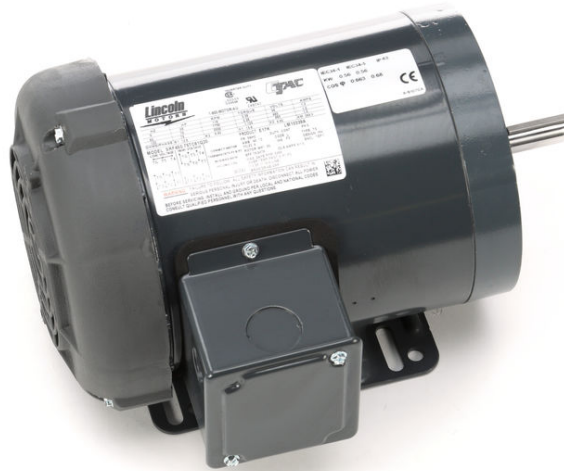


# PRODUCT INFORMATION PACKET



Model No: SRF4S0.75TC61Q20  
Catalog No: LM10339  
3/4,1800,TEFC,56HC,3/60/230/460  
2000:1 With Encoder Provision



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### Nameplate Specifications

Output HP	<b>0.75 Hp</b>	Output KW	<b>0.56 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>3.0/1.5 A</b>	Speed	<b>1725 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>75.5 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>INV</b>
KVA Code	<b>L</b>	Frame	<b>56HC</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>203</b>
Opp Drive End Bearing Size	<b>203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>43</b>		

### Technical Specifications

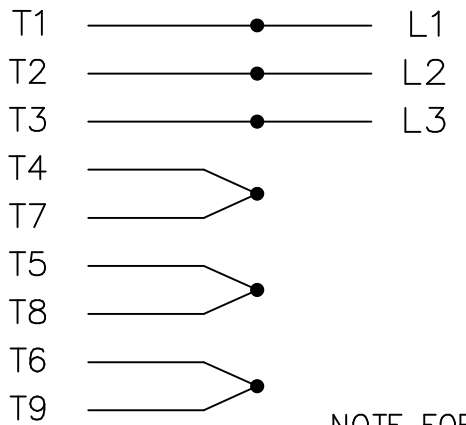
Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>HORIZONTAL</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>NEMA 56</b>
Overall Length	<b>11.82 in</b>	Frame Length	<b>6.56 in</b>
Shaft Diameter	<b>0.625 in</b>	Shaft Extension	<b>1.88 in</b>
Assembly/Box Mounting	<b>F1 ONLY</b>		
Outline Drawing	<b>A-100109LN-656</b>	Connection Diagram	<b>A-EE7308T-LN</b>

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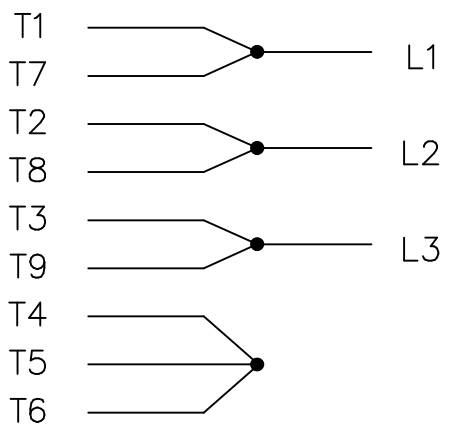
THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

