BALDOR • RELIANCE

Customer information packet

XEFRPM25154

15HP, 1800, 460V, HL254T, TEFC, F1

12/22/2025 8:22:41 PM

Specifications

Enclosure	TEFC
Frame	HL254T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	NEMA PREMIUM
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1-60
Current @ Voltage	15.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	15.0 a
Insulation Class	H
KVA Code	G
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	23.89 IN
Product Family	Fan - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Part detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7016A
Layout	619702-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	06-03-2016

Speed	1800 rpm
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007QF

DUTY	HP	RPM	AMPS	VOLTS	HZ
CONT	15	1800	15.0	460	60

CAT.NO.	XEFRPM25154		**SPEC. NO.**	H25-A000-0001							
SER.NO			**FRAME SIZE**	HL254T		**TYPE PSM**					
AMB.	40	**S.F.**	1.15	**ENCL.**	TEFC	**PH**	3	**DESIGN**	B	**CODE**	G
NEMA NOM. EFF	94.9	**GUARANTEED EFFICIENCY**	94			**POWER FACTOR**	95.8	**INSUL. CLASS**	H		
D.E. BRG.	45BC02J30X		**O.D.E. BRG.**	35BC02J30X							
VPWM INVERTER DUTY @1.0SF	**CHP HZ**	60-90	**CT HZ**	1-60		**VT HZ**	0-60				
	X/T										

000692000VY		
MEAS OPEN CIRCUIT VOLTAGE		
IS	**VOLTS AT**	**RPM.**

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL254T	15	PSM	3	60	1800

VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
460	15.5	CONT	40	H	1.15	B

CODE LETTER	ENCL	ROTOR INERTIA ($lb\text{-}ft^2$)	STATOR RES.@ 25°C OHMS (BETWEEN LINES)	
G	TEFC	.73	.7181	TYPICAL DATA

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	8.7	1800	4.40	N/A
1/4	3.75	7.2	1800	53.9	90.7
2/4	7.49	8.8	1800	84.5	94.2
3/4	11.2	11.9	1800	93.3	94.9
4/4	15.0	15.5	1800	95.8	94.9
5/4	18.7	19.3	1800	96.3	94.6

SPEED TORQUE

	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES
LOCKED ROTOR	0	182	79.6	111.2
PULL OUT	1800	273	119.4	54.6
FULL LOAD	1800	100	43.8	15.5

THIS IS A PERMANENT MAGNET MOTOR

GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25°C = 19.3 VOLTS PER 100 RPM

REMARKS:

