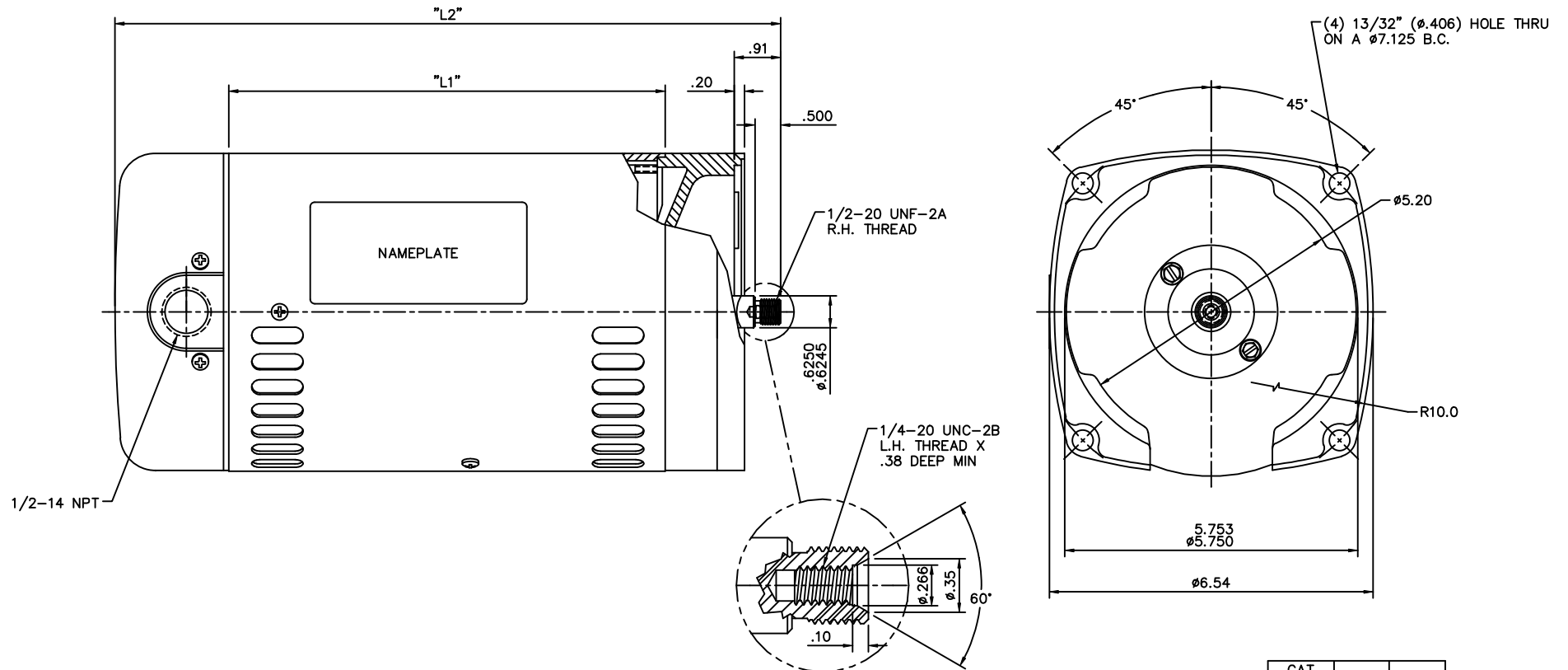


Leeson Single Phase Electric Motor**MST1102.00**

Type:	Pool and Jet Pump
Horsepower:	1
RPM:	3600
Rotation:	Clockwise
Frame size:	56Y
Enclosure:	ODP
Mounting:	Face
Connection box:	Side
Shaft diameter:	0.625"
Shaft type:	Smooth Shaft w/ .406 Threaded Tip
Shaft height (from base):	N/A
Overall length:	12.9"
Overall height:	6.54"
Bearing type:	Double sealed bearings
Frame material:	Rolled steel
Phase:	Single
kW:	0.746
Voltage:	115/230
Amps (full load):	5.1
Frequency (Hz):	60 Hz
Service factor:	1.5
Duty cycle:	Continuous-use rated
Full load efficiency:	65%
Integrated overload protection:	Yes
Face type:	Square flange
Bolt circle diameter (centerline):	7.125"
Number of holes:	4
Integrated Base:	No
Agency Approvals:	UL Listed (E49747), CSA Approved (LR2025)
Warranty:	12 months from date of installation or 18 months from date of manufacture
Weight (pounds):	29
LxWxH (inches):	12.9 x 6.54 x 6.54