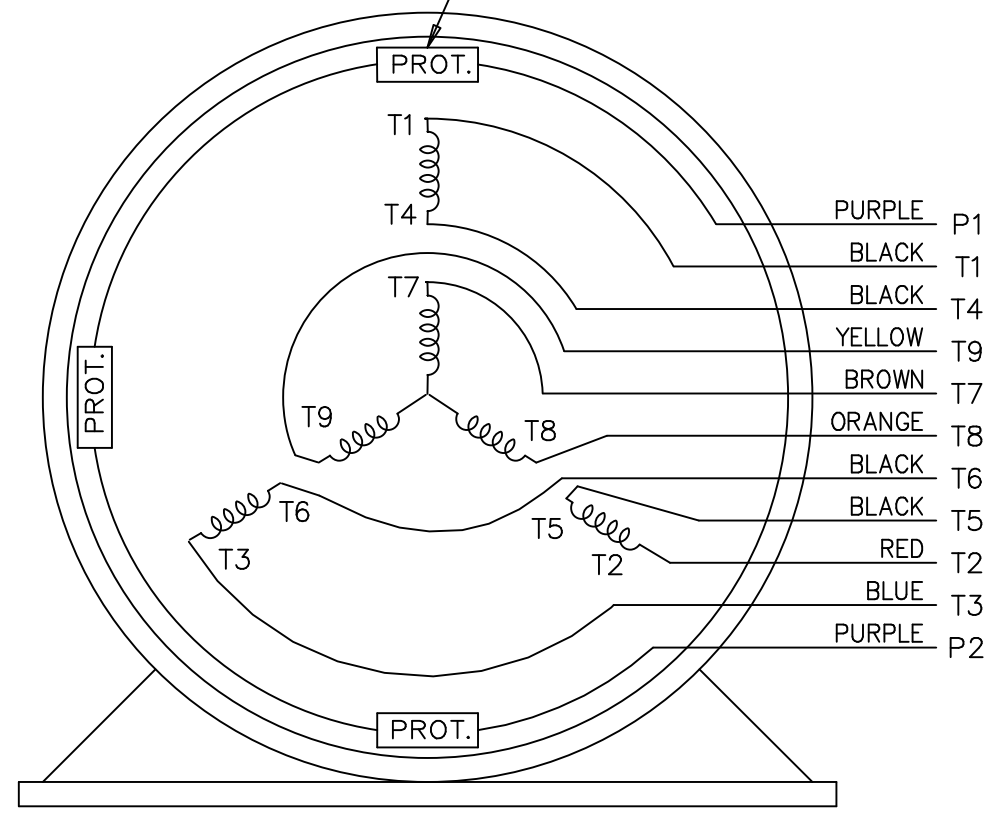


NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST FOR COMMON CONNECT:  
HIGH VOLT: CONNECT P1 TO T1  
THEN P2 TO L1  
LOW VOLT: CONNECT P1 TO T1 & T7,  
THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BJK 07-16-2002					
				DEC.	INCHES		CHK DRS 07-18-2002					
				.X	±.1		APPD GK 07-18-2002					
				.XX	±.02	TITLE CONNECTION DIAGRAM			SCALE 1=1			
2 ADDED COLORS TO "T & P" LEADS CN 40494 MSG 08-08-2006				ML	.XXX	±.005	3 PHASE - DUAL VOLTAGE MOTOR			REF		
1 NEW DRAWING BJK 07-18-2002				DRS	.XXXX	±.0005	MAT'L.			FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"		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 ee7308t_ln			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	LB			A	EE7308T-LN			2



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308T-LN

OUTLINE: A-100109LN-656

CATALOG #: LM06103

WINDING #: ZT411 R18 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
3/4&3/4	0.56&0.56	1800	1725&1425	56HC	TEFC	L	INV	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB °C
3	60/50	230/460&200/400	3/1.5&3/1.5	INVERTER ONLY	CONTINUOUS	F3	1.0/1.0	40

FULL LOAD EFF:	75.5&8.78	3/4 LOAD EFF:	74	1/2 LOAD EFF:	71	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	66.3&8.68	3/4 LOAD PF:	57	1/2 LOAD PF:	45.5	72	SQ CAGE INV DUTY
F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE °C			
2.28 LB-FT	19 / 9.5	8.2 LB-FT	360 %	10 LB-FT	439 %	45	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 DBA	72 DBA	0.05 LB-FT^2	0 LB-FT^2	0 SEC.	0	25 LBS.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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

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

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

INVERTER TORQUE: CONSTANT 2000:1  
 INV. HP SPEED RANGE: NONE

ENCODER: NONE  
 NONE NONE  
 NONE NONE PPR

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

\*  
 N  
 O  
 T  
 E  
 S  
 \*



Motor Load Data

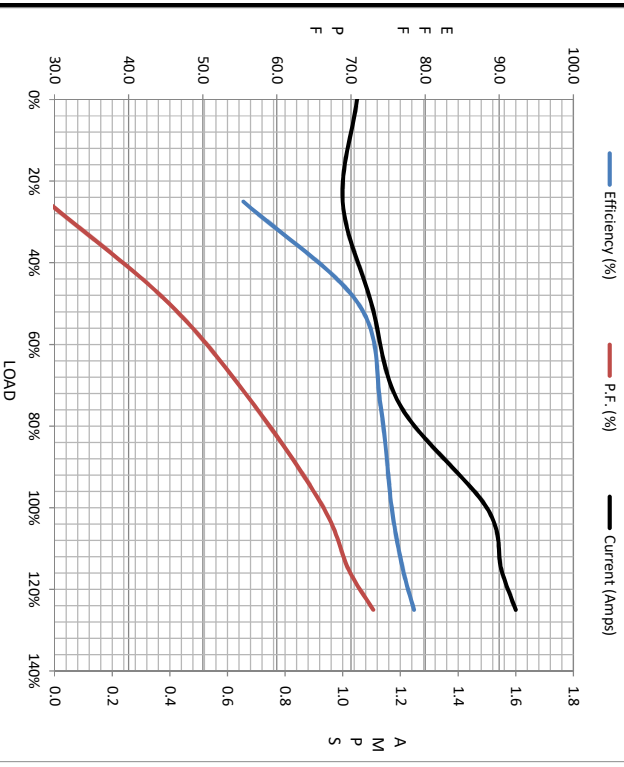
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.05	1.00	1.10	1.20	1.50	1.55	1.60	9.5
Torque (ft-lb)	0.00	0.52	1.15	1.65	2.28	2.57	2.85	8.2
RPM	1800	1786	1772	1760	1730	1,728	1,725	0
Efficiency (%)		55.5	71.0	74.0	75.5	77.0	78.5	
P.F. (%)	13.0	29.0	45.5	57.0	66.3	69.7	73.0	40.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1730	1800
Current (Amps)	9.5	8.6	6.7	1.50	1.05
Torque (ft-lb)	8.2	8.0	10.0	2.28	0.00

Information Block

HP	0.8			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#200/400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	41 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.05 LB-Ft <sup>2</sup>			
Ref Wdg	Z1411 C			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	A-100109LN-656			
Conn. Diag	A-EE7308T-LN			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
12.8520	9.8280	13.6080	9.8280	265.3560



Speed - Torque Curve

