PRODUCT INFORMATION PACKET

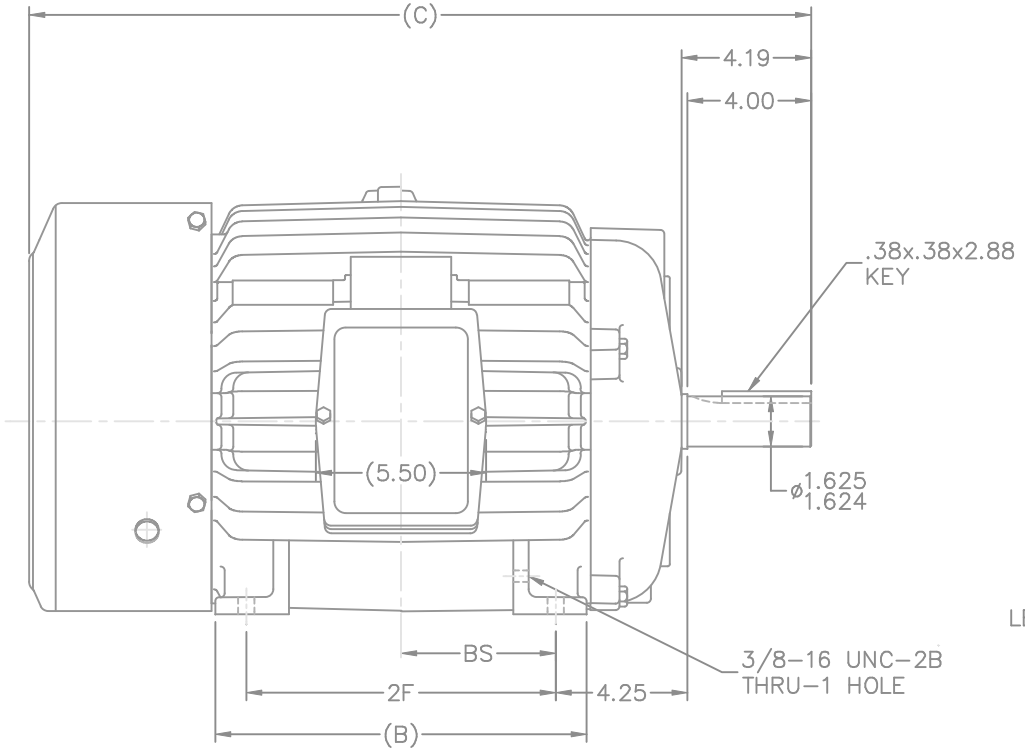
Model No: 811554.00
Catalog No: 811554.00
15 HP Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 254T Frame, TEFC
Severe Duty Motors

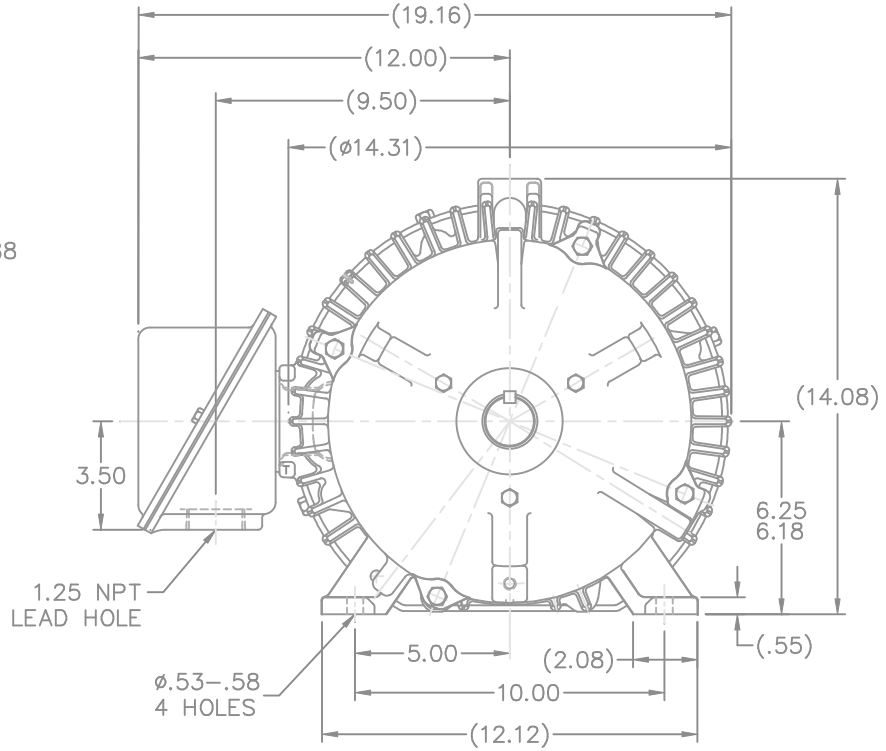
Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	460 V
Current	17.5 A	Speed	3550 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	254T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	309	Opp Drive End Bearing Size	210
UL	Recognized	CSA	N
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.603 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	23.52 in
Frame Length	10.50 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS203002LE-1050	Connection Drawing	A-EE7300-LE





NOTES:
1. BOX CAN BE ROTATED ON ITS AXIS.
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	BS
1050	254T	10.25	23.52	8.25	4.12
1225	256T	12.00	25.27	10.00	5.00

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE OUTLINE
250 FR. – BB – TS – STD.

