

# PRODUCT INFORMATION PACKET

Model No: LM28155

Catalog No: LM28155

Elevator Duty Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 365T Frame, DP



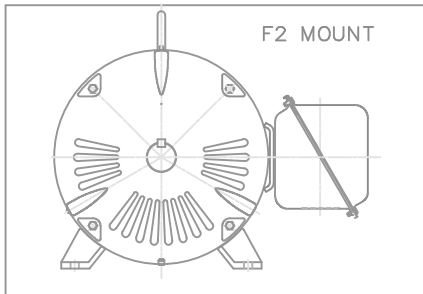
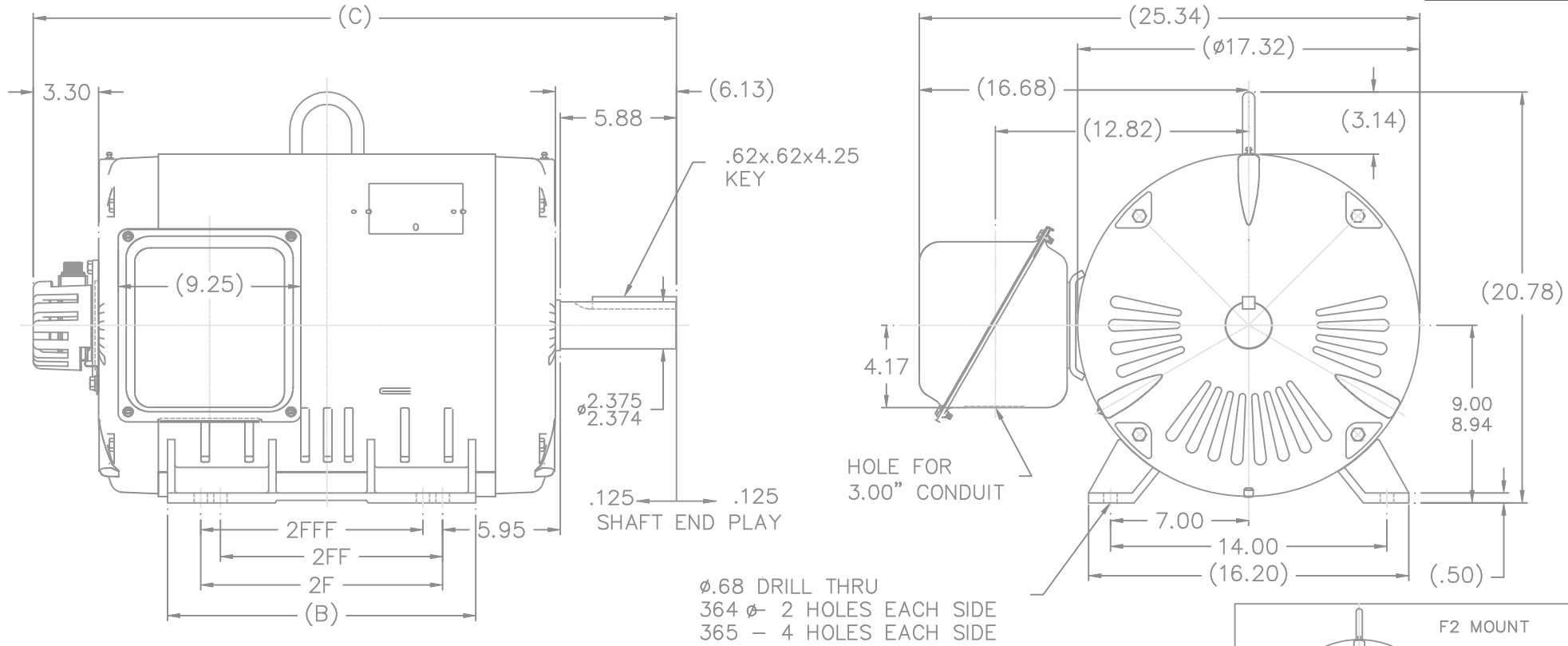
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### Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	129.0/64.5 A	Speed	1188 rpm
Service Factor	1	Phase	3
Efficiency	93 %	Power Factor	78
Duty	Elevator	Insulation Class	F
Design Code	INV	KVA Code	L
Frame	365T	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	313	Opp Drive End Bearing Size	311
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.084 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	32.56 in
Frame Length	16.48 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 1000:1		
Outline Drawing	XH2D1ES33B-1648	Connection Drawing	A-EE7308BZ-LN