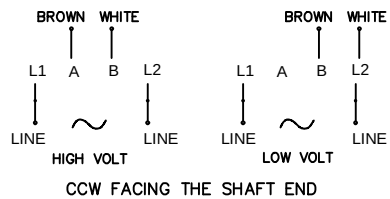




SHAFT DETAIL
3X SCALE

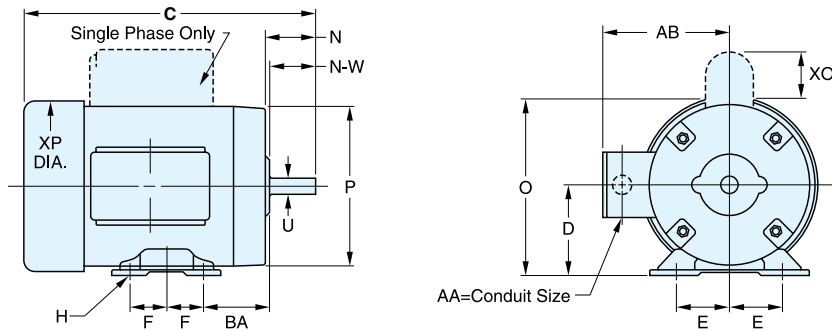
SHAFT MATERIAL:
300 STAINLESS STEEL

CAT NO.	"L1"	"L2"
MST1052	7.30	11.92
MST1072	8.28	12.90
MST1102	9.27	13.89



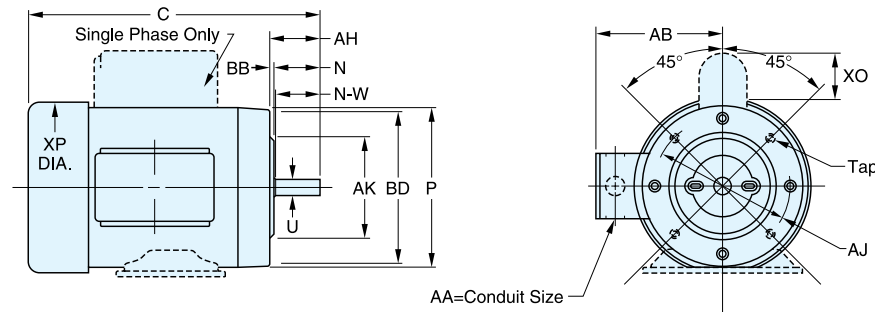
				TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN CJK 8/1/02	
				DEC.	INCHES	LEESON		CHK	
				.X	±.1			APPD	ADS 8/5/02
02	REDRAWN, 1/4-20 L.H. THD WAS R.H., 7.125 B.C. WAS	RDW	4/4/05	.XX	±.03	TITLE		SCALE 1=2	
	Ø6.9, Ø.406 WAS Ø.4, ADDED Ø5.743/5.750, &			.XXX	±.005	OUTLINE - 56Y FRAME		REF	
	.91, UPDATED CENTER DRILL DIMS			.XXXX	±.0005	DRIP PROOF - SQUARE FLANGE MOUNT		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH		PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP		CAD FILE	16988600	SIZE	DRAWING NO.
				DIST				B	169886-00
									REV. 02

RIGID MOUNT



The condensed dimensions shown on these pages are for general reference only and are not for construction. The overall length or "C" dimension for each catalog item is included in this catalog. **Certified drawings of all ratings are available for construction purposes.**

C FACE



NEMA S SHAFT AND KEYWAY DIMENSIONS (Inches)

NEMA SHAFT (U)	KEYWAY DIMENSIONS (R)	KEYWAY DIMENSIONS (S)	NEMA SHAFT (U)	KEYWAY DIMENSIONS (R)	KEYWAY DIMENSIONS (S)
3/8	21/64	FLAT	1-7/8	1-19/32	1/2
1/2	29/64	FLAT	2-1/8	1-27/32	1/2
5/8	33/64	3/16	2-3/8	2-1/64	5/8
7/8	49/64	3/16	2-1/2	2-3/16	5/8
1-1/8	63/64	1/4	2-7/8	2-29/64	3/4
1-3/8	1-13/64	5/16	3-3/8	2-7/8	7/8
1-5/8	1-13/32	3/8	3-7/8	3-5/16	1

■ S is keyway width.
U minus R is keyway depth.

NEMA STEEL FRAME DIMENSIONS (Inches)

