

ABB BALDOR RELIANCE III

Customer information packet

XEFRPM28254

25HP, 1800, 460V, HL284T, TEFC, F1

Specifications

Enclosure	TEFC
Frame	HL284T
Frame Material	Exposed Laminations
Frequency	60.00 Hz
Output @ Frequency	25.000 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	25.200 A @ 460.0 V
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Frame Prefix	HL
Heater Indicator	No Heater
High Voltage Full Load Amps	25.2 a
Insulation Class	H
KVA Code	G
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	26.38 IN
Product Family	Fan
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	LS7018A
Layout	619696-001
Eff. date	04-23-2019
CD Diagram	422927-001
Poles	04
Leads	
Proprietary	False
Created date	05-13-2016

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

Nameplate
000613007QF

	DUTY	HP	RPM	AMPS	VOLTS	HZ							
	CONT	25	1800	25.2	460	60							
CAT.NO.	XEFRPM28254		SPEC. NO.		H28-A000-0002								
SER.NO			FRAME SIZE		HL284T		TYPE PSM						
AMB.	40	S.F.	1.15	ENCL.	TEFC		PH	3	DESIGN	B	CODE	G	
NEMA NOM. EFF	95.4		GUARANTEED EFFICIENCY			94.5		POWER FACTOR		95.2		INSUL. CLASS	H
D.E. BRG.	50BC03J30X		O.D.E. BRG.		45BC02J30X								
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.