BALDOR
A MEMBER OF THE ABB GROUP

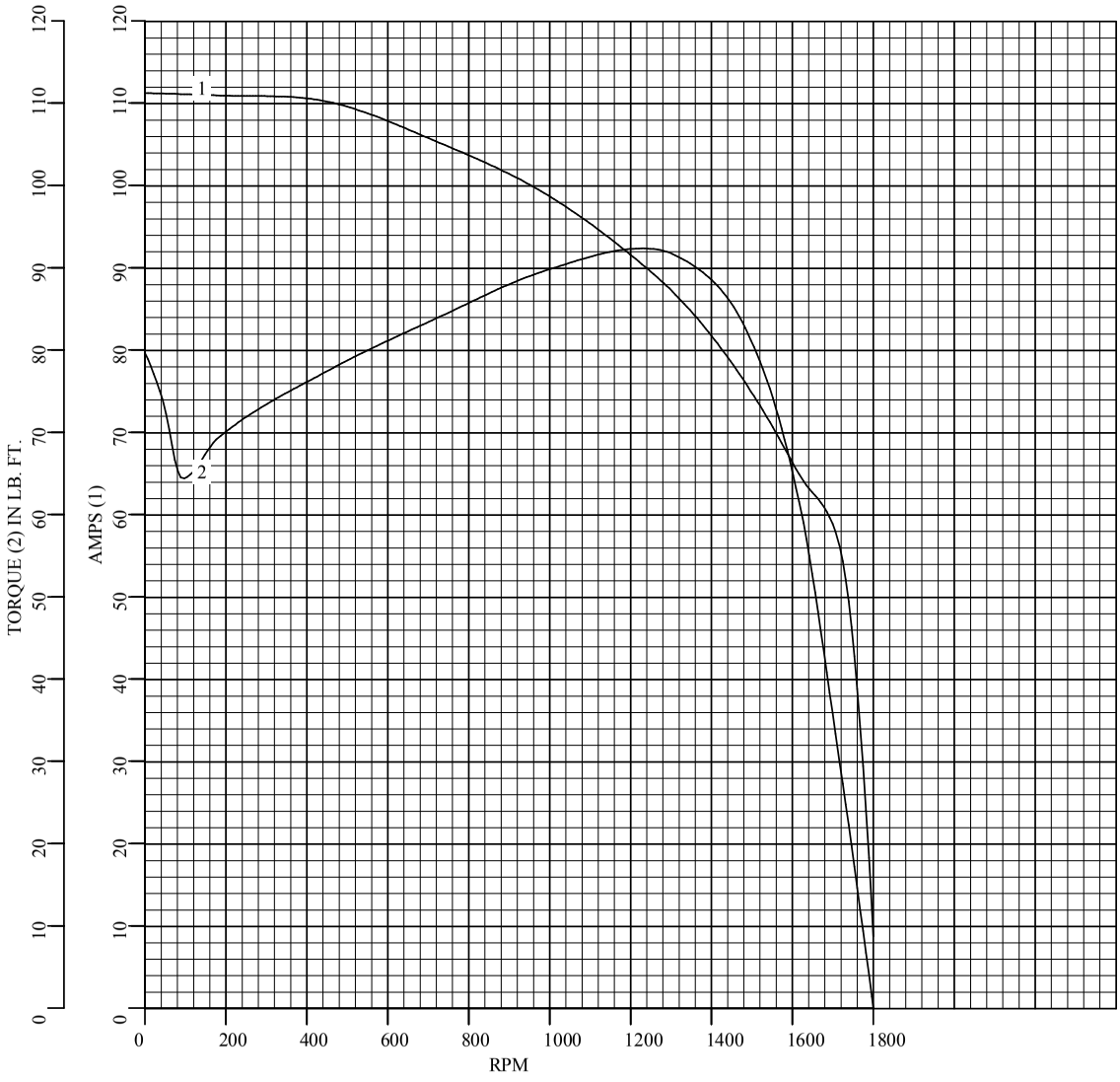
DR. BY CAD
CK. BY RFM
APP. BY RFM
DATE 05/25/2016

LSPM MOTOR PERFORMANCE DATA LS7016A

ISSUE DATE 05/25/2016

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL254T	RPM	1800	INSUL	H	WK^2 (lb-ft^2)	.73
HP	15	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	15.5	ENCL	TEFC	STATOR RES.@ 25°C	.7181
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Amps & Torque vs. RPM
During Acceleration



TYPICAL DATA

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	CAD
CK. BY	RFM
APP. BY	RFM
DATE	05/25/2016

