

ABB BALDOR RELIANCE III

Customer information packet

XEFRPM36604

60HP, 1800, 460V, HL364T, TEFC, F1

Specifications

Enclosure	TEFC
Frame	HL364T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	60.000 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	60.000 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	60.0 a
Insulation Class	H
KVA Code	G
Motor Standards	NEMA
Mounting Arrangement	F1
Product Family	Fan - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 rpm

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7022A
Layout	619707-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	06-03-2016

Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate
000613007QF

	DUTY	HP	RPM	AMPS	VOLTS	HZ						
	CONT	60	1800	60	460	60						
CAT.NO.	XEFRPM36604		SPEC. NO.		H36-A000-0001							
SER.NO			FRAME SIZE		HL364T		TYPE PSM					
AMB.	40	S.F.	1.15	ENCL.	TEFC		PH	3	DESIGN	B	CODE	G
NEMA NOM. EFF	97	GUARANTEED EFFICIENCY			96.4		POWER FACTOR		98.6		INSUL. CLASS H	
D.E. BRG.	75BC02J30X		O.D.E. BRG.		55BC02J30X							
VPWM INVERTER DUTY @1.0SF	CHP HZ	60-90		CT HZ	1-60		VT HZ	0-60				
	XT											

000692000VY

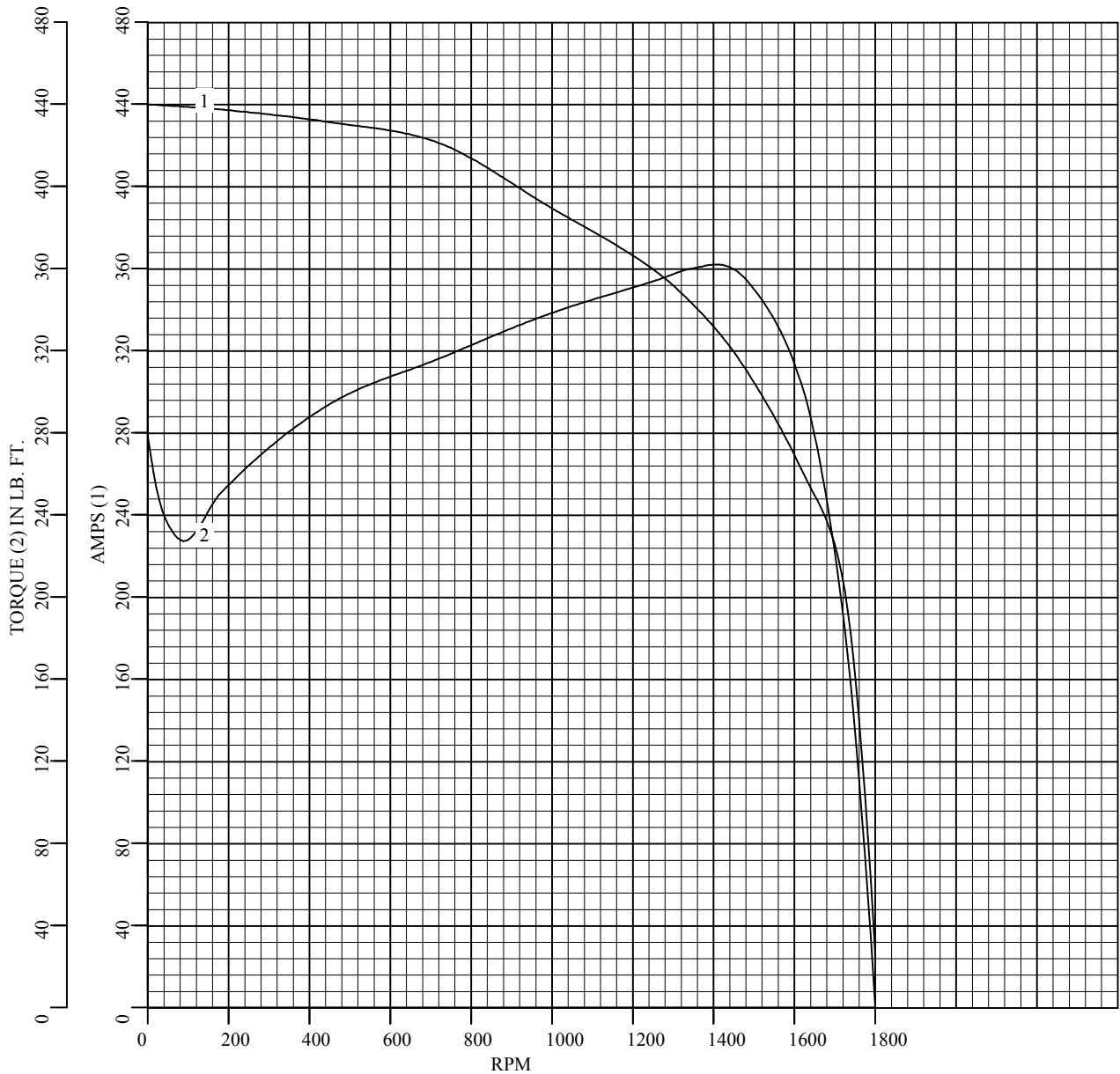
MEAS OPEN CIRCUIT VOLTAGE