Parts List

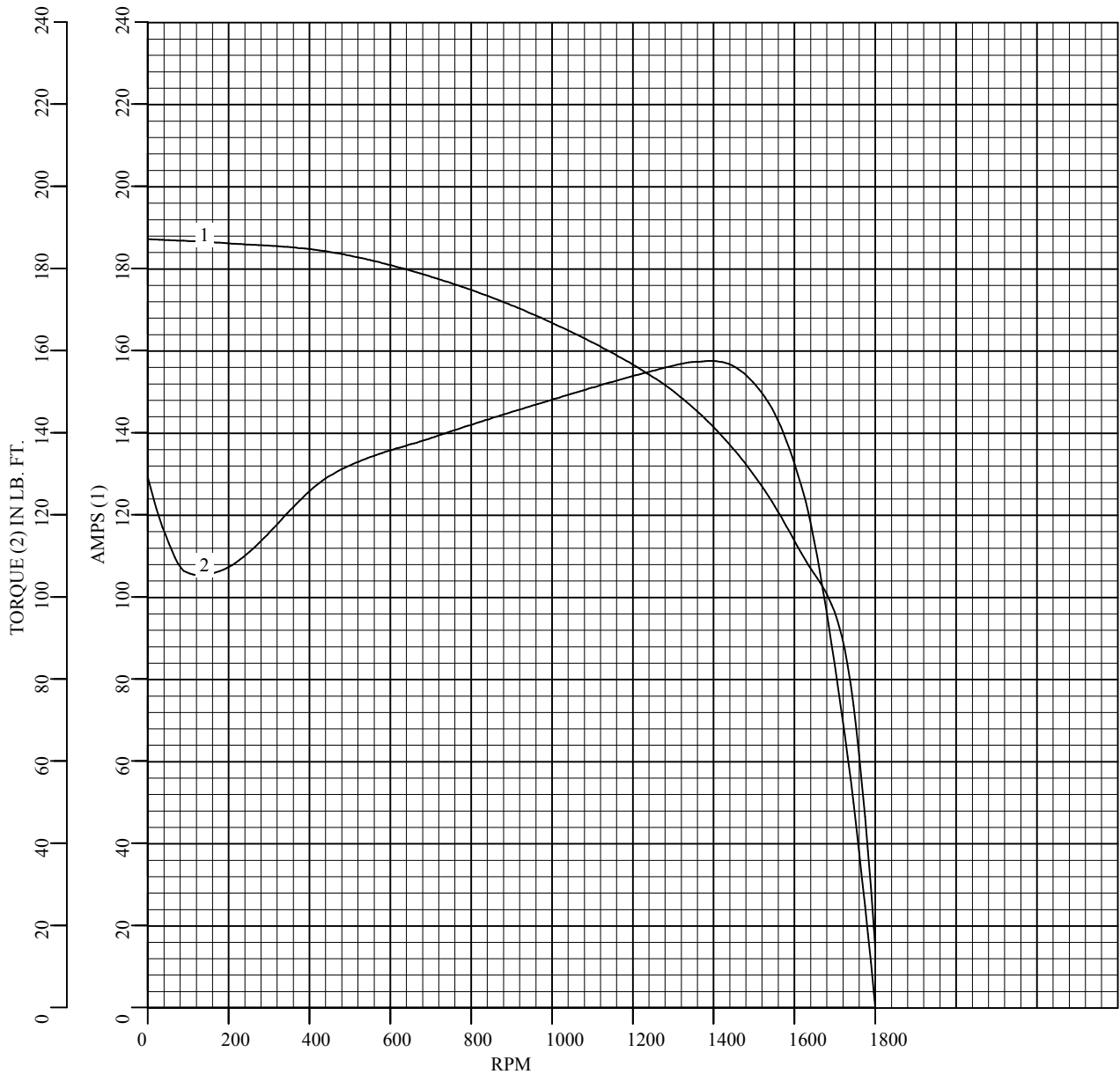
Part number	Description	Quantity
WS312066	WS H28-A000-0002	1.000 ea
RA308291	RA H28-A000-0002	1.000 ea
411716004A	219P039 - 219P039 - LA	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
000613007QF	NP,RPM AC - XE WITH CERTIFIED LOGO	1.000 ea
000613006ABP	RPM-XE,EXTREME EFFICIENCY,UL LISTED	1.000 ea
000692000VY	PERMANENT MAGNET MOTOR NAMEPLATE	1.000 ea
422927001	C/D LABEL	1.000 ea
004824007AB	PAINT,XT	0.100 ea
810102004AAC	BRKT,ODE,LSPM210 (FL210)	1.000 ea
810102003AAA	BRKT,DE,LSPM210 (FL210)	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
004824015A	GREASE POLYREX EM	0.100 lb
415045002H	SLGR	1.000 ea
415045002G	SLGR	1.000 ea
400638001AB	WASHER SPRING - 210	1.000 ea
036610010AB	MHSLW M10 PLATED	4.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
036100080KA	M10-1.50X 80MM HXSOCHDCS	3.000 ea
036100060JA	M8-1.25 X 60MM HXSOCHDCS	3.000 ea
036140001C	EYEBOLT - 400	2.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
034693001AB	PPLG - G508- use 034692001AB	1.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
036500010AB	METRIC NUT M10-1.5PLTD400	4.000 ea
609830005H	TBOLT,M10-1.5 X 10.19	4.000 ea
415000103A	T/LUG #14AWG-#4AWG W/HOLE FOR .250 BOLT	1.000 ea
415072001B	CLAMP	1.000 ea

417733004T	GASKET CONDUIT BOX	2.000 ea
034180010DA	KEY 1/4X1/4X1-1/4L	1.000 ea
078546001G	FAN 180	1.000 ea
708533505A	COVER,FAN,HL280	1.000 ea
036000016KB	HHCSM10-1.5X16MM PLTD-280	4.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 ea
406673002AE	2" CAP PLUG	1.000 ea
036620008AB	M6 METRIC EXT LOCKWASHER	1.000 ea
418010012J	CONDUIT BOX SPACER	1.000 ea
036601008AB	M6 FLAT WASHER	4.000 ea
075460062B	+C/B - 280	1.000 ea
075461011A	+CBOX CVR BLKT - 280	1.000 ea
065591000C	GASK 250-280	1.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	2.000 ea
036000050HB	MHHCS M6X50MM PLATED	4.000 ea
034180027GA	KEY 1/2 SQ X 3.38"	1.000 ea
004824007K	SPECIAL PAINT	0.100 ea
LB1549	LABEL, BLANK 1.375 X 2.250 IMPRINTABLE	1.000 ea

