ABB BALDOR RELIANCE

Customer information packet

CL3612TM

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

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Specifications

Enclosure	TEFC
Frame	184TC
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	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CE
	C UR US
	WEEE
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
	23.600 A @ 208.0 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

Part Detail

Revision	AY
Type	AC
Mech. spec.	36F189
Base	
Status	PRD/A
Elec. spec.	36WGW279
Layout	36LYF189
Eff. date	06-05-2025
CD Diagram	CD0152
Poles	04
Leads	2#10 A PH,3#16 B&J
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko 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	18.05 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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.	CL3612TM									
SPEC.	36F189W279									
HP	5									
VOLTS	208-230									
AMP	23.6-23									
RPM	1725									
FRAME	184TC		**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**								

AC Induction Motor Performance Data
Record # 31833
Preliminary Data Sheet

Winding: 36WGW279-R003	**Type:** 3646LC	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15.1 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			23.6-23	**Breakdown Torque**	34.5 LB-FT
R.P.M.			1725	**Pull-up Torque**	29.6 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	37.9 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	146 A
Service Factor (S.F.)			1	**No-load Current**	6.67 A
NEMA Nom. Eff.	80	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.349 Ω A Ph 1.42 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	92°C

Load Characteristics 208 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	64	88	88	92	94	93
Efficiency	70.7	79.5	83.4	81.5	78.7	73.4
Speed	1784	1765	1743	1721	1697	1662
Line amperes	10.2	12.9	18.4	23.6	29.6	37.8

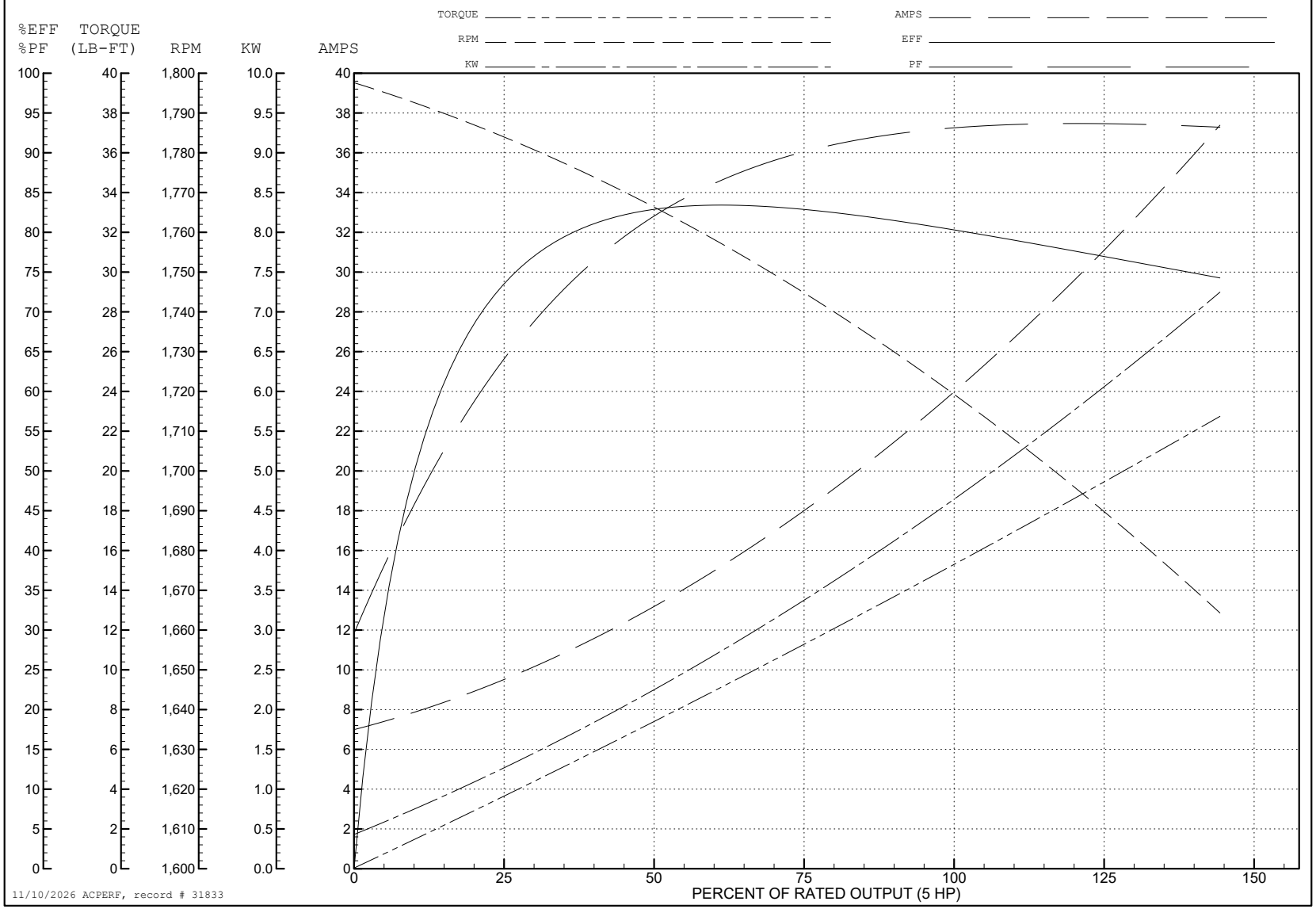
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WINDING # 36WGW279

