

ABB BALDOR RELIANCE III

Customer information packet

XEFRPM25154

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

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	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7016A
Layout	619702-001
Eff. date	08-05-2026
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

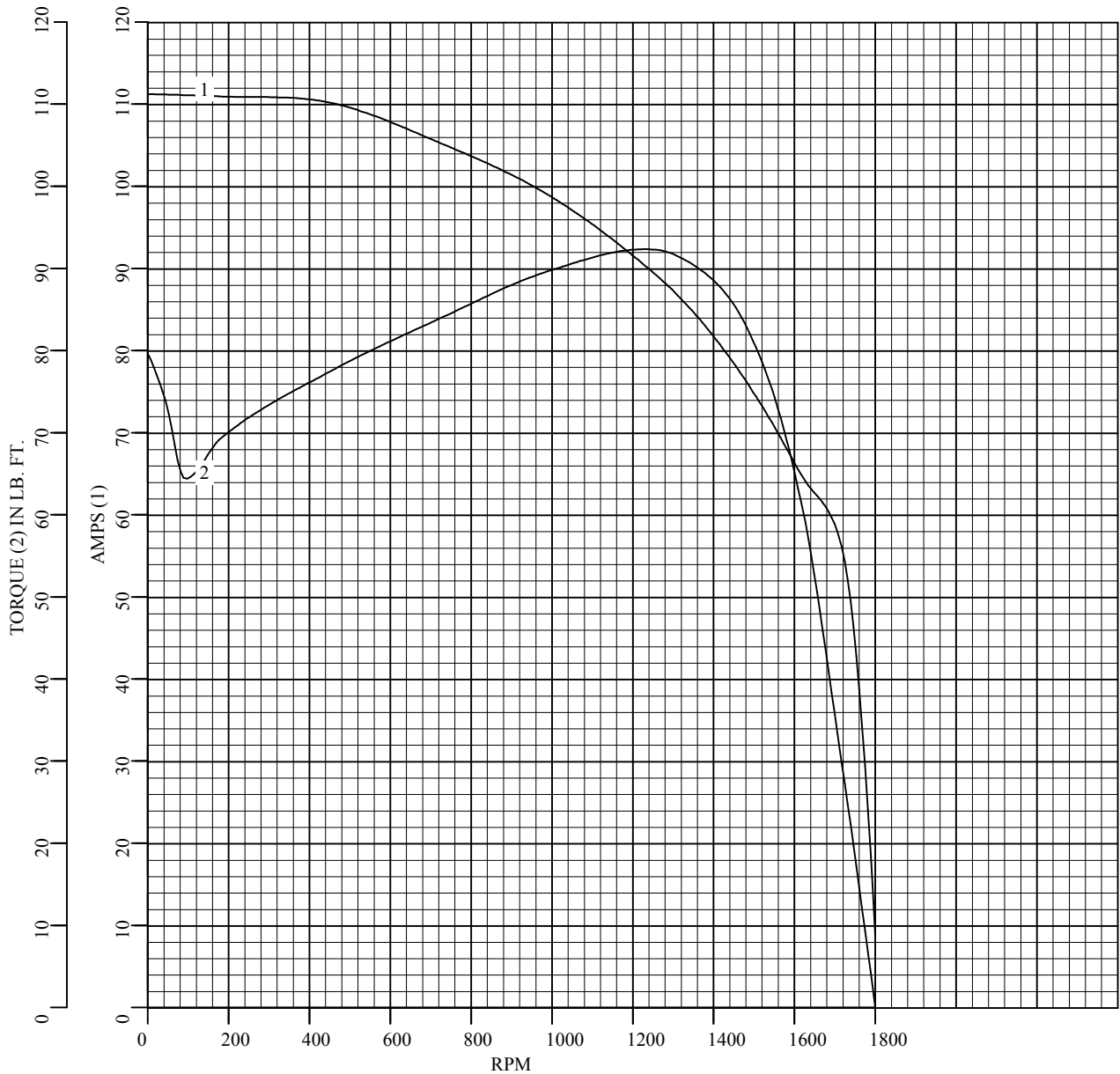
MEAS OPEN CIRCUIT VOLTAGE

IS VOLTS AT RPM.