S.O.	FRAME	HP	TYPE	PHASE	HERTZ	RPM
--	HL284T	25	PSM	3	60	1800
VOLTS	AMPS	DUTY	AMB ^o C	INSUL	S.F.	NEMA DESIGN
460	25.8	CONT	40	H	1.15	B
CODE LETTER	ENCL	ROTOR INERTIA (lb-ft ²)	STATOR RES. @ 25 ^o C OHMS (BETWEEN LINES)			
G	TEFC	1.82	.4081	TYPICAL DATA		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	14.4	1800	3.90	N/A	
1/4	6.25	11.9	1800	53.5	91.6	
2/4	12.5	14.7	1800	83.8	94.8	
3/4	18.7	19.9	1800	92.7	95.4	
4/4	25.0	25.8	1800	95.2	95.4	
5/4	31.2	32.2	1800	95.6	95.1	
SPEED TORQUE						
	RPM	TORQUE (% FULL LOAD)	TORQUE (lb-ft)	AMPERES		
LOCKED ROTOR	0	177	129.2	187.1		
PULL OUT	1800	253	184.6	94.7		
FULL LOAD	1800	100	72.9	25.8		
THIS IS A PERMANENT MAGNET MOTOR GENERATED OPEN CIRCUIT LINE-LINE VOLTAGE at 25^oC = 20.0 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 LS7018A ISSUE DATE 05/25/2016		

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL284T	RPM	1800	INSUL	H	WK ² (lb-ft ²)	1.82
HP	25	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	25.8	ENCL	TEFC	STATOR RES. @ 25°C	.4081
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

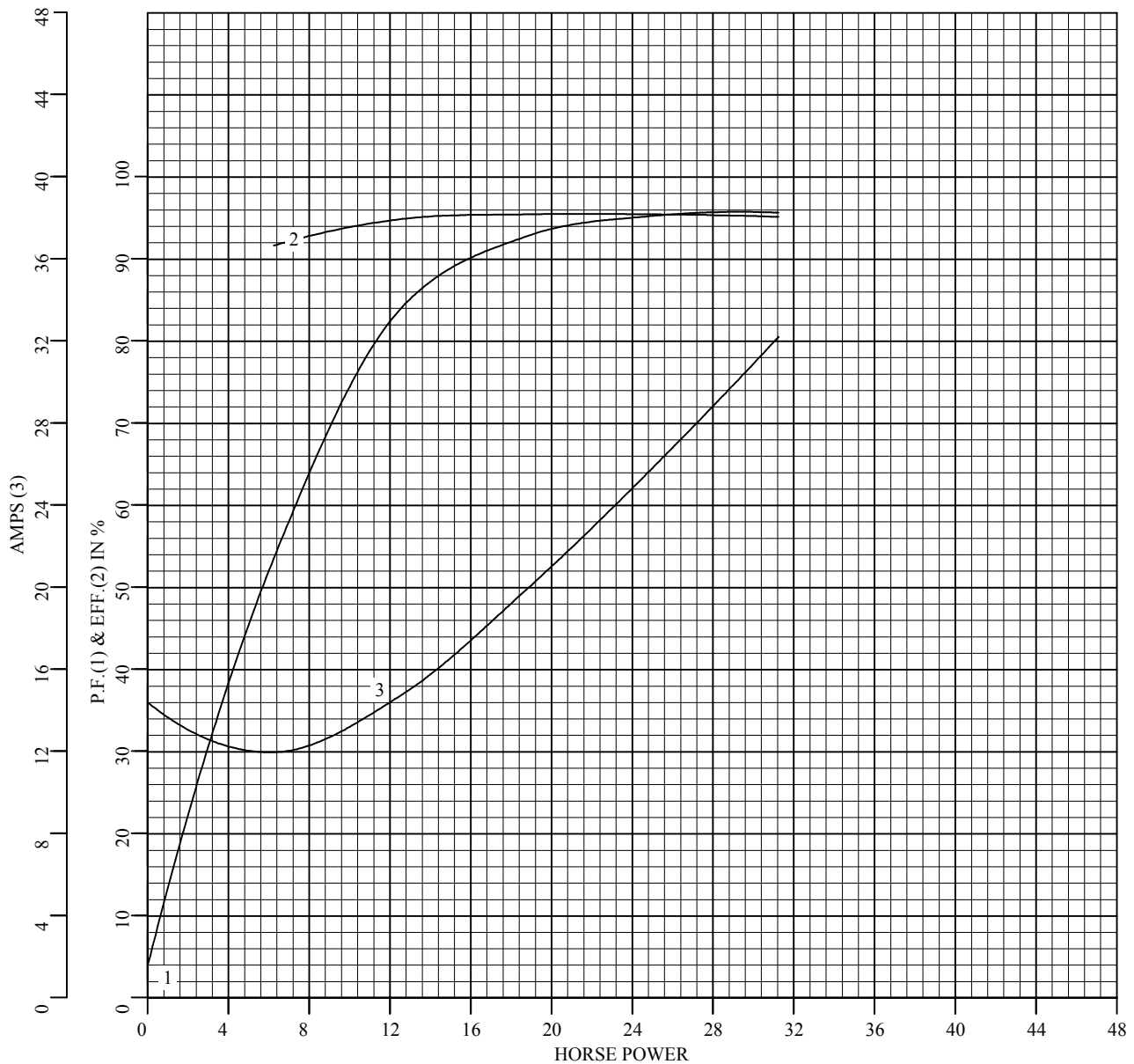
Amps & Torque vs. RPM During Acceleration



