ABB BALDOR RELIANCE

Customer information packet

L3612TM

5HP, 1725RPM, 1PH, 60HZ, 184T, 3646LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	F
Type	AC
Mech. spec.	36G787
Base	
Status	PRD/A
Elec. spec.	36WGW279
Layout	36LYG787
Eff. date	05-09-2024
CD Diagram	CD0152
Poles	04
Leads	2#10 A PH,3#16 B&J
Proprietary	False
Created date	03-02-2010

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.04 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	L3612TM								
SPEC.	36G787W279G7								
HP	5								
VOLTS	230								
AMP	23								
RPM	1725								
FRAME	184T		**HZ**	60		**PH**	1		
SER.F.	1.00	**CODE**	J	**DES**	L	**CL**	F		
NEMA-NOM-EFF	80	**PF**	88						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data
Record # 10712
Typical performance - not guaranteed values

Winding: 36WGW279-R001	**Type:** 3646LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			23	**Breakdown Torque**	43 LB-FT
R.P.M.			1725	**Pull-up Torque**	36 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	46 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	163 A
Service Factor (S.F.)			1	**No-load Current**	10 A
NEMA Nom. Eff.	80	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.353 Ω A Ph 2.23 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	97°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	54	71	85	89	89	91
Efficiency	65	76.1	81.5	80.8	79.3	75.5
Speed	1786	1769	1750	1732	1713	1687
Line amperes	12.7	14	18.5	22.6	27.3	33.5

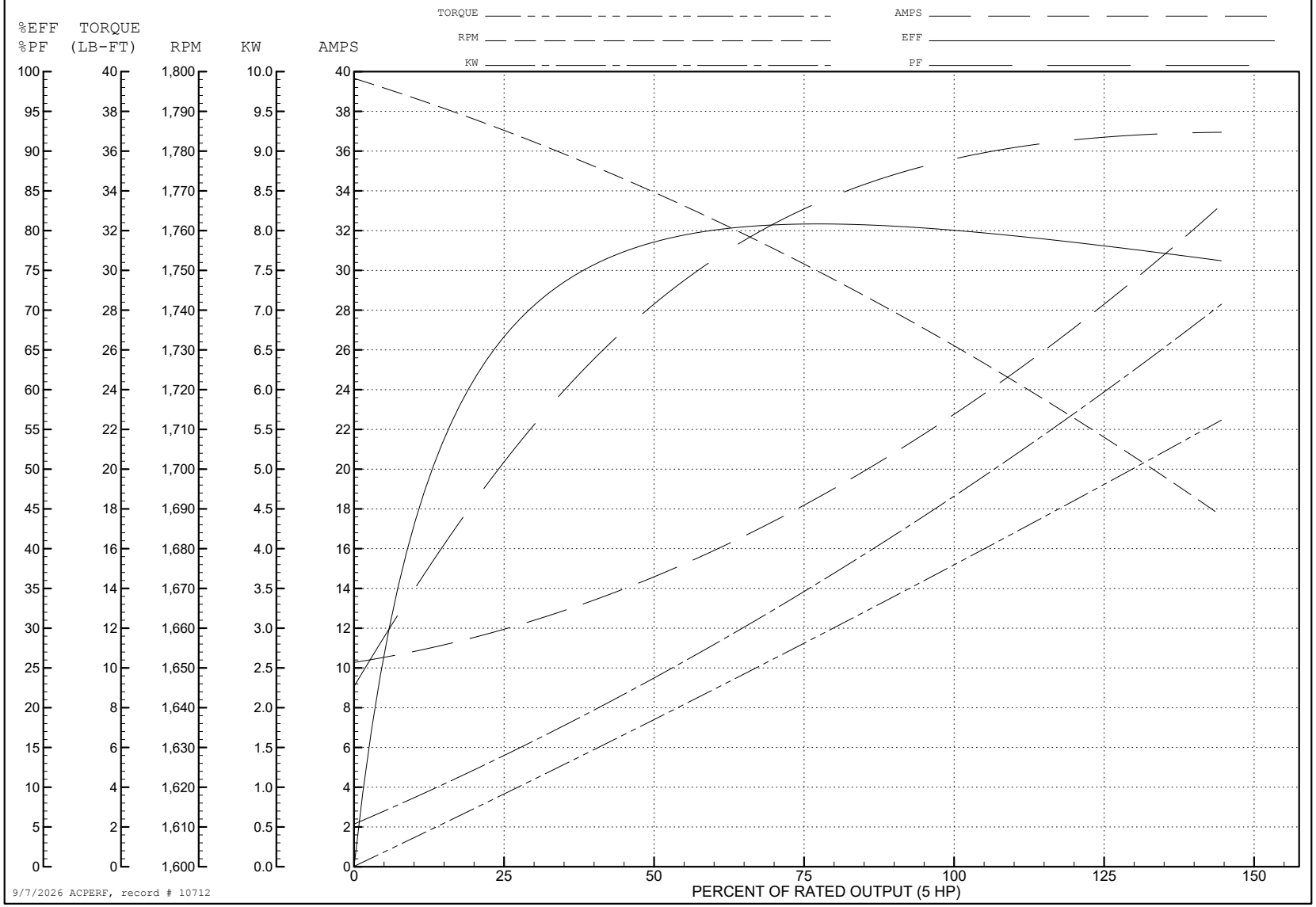
ABB Motors and Mechanical Inc.