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL254T	15	PSM	3	60	1800
VOLTS	AMPS	DUTY	AMB ^o C	INSUL	S.F.	NEMA DESIGN
460	15.5	CONT	40	H	1.15	B
CODE LETTER	ENCL	ROTOR INERTIA (lb-ft ²)	STATOR RES. @ 25 ^o C OHMS (BETWEEN LINES)	TYPICAL DATA		
G	TEFC	.73	.7181			
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^oC = 19.3 VOLTS PER 100 RPM REMARKS:						
		DR. BY <u>CAD</u> CK. BY <u>RFM</u> APP. BY <u>RFM</u> DATE <u>05/25/2016</u>		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)	

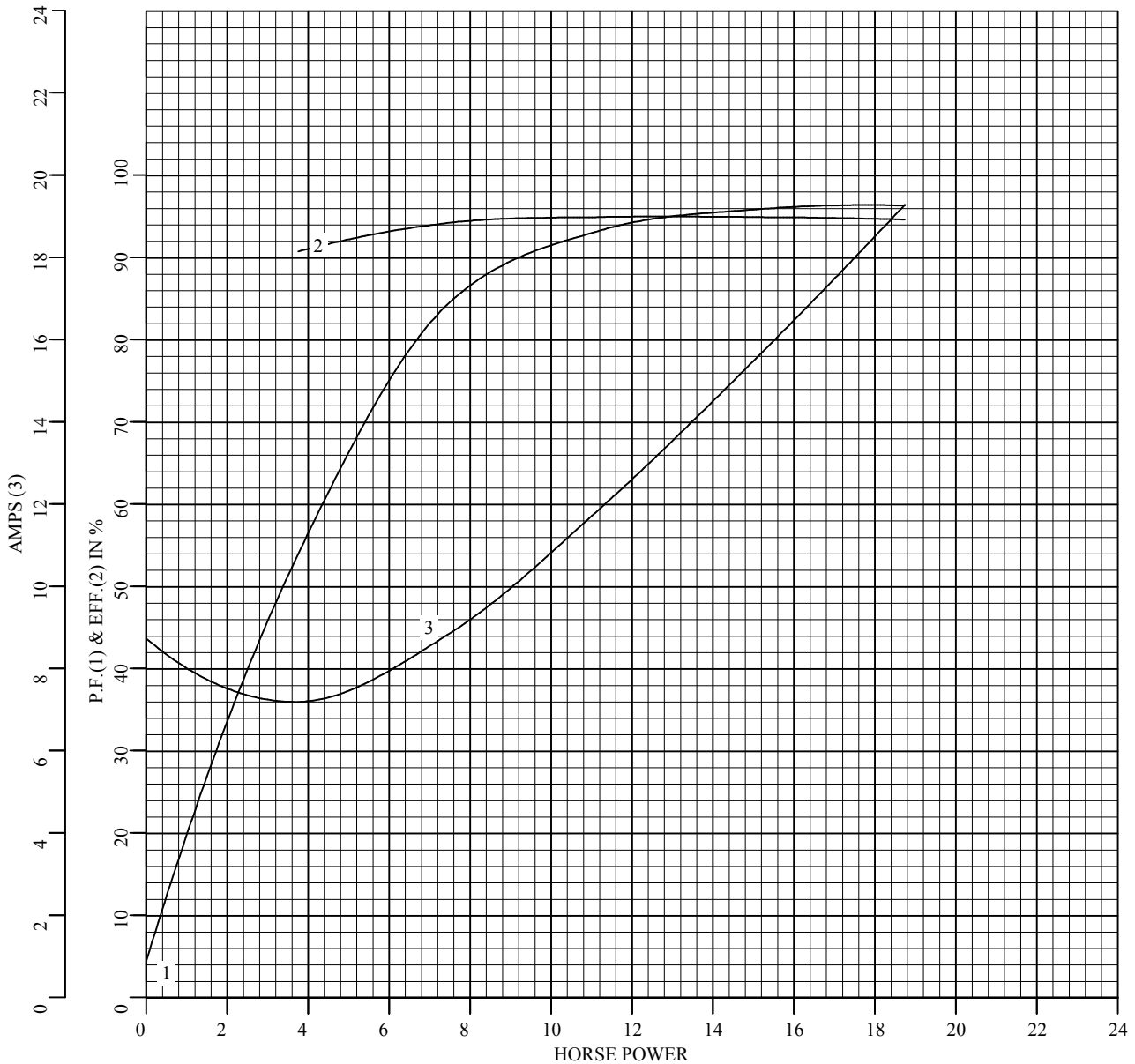
Amps & Torque vs. RPM During Acceleration