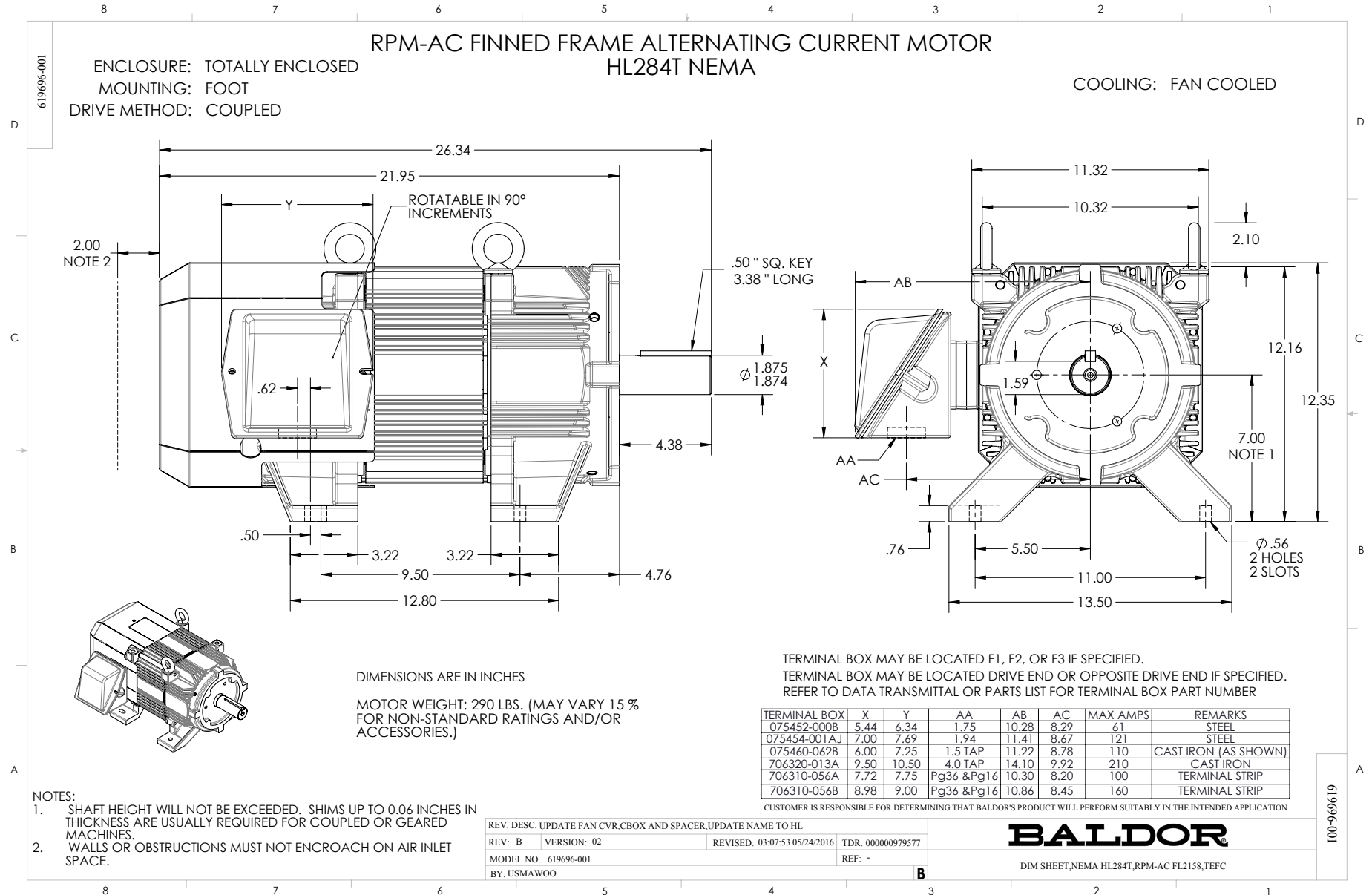
TYPICAL DATA

S.O.	--	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	HL284T	RPM	1800	INSUL	H	WK ² (lb-ft ²)	1.82
HP	25	VOLTS	460	S.F.	1.15	NEMA DESIGN	B