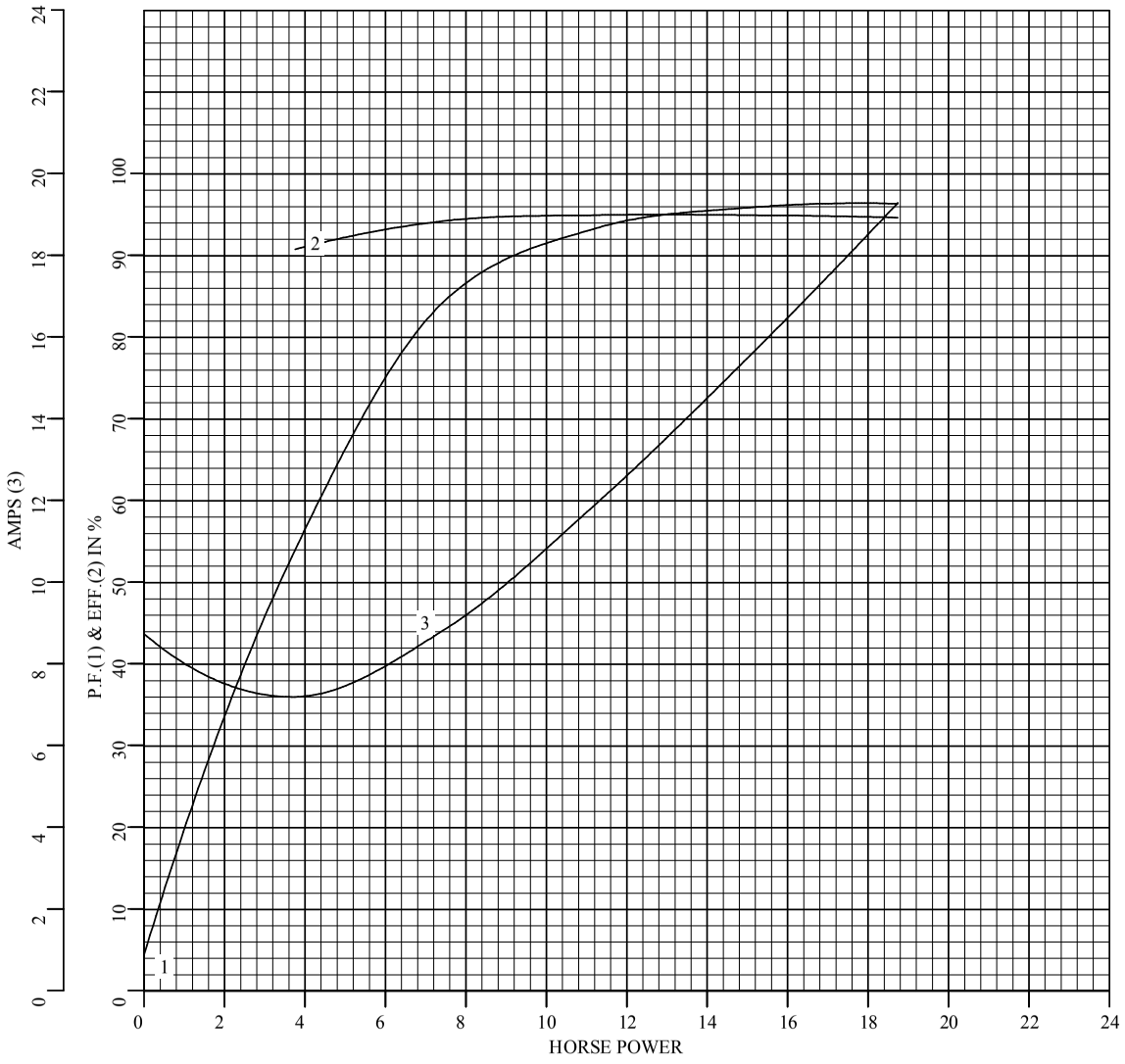
LSPM MOTOR PERFORMANCE CURVES

ISSUE DATE 05/25/2016

LS7016A

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL254T	RPM	1800	INSUL	H	WK^2 (lb-ft^2)	.73
HP	15	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	15.5	ENCL	TEFC	STATOR RES.@ 25°C	.7181
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

Performance Data vs. HP
At Synchronous Speed



TYPICAL DATA

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	CAD
CK. BY	RFM
APP. BY	RFM
DATE	05/25/2016