TYPICAL DATA

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



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

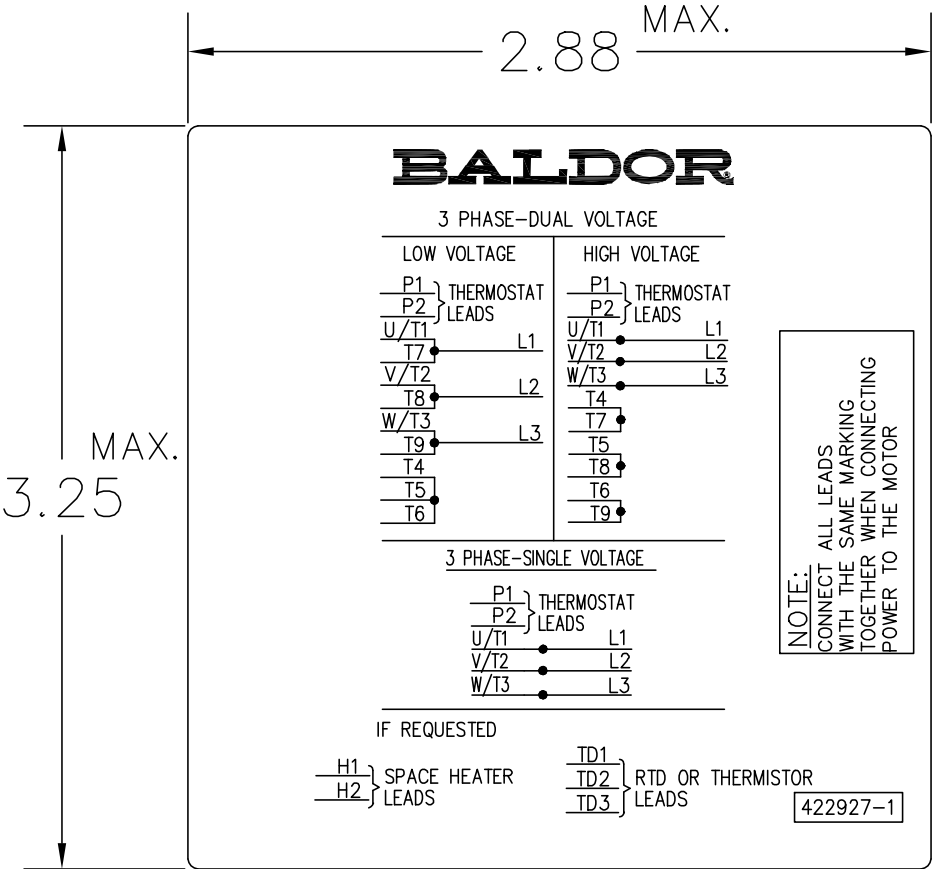
**LSPM MOTOR
PERFORMANCE
CURVES**

LS7016A

ISSUE DATE

05/25/2016

422927-001



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

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		
REV. LTR: B	VERSION: 02	TDR: 000000788708
FILE: \RGG\00000\203	REVISED: 08:09:29 03/04/2013	
MTL: -	BY: RGGWT	

BALDOR

EXTERNAL CONNECTION LABEL

SH 1 of 1