

PRODUCT INFORMATION PACKET



Model No: LM16759

Catalog No: LM16759

General Purpose Motor, 10 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190-208/380-415 V, 1200 & 1000 RPM,
256TC Frame, TEFC



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Nameplate Specifications

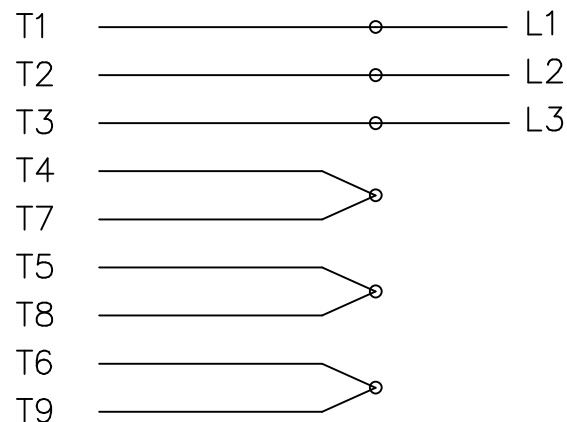
Phase	3	Output HP	10 & 10 Hp
Output KW	7.5 & 7.5 kW	Voltage	230/460 & 190-208/380-415 V
Speed	1176 & 965 rpm	Service Factor	1.25 & 1.0
Frame	256TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	26.2/13.1 & 31-29/15.5-14.5 A	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

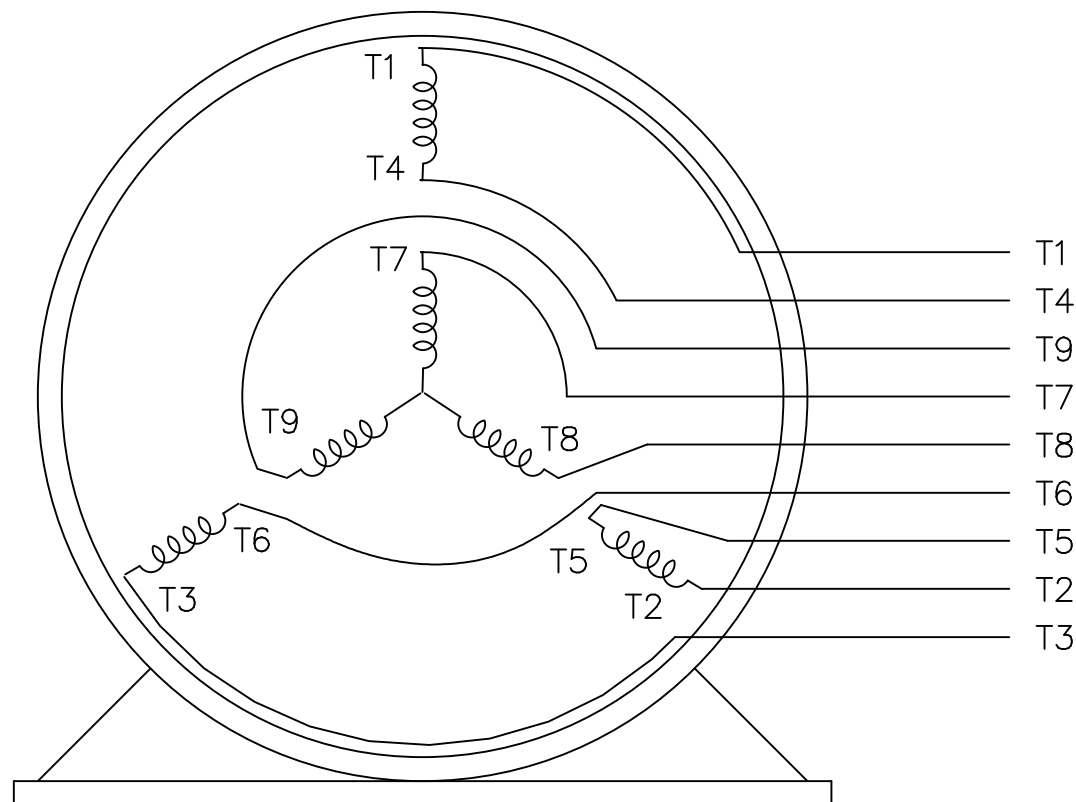
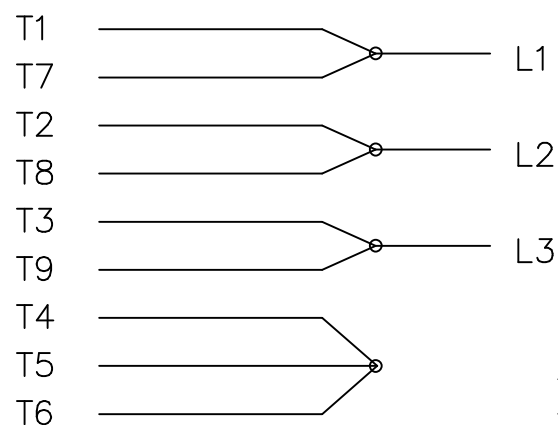
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.934 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	25.75 in
Frame Length	13.75 in	Shaft Diameter	1.625 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7308-LN	Outline Drawing	SS321103LN-1375

THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 06/11/1999			
				DEC.	INCHES		CHK ML 06/18/1999			
				.X	±.1		APPD GK 06/18/1999			
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XX	±.02	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR			SCALE 1=1	
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK	.XXX	±.005				REF	
1	NEW DRAWING	BLR 06/18/1999	GK	.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 EE7308LN		SIZE	DRAWING NO. PAGE OF	REV.
				DIST WP				A	EE7308-LN	3



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308-LN
OUTLINE: B-SS321103LN-1375
WINDING: 256674

CAT #: LM16759

R16 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1200	1176	256TC	TEFC	TFY	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190-208/380-415	26.2/13.1&31-29/15.5-14.	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.0	1/2 LD EFF	90.2	GTD EFF		ELECT. TYPE	
F.L. PF	79.0	3/4 LD PF	72.5	1/2 LD PF	61.0	90.2		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
44.7 LB-FT	81.0	92.0 LB-FT 206%	139 LB-FT 311%	40	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
56 dBA	65 dBA		3.0 LB-FT²	225 LB-FT²	20 SEC.	2	450 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
6309 6208						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.571	0.491	2.238	2.513	43.168	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/11/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/11/2018

LM16769



Data @ 460 V

Motor Load Data

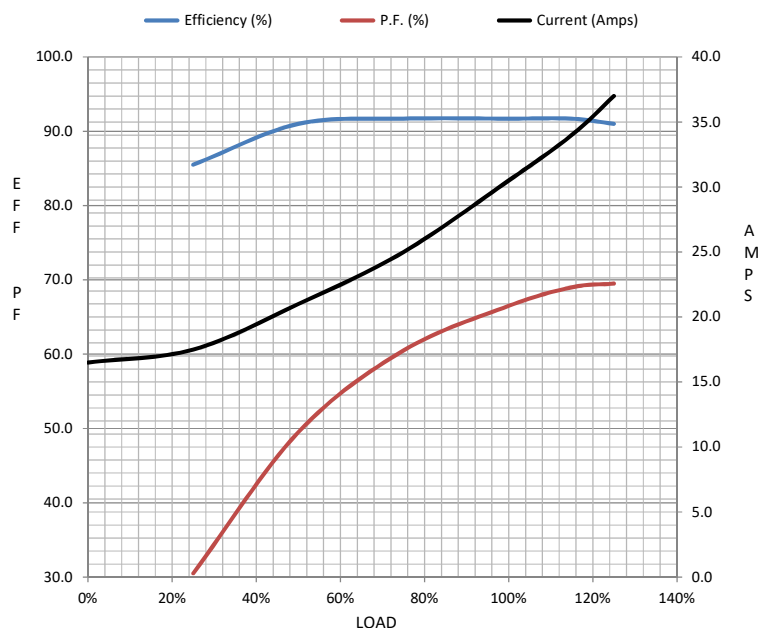
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.5	17.5	21.0	25.0	30.5	34.0	37.0	136	
Torque (ft-lb)	0.00	22.0	44.1	66.0	89.0	103	112	212	
RPM	1200	1196	1192	1187	1182	1,178	1176	0	
Efficiency (%)		85.5	91.0	91.7	91.7	91.7	91.0		
P.F. (%)	4.2	30.5	49.5	60.5	66.5	69.0	69.5	45.8	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1100	1182	1200
Current (Amps)	136	127	75.0	30.5	16.5
Torque (ft-lb)	212	177	190	89.0	0.00

Information Block

HP	20.0			
Sync. RPM	1200			
Frame	286			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#380-415	V		
Frequency	60	Hz		
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	67	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L2866013	NONE		
Sound Pressure @ 1M	68	dBA		
VFD Rating	NONE			
Outline Dwg	XF5F1SC1-1525			
Conn. Diag	3A217-15			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0610	0.0380	0.2660	0.6050	3.9290



Speed - Torque Curve

