PRODUCT INFORMATION PACKET

Model No: SRF4S1T61Q40
Catalog No: LM22660
1,1800,TEFC,56,3/60/230/460
4:1 Speed Ratio

Product Information Packet: Model No: SRF4S1T61Q40, Catalog No:LM22660 1,1800,TEFC,56,3/60/230/460

Nameplate Specifications

Output HP	**1 Hp**	Output KW	**0.75 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**3.6/1.8 A**	Speed	**1725 rpm**
Service Factor	**1**	Phase	**3**
Efficiency	**77 %**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**INV**
KVA Code	**L**	Frame	**56**
Enclosure	**Totally Enclosed Fan Cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**203**
Opp Drive End Bearing Size	**203**	UL	**Recognized**
CSA	**Y**	CE	**N**
IP Code	**43**		

Technical Specifications

Electrical Type	**Squirrel Cage Inverter Duty**	Starting Method	**Inverter Only**
Poles	**4**	Rotation	**Reversible**
Mounting	**Rigid base**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**Rolled Steel**	Shaft Type	**NEMA 56**
Overall Length	**12.32 in**	Frame Length	**7.06 in**
Shaft Diameter	**0.625 in**	Shaft Extension	**1.88 in**
Assembly/Box Mounting	**F1 ONLY**		
Outline Drawing	**A-100086LN-706**	Connection Diagram	**A-EE7308T-LN**

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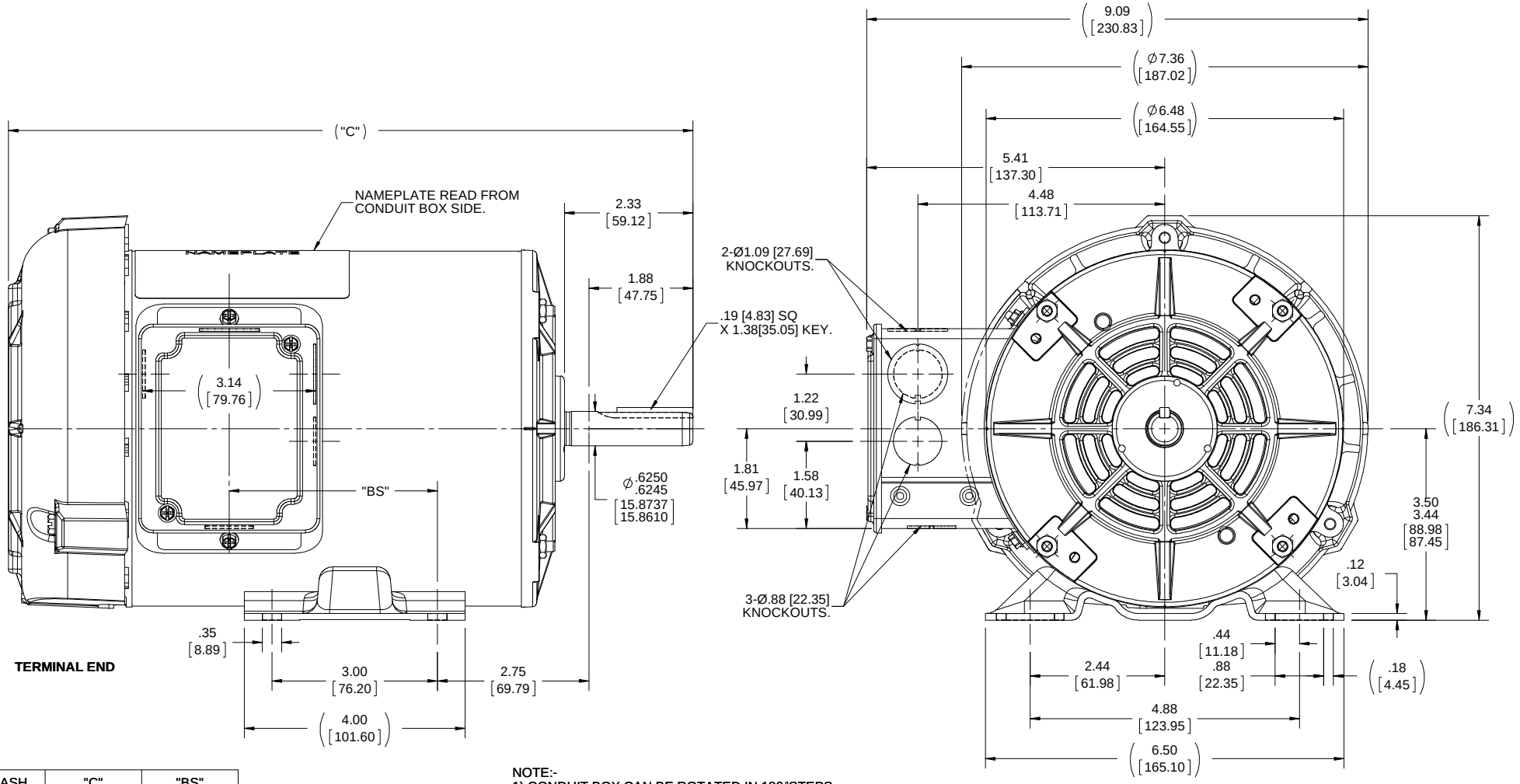