IS VOLTS AT RPM.

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL364T	60	PSM	3	60	1800
VOLTS	AMPS	DUTY	AMB [°] C	INSUL	S.F.	NEMA DESIGN
460	58.8	CONT	40	H	1.15	B
CODE LETTER	ENCL	ROTOR INERTIA (lb-ft ²)	STATOR RES. @ 25 [°] C OHMS (BETWEEN LINES)	TYPICAL DATA		
G	TEFC	7.56	.1169	TYPICAL DATA		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	25.1	1800	3.70	N/A	
1/4	15.0	20.0	1800	74.6	94.0	
2/4	30.0	30.6	1800	95.9	96.2	
3/4	45.0	44.2	1800	98.4	96.8	
4/4	60.0	58.8	1800	98.6	97.0	
5/4	75.0	73.6	1800	98.1	97.0	
SPEED TORQUE						
	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES		
LOCKED ROTOR	0	159	278.5	439.8		
PULL OUT	1800	247	432.6	187.8		
FULL LOAD	1800	100	175.2	58.8		
THIS IS A PERMANENT MAGNET MOTOR GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25[°]C = 21.1 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		

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL364T	RPM	1800	INSUL	H	WK ² (lb-ft ²)	7.56
HP	60	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	58.8	ENCL	TEFC	STATOR RES. @ 25°C	.1169
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

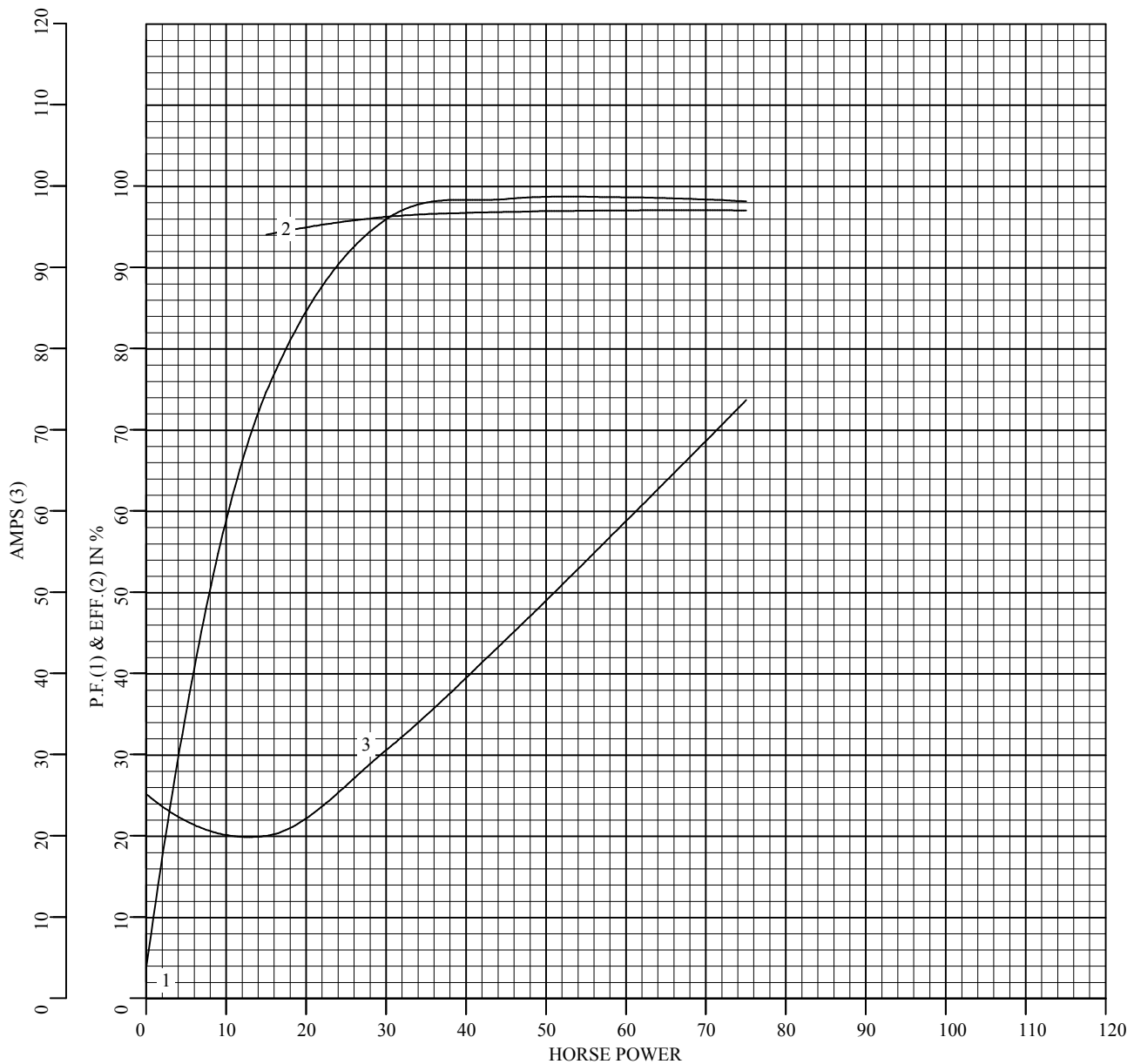
Amps & Torque vs. RPM During Acceleration