LSPM MOTOR PERFORMANCE CURVES

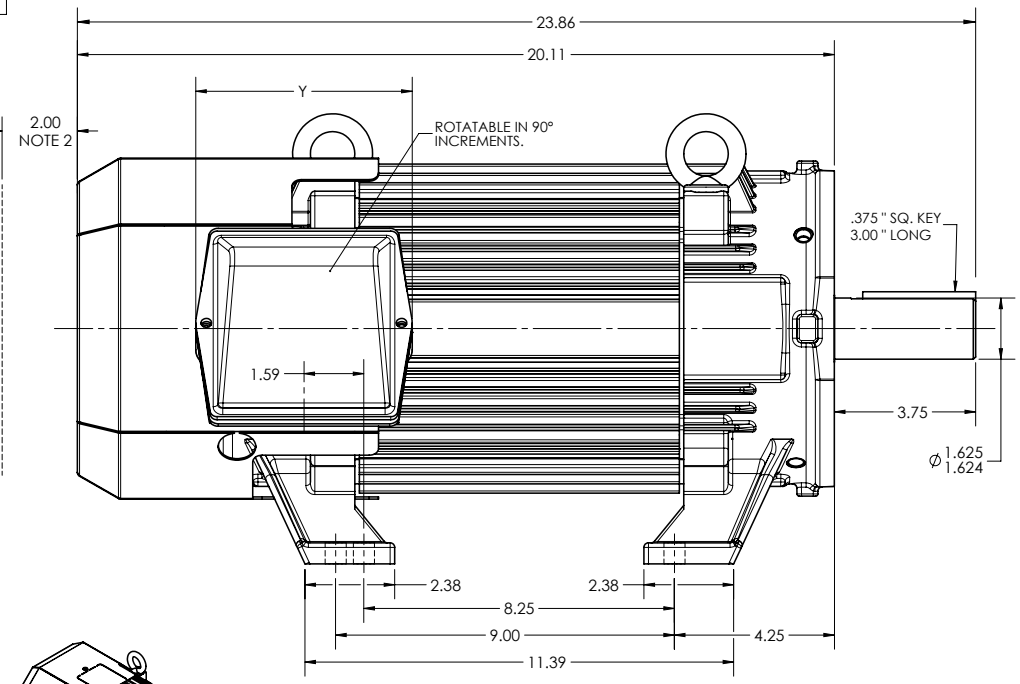
LS7016A

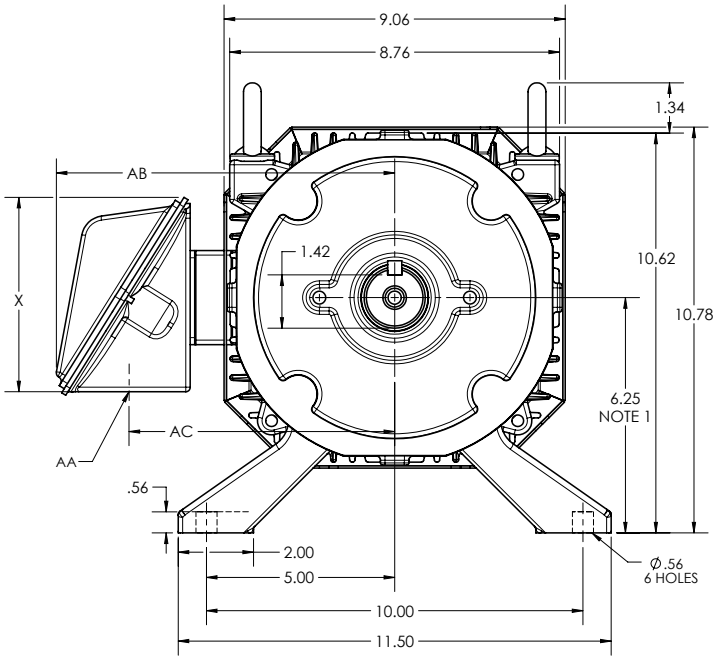
ISSUE DATE 05/25/2016

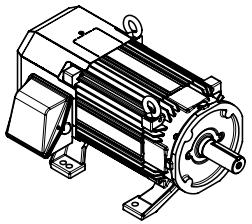
RPM-AC FINNED FRAME ALTERNATING CURRENT MOTOR
HL254T NEMA

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
DRIVE METHOD: COUPLED
COOLING: FAN COOLED

619702-001







DIMENSIONS ARE IN INCHES

MOTOR WEIGHT: 195 LBS. (MAY VARY 15 % FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.)

TERMINAL BOX MAY BE LOCATED F1, F2, OR F3 IF SPECIFIED.
TERMINAL BOX MAY BE LOCATED DRIVE END OR OPPOSITE DRIVE END IF SPECIFIED.
REFER TO DATA TRANSMITTAL OR PARTS LIST FOR TERMINAL BOX PART NUMBER

TERMINAL BOX	X	Y	AA	AB	AC	MAX AMPS	REMARKS
706320-003A	3.88	5.00	1.12	8.20	6.50	40	STEEL
706320-005A	5.00	6.12	1.75/2.00	9.20	7.06	75	STEEL
706320-005A	5.00	6.12	1.75/2.00	9.20	7.06	85	STEEL - WITH TERMINAL STRIP
706320-004C	5.00	5.75	1.00 TAP	9.10	7.06	60	CAST IRON (AS SHOWN)
706320-004C	5.00	5.75	1.00 TAP	9.10	7.06	85	CAST IRON - WITH TERMINAL STRIP

NOTES:
1. SHAFT HEIGHT WILL NOT BE EXCEEDED. SHIMS UP TO 0.06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
2. WALLS OR OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET SPACE.