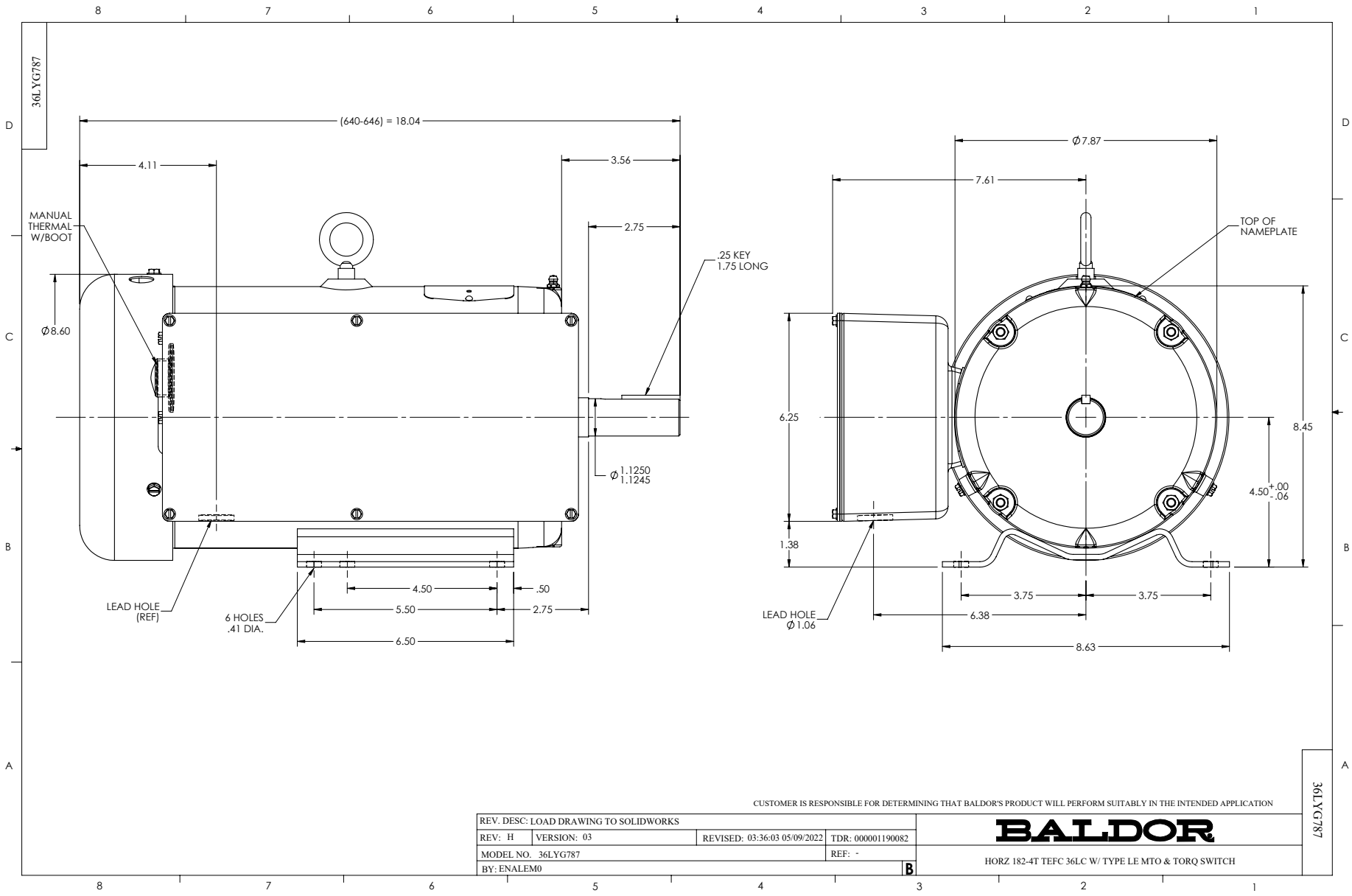
WINDING # 36WGW279

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

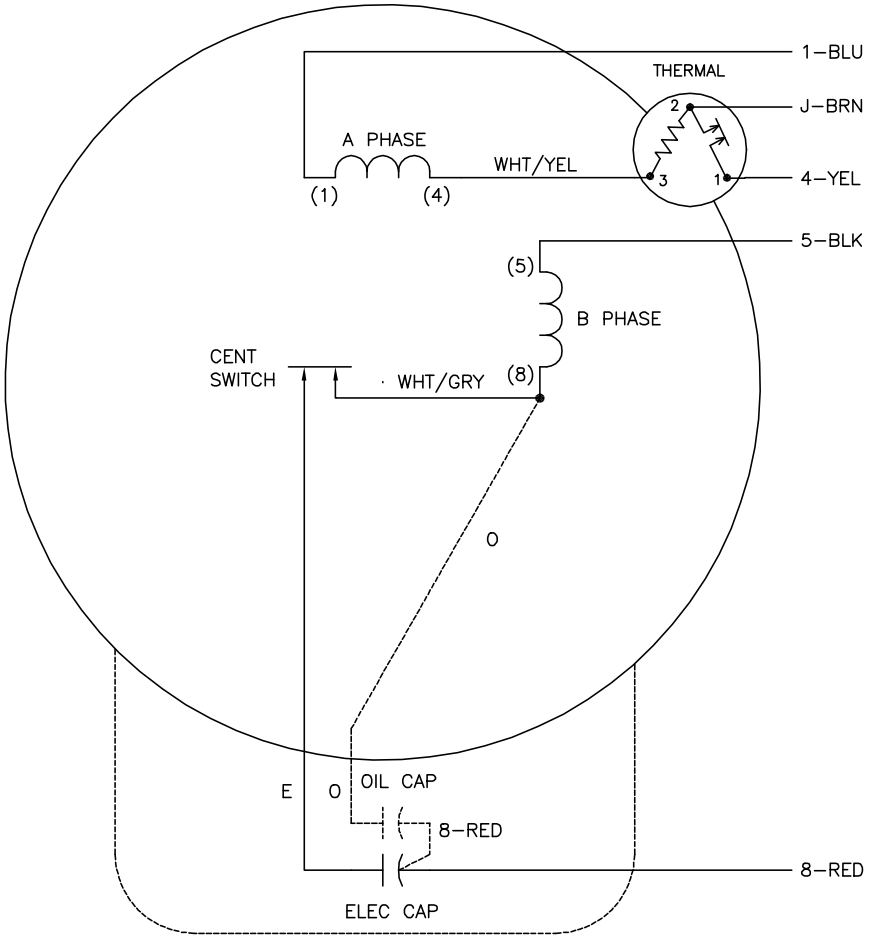
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=43 PU=36 LR=46 LRA=163




36LYG787
(640-646) = 18.04
4.11
3.56
2.75
MANUAL THERMAL W/BOOT
Ø8.60
.25 KEY 1.75 LONG
Ø1.1250 1.1245
LEAD HOLE (REF)
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
7.61
TOP OF NAMEPLATE
6.25
8.45
4.50 +.00 -.06
1.38
LEAD HOLE Ø1.06
3.75
3.75
6.38
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: H
VERSION: 03
REVISED: 03:36:03 05/09/2022
TDR: 000001190082
MODEL NO. 36LYG787
REF: -
BY: ENALEM0
B
BALDOR
HORZ 182-4T TEFC 36LC W/ TYPE LE MTO & TORQ SWITCH
36LYG787

CD0152



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
4. CAPACITORS MAY BE SEPERATELY MOUNTED.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000373039	
CD0152	FILE: \AAA\00026\903	REVISED: 11:23:45 08/11/2005	TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD
	MTL: –	BY: ENJOEP0	

CD0152