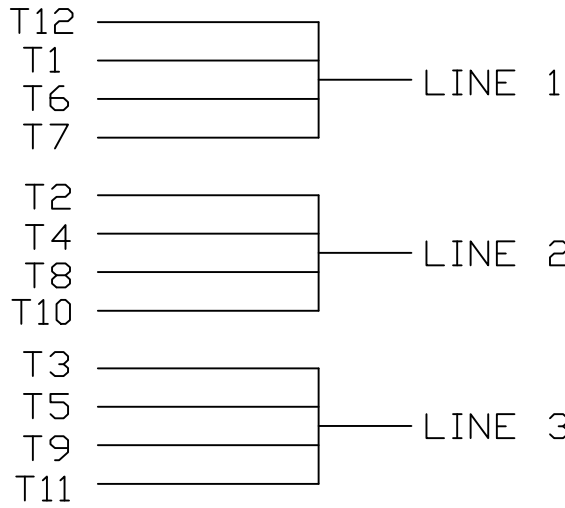
\*VVVF ELEVATOR HOIST MOTOR WITH SHAFT ENDPLAY\*

NOTES:  
1. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

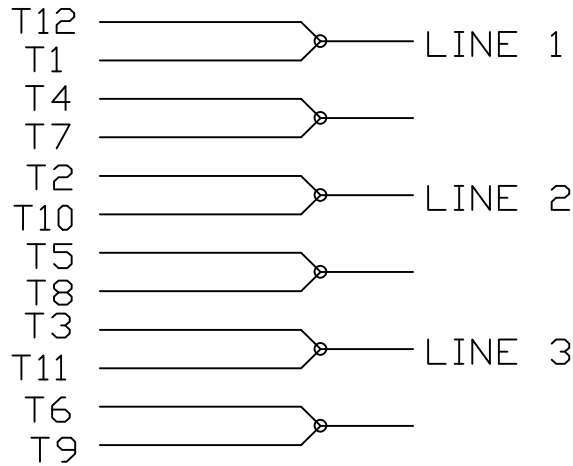
DASH	FRAME	C	B	2F	2FF	2FFF	BS
1548	364T	31.56	14.61	11.25			11.07
1648	365T	32.56	15.61	12.25	11.25	11.25	12.07

				TOLERANCES UNLESS SPECIFIED		Lincoln MOTORS		DRAWN RDH 11/27/2002	
				DEC.	INCHES			CHK	ML 11/27/2002
				.X	±.1			APPD	HNH 12/02/2002
				.XX	±.03	TITLE OUTLINE VVVF ELEVATOR HOIST MOTOR WITH SPL ENDPLAY 360T ODP UE		SCALE	1=5
				.XXX	±.005			REF	
				.XXXX	±.0005			FMF	
				CHK	ANG ±7'30"			PREV	
1 NEW DRAWING MU43936 RDH 12/02/2002				HNH	.XXXX ±.0005	MAT'L			
NO. REVISION BY & DATE				RFP		CAD FILE XH2D1ES33B		SIZE	DRAWING NO. PAGE OF REV.
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				CHK	ANG ±7'30"	FINISH		B	XH2D1ES33B 1
				DIST	BY				