MAT'L.
FINISH
CAD FILE ss203002LE
RFP 08–17–2007
DIST LB

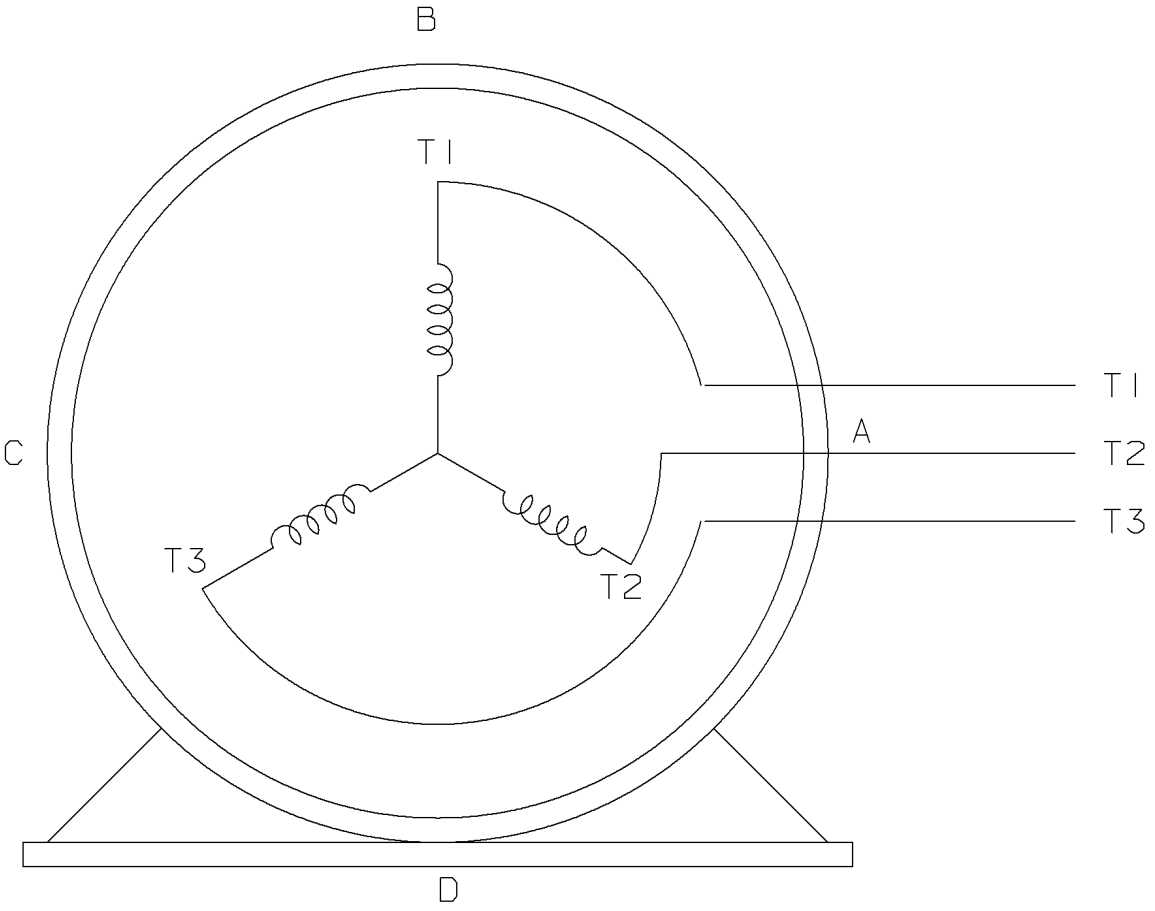
DRAWN	RJW 08–17–2007
CHK	ML 08–17–2007
APPD	DR 08–17–2007
SCALE	1=4
REF	
FMF	MU81054
PREV	

SIZE B | DRAWING NO. SS203002LE | PAGE OF | REV.