TYPICAL DATA

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL364T	RPM	1800	INSUL	H	WK ² (lb-ft ²)	7.56
HP	60	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	58.8	ENCL	TEFC	STATOR RES. @ 25°C	.1169
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

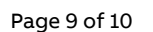
**LSPM MOTOR
PERFORMANCE
CURVES**

ISSUE DATE

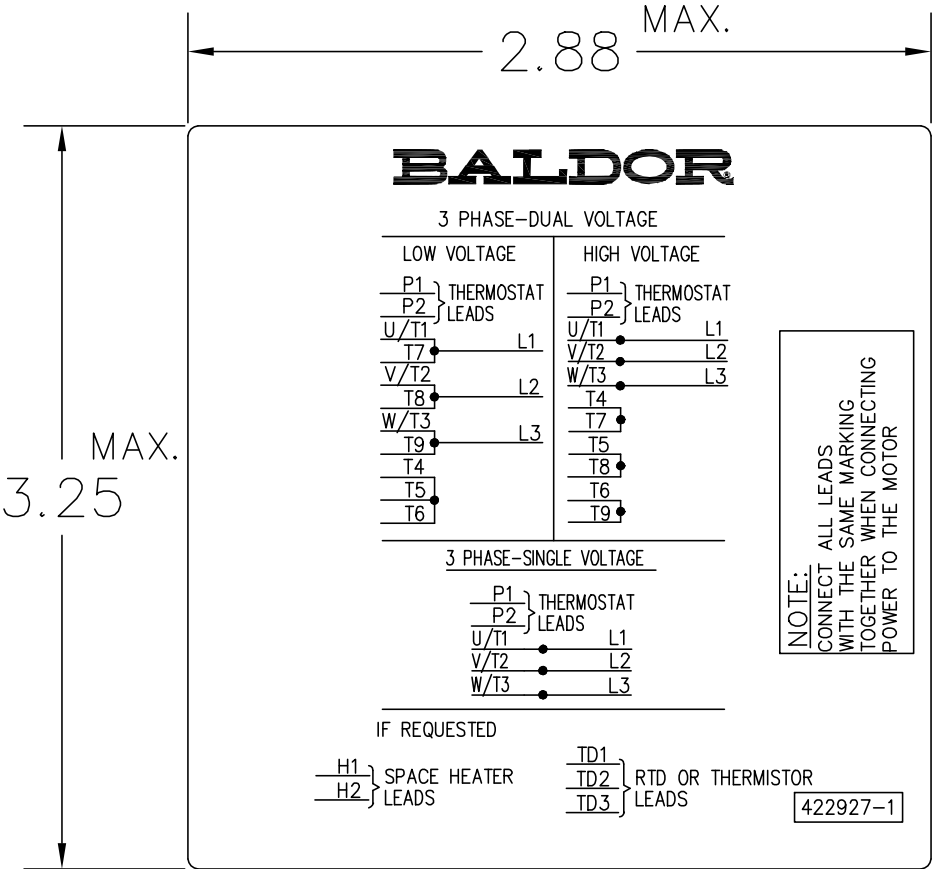
LS7022A

05/25/2016

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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