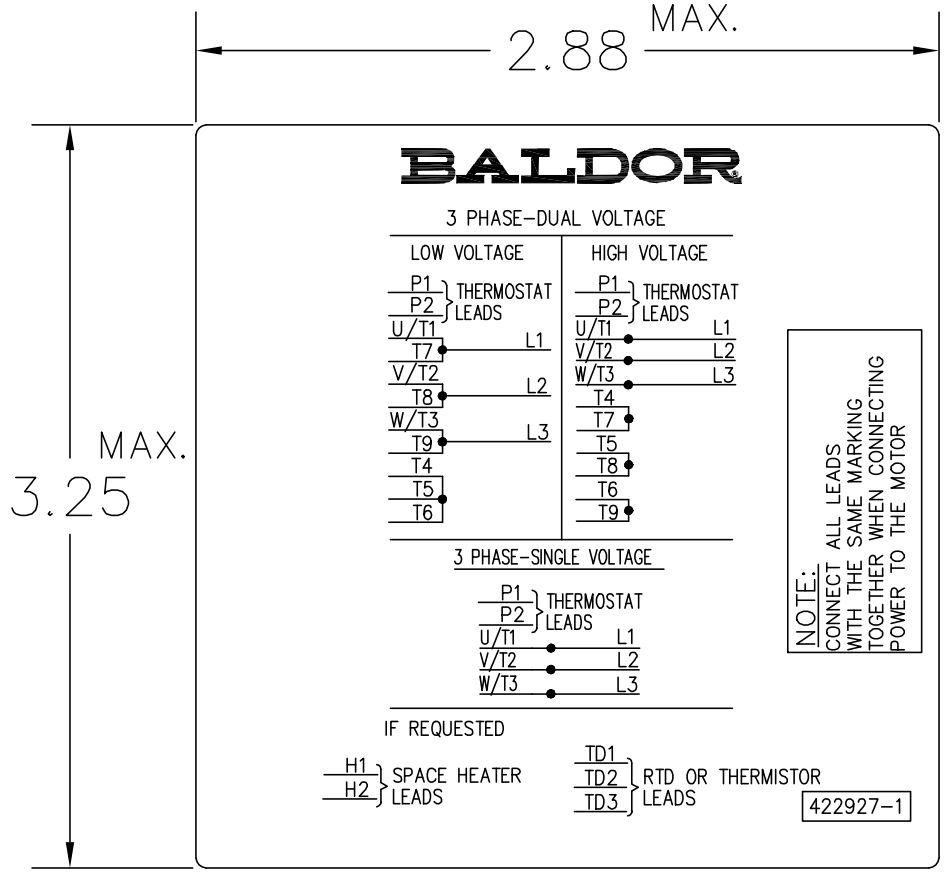
REV. DESC: ADD WRENCH CLEARANCE TO BRACKETS			
REV: B	VERSION: 02	REVISED: 10:23:26 11/09/2016	TDR: 000001000919
MODEL NO. 619702-001			REF: -
BY: USCOCRE			B

BALDOR

DIM SHEET,NEMA HL254T,RPM-AC,FL1844 TEFC

619702-001

422927–001



NOTE:
DATA TO BE SIZED SO THAT IT FITS INTO MATERIAL DECAL DIMENSIONS. MAKE LETTERS & NUMBERS AS LARGE AS POSIBLE.

MATERIAL: CERAMATIC DGF–P4
PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS AND LINES TO BE BLACK ON WHITE BACKGROUND.

422927–001

REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE			BALDOR
REV. LTR: B	VERSION: 02	TDR: 000000788708	
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013	EXTERNAL CONNECTION LABEL
MTL: –		BY: RGGWT	SH 1 of 1