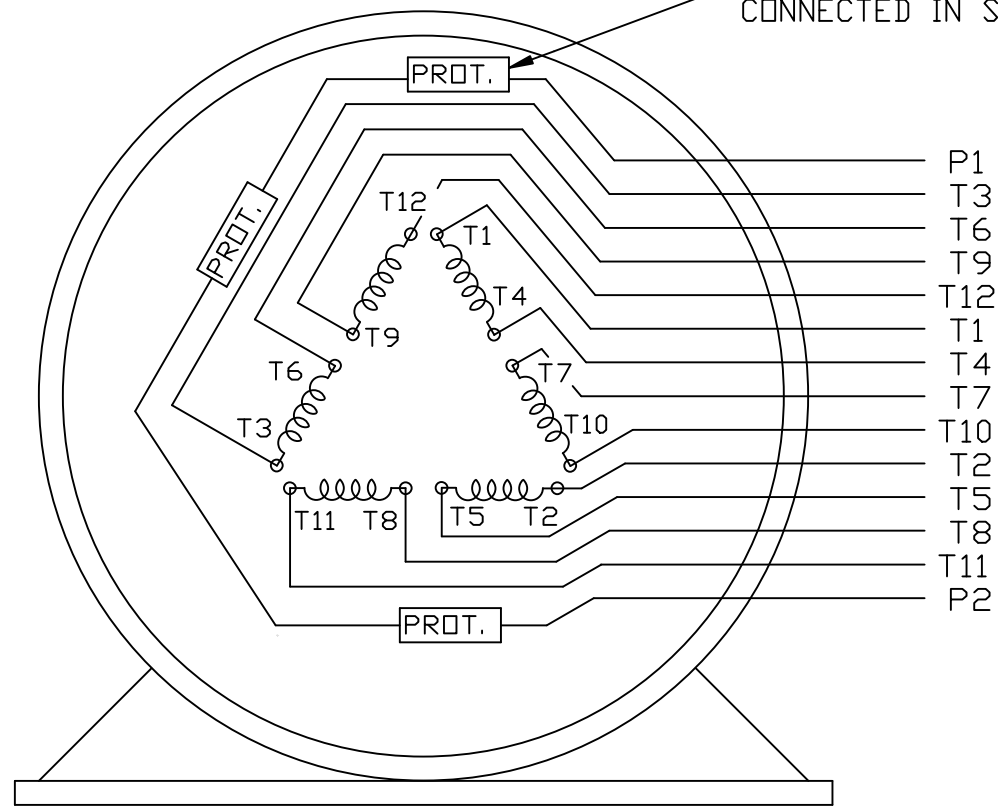
LOW VOLTAGE



HIGH VOLTAGE



THERMO - PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

					UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±      XXX±      XXXX±      ANGLES±				
2	08/17/2011	REMOVED NOTE '12 LEADS SINGLE VOLTAGE'	MU103768		RFH	MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY KL CHKD BY DJK	12-11-2000
1	12-11-2000	NEW DRAWING	MU34925		KL	FINISH		APPD BY DJK	12-11-2000
REV	DATE	CHANGE			NAME	PART NAME EXTERNAL CONNECTION DIAGRAM 3 PHASE - 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308BZ-LN
					PURCHASED	CADD FILE NO.	EE7308BZ-LN		



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** A-EE7308BZ-LN

**OUTLINE:** XH2D1ES33B-1648

**WINDING #:** L3656017 1

CATALOG #:LM28155

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37.0	1200	1188	365T	DP	L	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	129/64.5	Y START D RUN OR INV	ELEVATOR	F4	1.0	40

FULL LOAD EFF:	93	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	90.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	78	3/4 LOAD PF:	71.5	1/2 LOAD PF:	59.4	91.7	SQ CAGE INV DUTY

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
221 LB-FT	1148 / 574	575 LB-FT 260 %	880 LB-FT 398 %	100

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
69 dBA	79 dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	- LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
BALL	BALL						
313	311						

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

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N  
O  
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E  
S  
\*

<b>INVERTER TORQUE:</b> CONSTANT 1000:1
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> REGAL SUPPLIED - REGAL MOUNT
DYNAPAR HS35 LINCOLN
MS CONNECTOR 1024 PPR
<b>BRAKE:</b> NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz



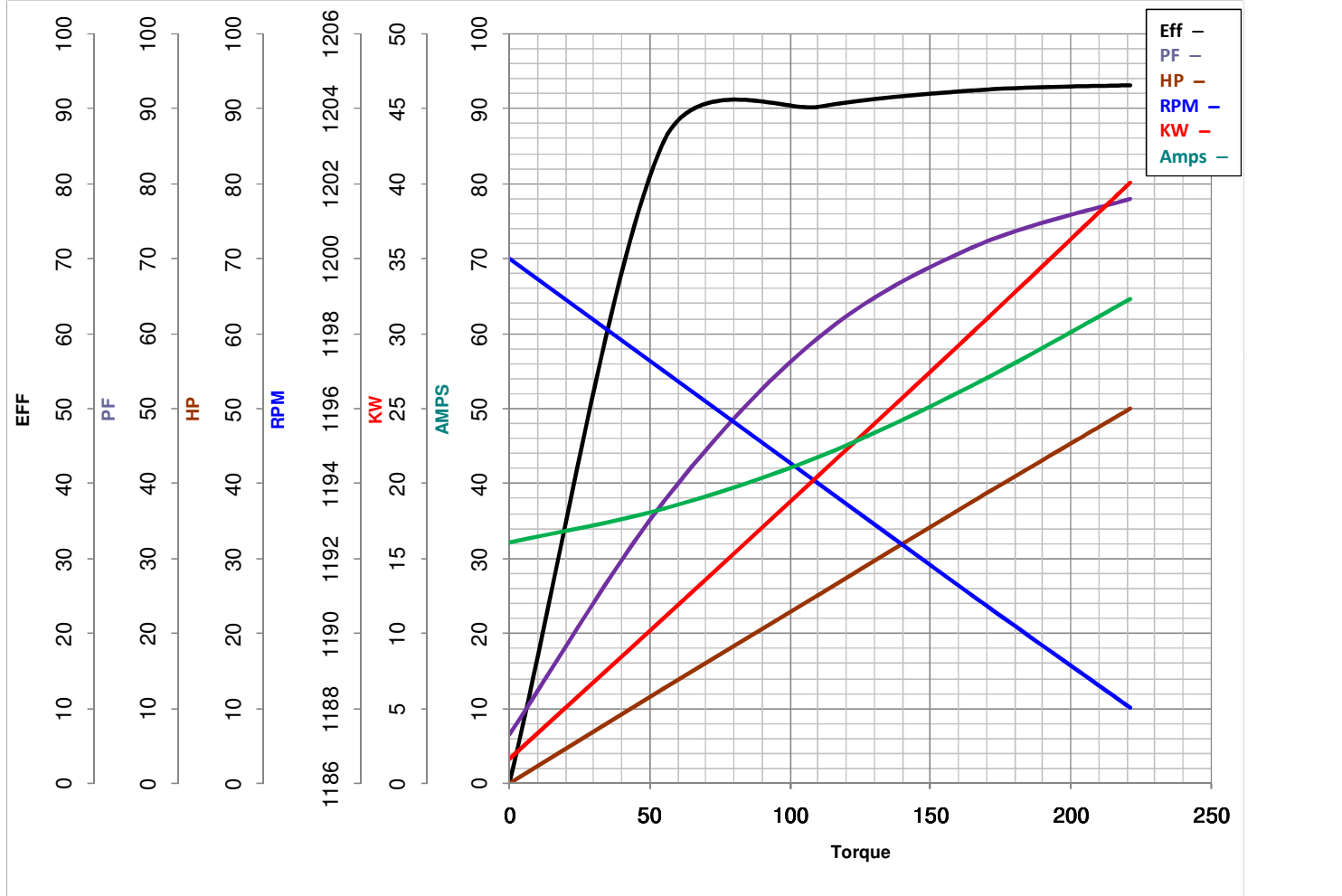
**LEESON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No LM28155

Curve at 460 Volts HP 50.00 PHASE 3  
60 HZ  
50 HP VOLTS 230/460

Catalog No LM28155BA

HZ 60 RPM 1188



Torque in Lb.Ft

FL TORQUE 221 Lb.Ft  
BD TORQUE 880.0 Lb.Ft  
LR TORQUE 575 Lb.Ft

FL AMPS 129/64.5  
PU TORQUE 546.0 Lb.Ft  
LR AMPS 574

WINDING L3656017-1

Date 5/25/2018