TYPE	PSM	AMPS	25.8	ENCL	TEFC	STATOR RES. @ 25°C	.4081
PHASE	3	DUTY	CONT			OHMS (BETWEEN LINES)	

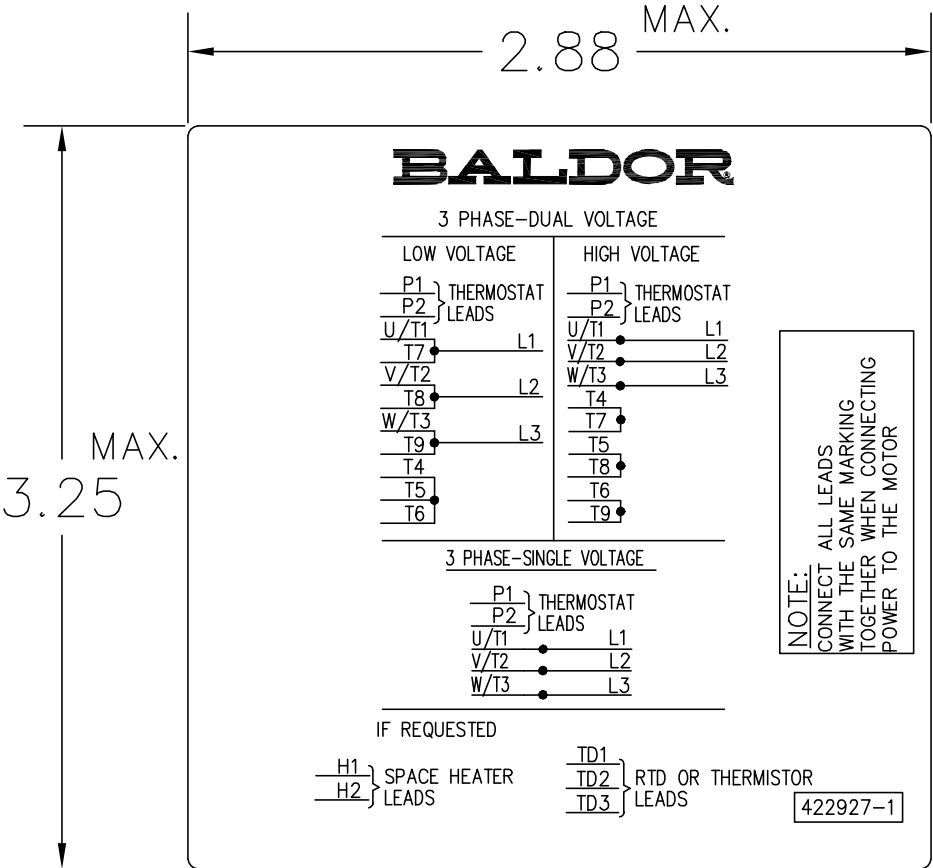
Performance Data vs. HP At Synchronous Speed



TYPICAL DATA



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