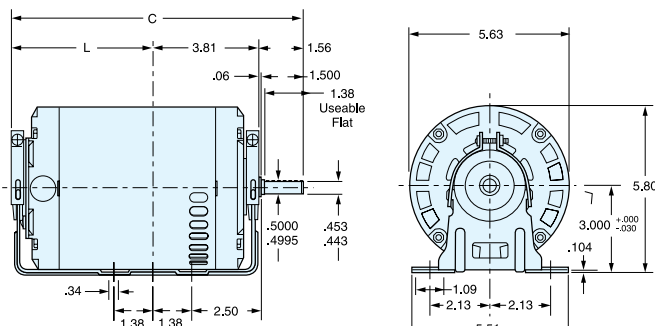
Frame Size ▲	D	E	F	H	N	O	P	U	N-W	AA	AB	AH	AJ	AK	BA	BB	BD	XO	XP	TAP **	KEY
42	2 ⁵ / ₈	1 ³ / ₄	27 ³ / ₃₂	9 ³ / ₃₂ Slot	1 ³ / ₁₆	5 ¹ / ₁₆	4 ⁷ / ₈	3 ³ / ₈	1 ¹ / ₈	3 ³ / ₈	4 ¹ / ₂	1 ⁵ / ₁₆	3 ³ / ₄	3	2 ¹ / ₁₆	1 ¹ / ₈	4 ⁷ / ₈	1 ⁵ / ₈	5 ¹ / ₈	1 ¹ / ₄ -20	3 ³ / ₆₄ Flat
48	3	2 ¹ / ₈	1 ³ / ₈	11 ¹ / ₃₂ Slot	1 ⁹ / ₁₆	5 ¹³ / ₁₆	5 ¹⁹ / ₃₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	4 ⁷ / ₈	1 ¹¹ / ₁₆	3 ³ / ₄	3	2 ¹ / ₂	1 ¹ / ₈	5	2 ¹ / ₄	5 ⁷ / ₈	1 ¹ / ₄ -20	3 ³ / ₆₄ Flat
S56	3 ¹ / ₂	2 ⁷ / ₁₆	1 ¹ / ₂	11 ¹ / ₃₂ Slot	1 ¹⁵ / ₁₆	6 ⁵ / ₁₆	5 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ⁷ / ₈	1 ¹ / ₂	4 ⁷ / ₈	2 ¹ / ₁₆	5 ⁷ / ₈	4 ¹ / ₂	2 ³ / ₄	1 ¹ / ₈	6 ¹ / ₂	2 ¹ / ₄	5 ⁷ / ₈	3 ³ / ₈ -16	3 ³ / ₁₆
56						6 ¹³ / ₁₆	6 ¹⁹ / ₃₂				5 ⁵ / ₁₆								7 ⁵ / ₃₂		
143T	3 ¹ / ₂	2 ³ / ₄	2	11 ¹ / ₃₂	2 ³ / ₈	6 ¹³ / ₁₆	6 ¹⁹ / ₃₂	7 ⁷ / ₈	2 ¹ / ₄	3 ³ / ₄	5 ⁵ / ₁₆	2 ¹ / ₈	5 ⁷ / ₈	4 ¹ / ₂	*2 ¹ / ₄	1 ¹ / ₈	6 ¹ / ₂	2 ¹ / ₄	7 ⁵ / ₃₂	3 ³ / ₈ -16	3 ³ / ₁₆
145T			2 ¹ / ₂																		
182T	4 ¹ / ₂	3 ³ / ₄	2 ¹ / ₄	13 ¹ / ₃₂	2 ⁷ / ₈	8 ³ / ₄	8 ¹⁵ / ₃₂	1 ¹ / ₈	2 ³ / ₄	3 ³ / ₄	6 ⁷ / ₁₆	2 ⁵ / ₈	7 ¹ / ₄	8 ¹ / ₂	*2 ³ / ₄	1 ¹ / ₄	8 ⁷ / ₈	2 ¹ / ₄	9 ⁷ / ₃₂	1 ¹ / ₂ -13	1 ¹ / ₄
184T			2 ³ / ₄																		
S213T			2 ³ / ₄		3 ¹ / ₂	9 ²⁷ / ₃₂	8 ¹³ / ₃₂										8 ⁷ / ₈		9 ⁷ / ₃₂		
213T	5 ¹ / ₄	4 ¹ / ₄	2 ³ / ₄	13 ¹ / ₃₂	—	10 ⁵ / ₈	9 ²¹ / ₃₂	1 ³ / ₈	3 ³ / ₈	3 ³ / ₄	7 ⁷ / ₃₂	3 ¹ / ₈	7 ¹ / ₄	8 ¹ / ₂	*3 ¹ / ₂	1 ¹ / ₄	8 ⁵ / ₈	2 ¹ / ₄	10 ¹³ / ₁₆	1 ¹ / ₂ -13	5 ¹ / ₁₆
215T			3 ¹ / ₂																		

* 143-5TC NEMA C face BA dimension is 2³/₄". 182-4TC NEMA C face BA dimension is 3¹/₂". 213-5TC NEMA C face BA dimension is 4¹/₄".

** 326TC and smaller have 4 mounting holes in NEMA C face, 364TC and larger have 8 mounting holes.

▲ Blue shading denotes dimensions established by NEMA standard MG1, others are unique to LEESON, and will vary with each manufacturer.

Split-Phase Motors - 191868, 191869 & 191870 (page 111)



Pedestal Fan Motors (page 111)

Note: Motors with U = .625 have a 3/16" keyway.