A-EE7300-LE

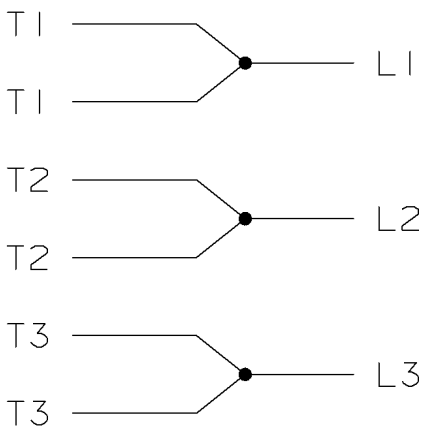
THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A-9806 DECAL

					TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN MSG 05-22-2002
					DEC.	TOLERANCE			CHK ML 05-22-2002
					.X	±.1			APPD GK 05-22-2002
					.XX	±.02	TITLE CONNECTION DIAGRAM SINGLE VOLT - 3Ø MOTOR		SCALE
					.XXX	±.005			REF
1	NEW DRAWING	MSG	05-22-2002	ML	.XXXX	±.0005	√ SURFACE ROUGHNESS UNLESS SPECIFIED	MAT'L.	FMF
NO.	REVISION	BY	DATE	CHK	ANG	± 7'30'		FINISH	PREV

PURCHASED	CAD FILE EE7300-LE	SHOP BOOK	SIZE	DRAWING NO.	REV.
DIST ~~WA~~ - LB - WP - ~~LM~~ - ~~BR~~ - ~~BY~~			A	EE7300-LE	I

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LEESON®

CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CATALOG #: 811554.00

CONN. DIAGRAM: A-EE7300-LE

OUTLINE: B-SS203002LE-1050

MOUNTING: F1/F2 CAPABLE

WINDING #: K256289 7

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15	11.2	3600	3550	254T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	17.5	LINE OR INVERTER	CONTINUOUS	F3	1.15	40

FULL LOAD EFF:	91.7	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	90.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	85	3/4 LOAD PF:	83.5	1/2 LOAD PF:	75.5	91	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.2 LB-FT	116	41 LB-FT 185 %	65 LB-FT 293 %	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	1.1 LB-FT^2	22 LB-FT^2	20 SEC.	2	310 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2	FALSE	NONE	GREEN - LEESON (EPOXY)

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)	CAST IRON
309	210						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 20:1
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 NONE V NONE Hz

8/1/2018

Data Sheet

Date: 1/19/2018

811554.00

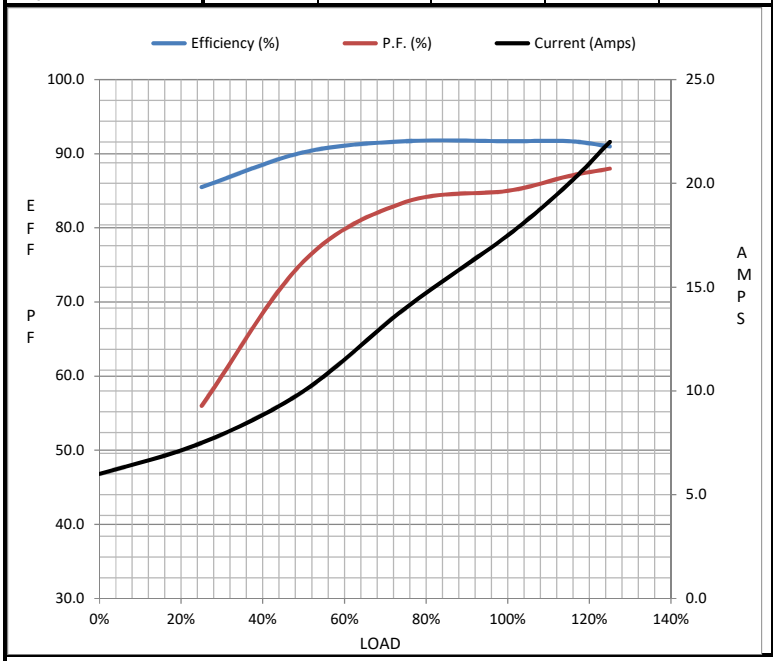
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.0	7.5	10.0	14.0	17.5	20.0	22.0	116	
Torque (ft-lb)	0.00	5.5	11.0	16.5	22.2	25.0	28.0	41.0	
RPM	3600	3585	3570	3560	3550	3,540	3525	0	
Efficiency (%)		85.5	90.2	91.7	91.7	91.7	91.0		
P.F. (%)	10.5	56.0	75.5	83.5	85.0	87.0	88.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3175	3550	3600
Current (Amps)	116	103	75.0	17.5	6.0
Torque (ft-lb)	41.0	37.0	65.0	22.2	0.00



Information Block

HP	15.0	
Sync. RPM	3600	
Frame	254	
Enclosure	TEFC	
Construction	TFN	
Voltage	460	V
Frequency	60	Hz
Design	A	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	50	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	1.10	Lb-Ft²
Ref Wdg	K256289 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	CONSTANT 20:1	
Outline Dwg	B-SS203002LE-1050	
Conn. Diag	A-EE7300-LE	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3870	0.2760	1.4040	1.2980	42.3360

Speed -Torque Curve