DASH	"C"	"BS"
606	11.41 [289.81]	2.78 [70.61]
656	11.91 [302.51]	3.28 [83.31]
706	12.41 [315.21]	3.78 [96.01]
756	12.91 [327.91]	4.28 [108.71]
806	13.41 [340.61]	4.78 [121.41]
856	13.91 [353.31]	5.28 [134.11]
906	14.41 [366.01]	5.78 [146.81]

NOTE:-
1) CONDUIT BOX CAN BE ROTATED IN 180°STEPS.

DRAWING REVISION	REVISION BY	DATE
C	A.SUPPANNAVAR	02/26/2018
ECO	APPROVED BY	DATE
ECO-0143026	PST	04/11/2018

ECO DESCRIPTION
OUTLINE CONVERSION PROJECT

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45 °
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY	BLR
DATE	06-07-1999
APPROVED BY	
DATE	
REFERENCE	100086LN
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
56 FR.-TEFC

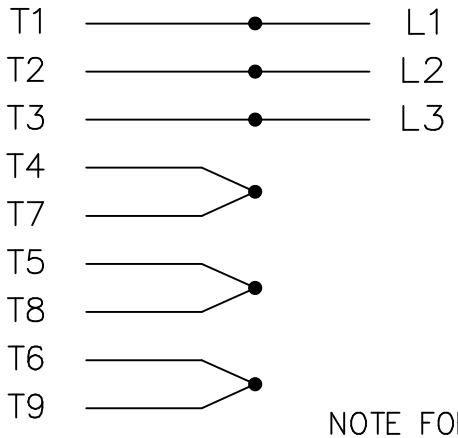
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	100086LN	1 OF 1

EE7308T-LN

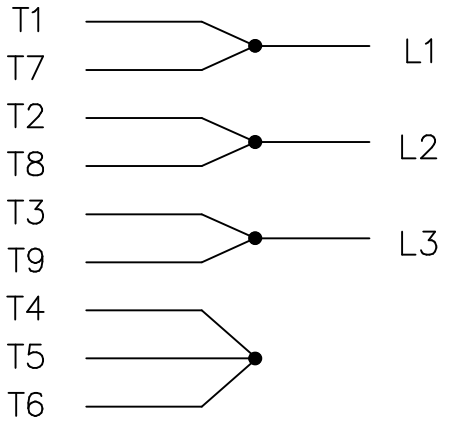
THREE PHASE
DUAL VOLTAGE MOTOR

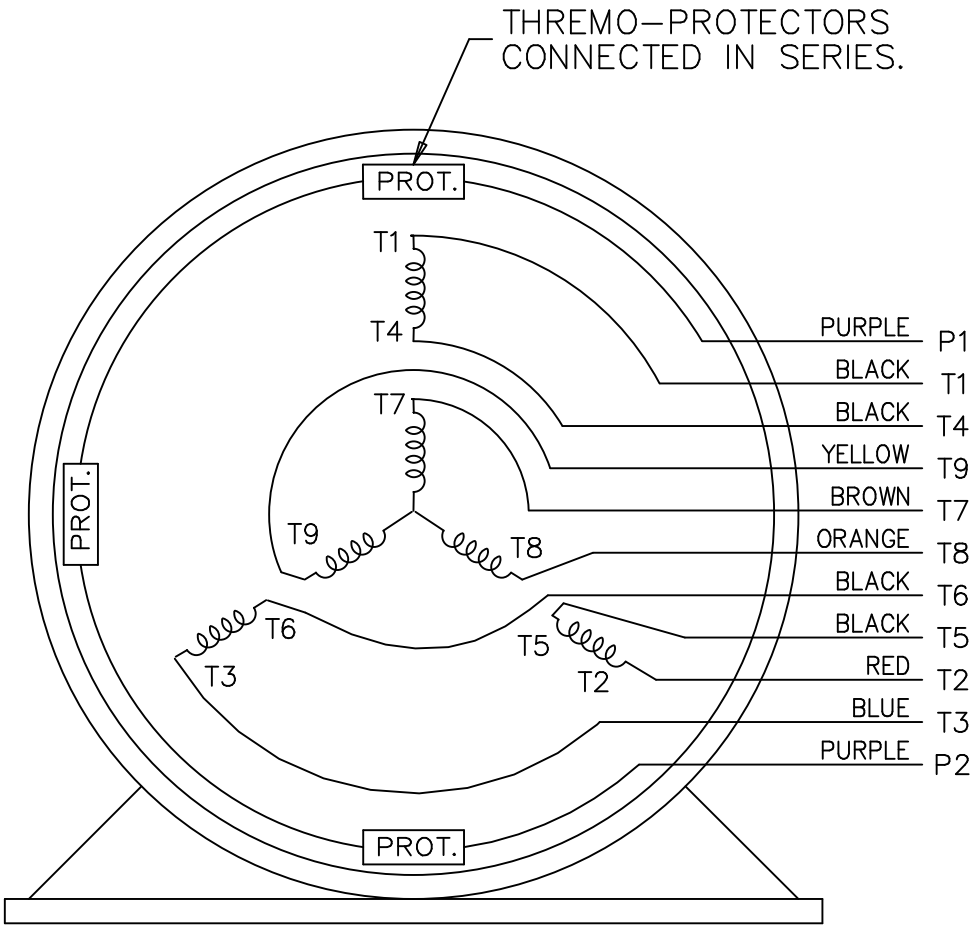
HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE





VIEW OF TERMINAL END

NO.	REVISION	BY & DATE	CHK
2	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML
1	NEW DRAWING	BJK 07-18-2002	DRS

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3 PHASE – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE ee7308t_ln

RFP

DIST LB

DRAWN BJK 07-16-2002
CHK DRS 07-18-2002
APPD GK 07-18-2002
SCALE 1=1
REF
FMF
PREV

SIZE	DRAWING NO.	PAGE	OF	REV.
A	EE7308T-LN			2

LEESON®

CERTIFICATION DATA SHEET

2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810

CONN. DIAGRAM: A-EE7308T-LN

OUTLINE: A-100086LN-706

CATLOG # : LM22660

WINDING #: ZT406 R6 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	0.75	1800	1725	56	TEFC	L	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	3.6/1.8	INVERTER ONLY	CONTINUOUS	F3	1.0	40

FULL LOAD EFF:	77	3/4 LOAD EFF:	77	1/2 LOAD EFF:	73.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	68.4	3/4 LOAD PF:	57.5	1/2 LOAD PF:	45	74	SQ CAGE INV DUTY

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	25 / 12.5	10.2 LB-FT 340 %	12.5 LB-FT 417 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.056 LB-FT^2	- LB-FT^2	- SEC.	-	26 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
203	203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*** N O T E S ***

INVERTER TORQUE: CONSTANT 4:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
FT-LB V NONE Hz

7/20/2018

Data Sheet

Date: 1/18/2018

LEESON

LM22660

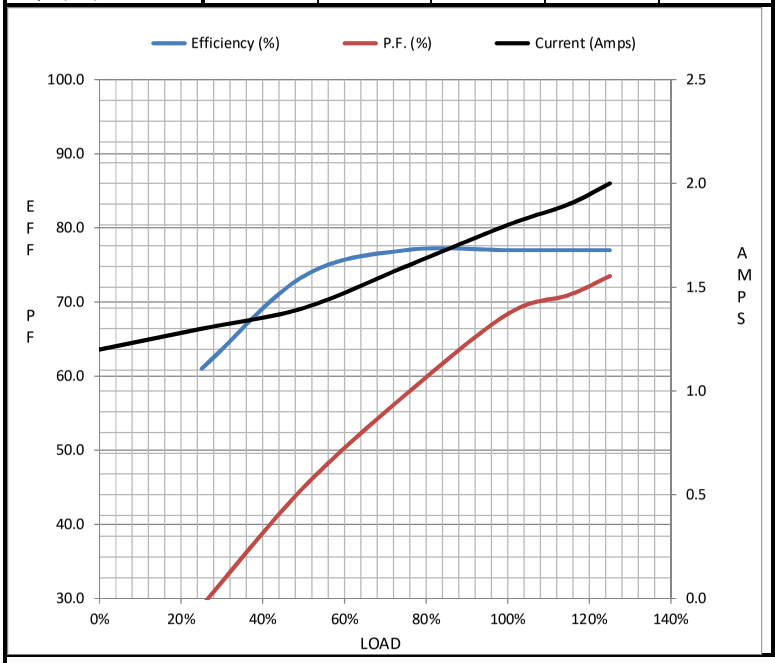
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.20	1.30	1.40	1.60	1.80	1.90	2.00	12.5	
Torque (ft-lb)	0.00	0.74	1.50	2.20	3.0	3.4	3.8	10.2	
RPM	1800	1785	1775	1755	1730	1,726	1720	0	
Efficiency (%)		61.0	73.5	77.0	77.0	77.0	77.0		
P.F. (%)	11.5	29.0	45.0	57.5	68.4	71.0	73.5	73.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	500	1180	1730	1800
Current (Amps)	12.5	11.5	8.2	1.80	1.20
Torque (ft-lb)	10.2	8.8	12.5	3.0	0.00



Information Block

HP	1.0	
Sync. RPM	1800	
Frame	143	
Enclosure	TEFC	
Construction	TFR	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	L	
Service Factor	1.0	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.06	Lb-Ft²
Ref Wdg	ZT406 R6	
Sound Pressure @ 1M	62	dBA
VFD Rating	CONSTANT 4:1	
Outline Dwg	A-100086LN-706	
Conn. Diag	A-EE7308T-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
11.0110	7.6910	12.6290	9.0530	204.6200

Speed -Torque Curve