5 HP 1 PH 60 HZ 1725 RPM 208 V 3646LC

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=34.5 PU=29.6 LR=37.9 LRA=146



AC Induction Motor Performance Data
Record # 40091
Typical performance - not guaranteed values

Winding: 36WGW279-R003	**Type:** 3646LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			23.6-23	**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

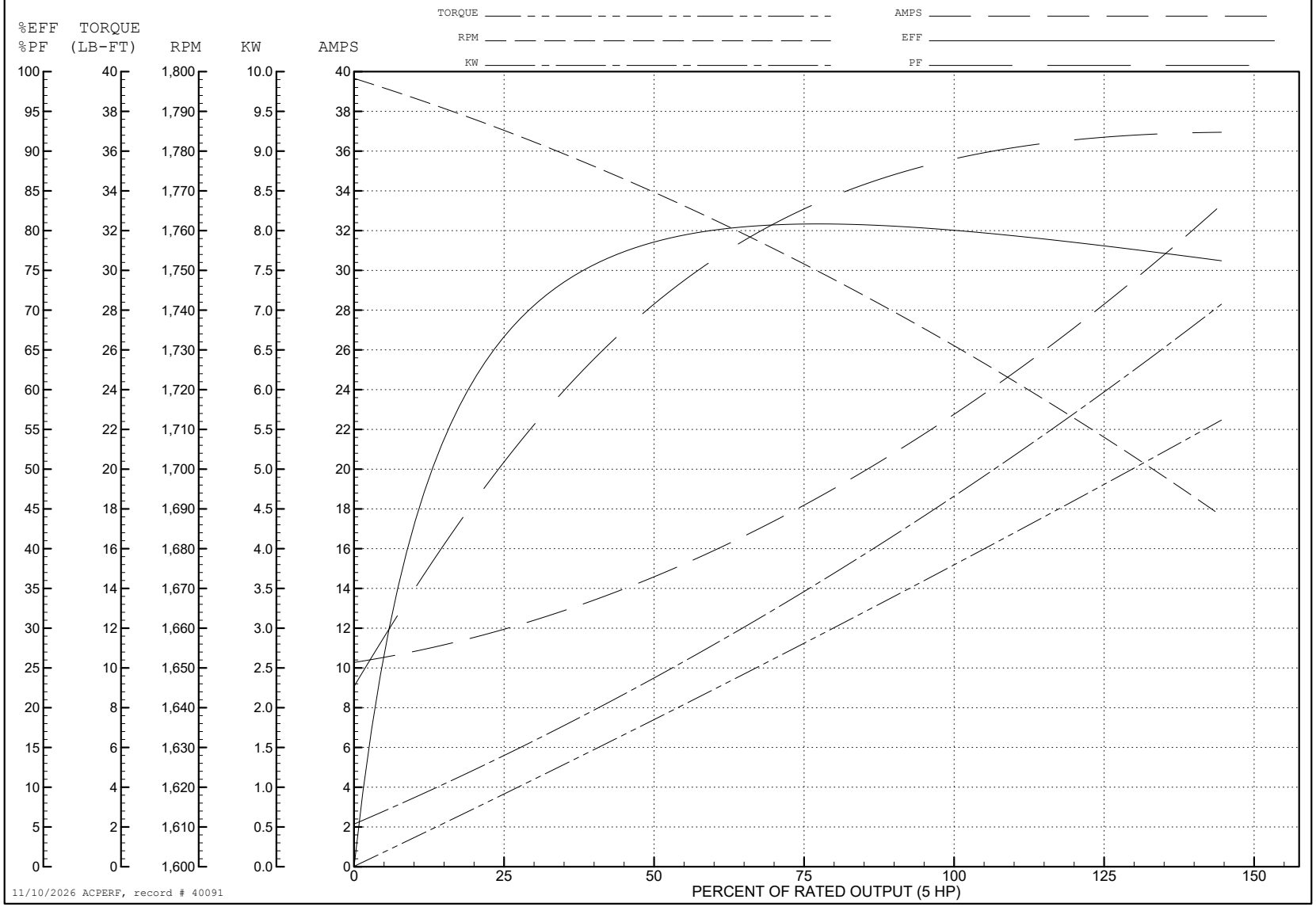
ABB Motors and Mechanical Inc.

WINDING # 36WGW279

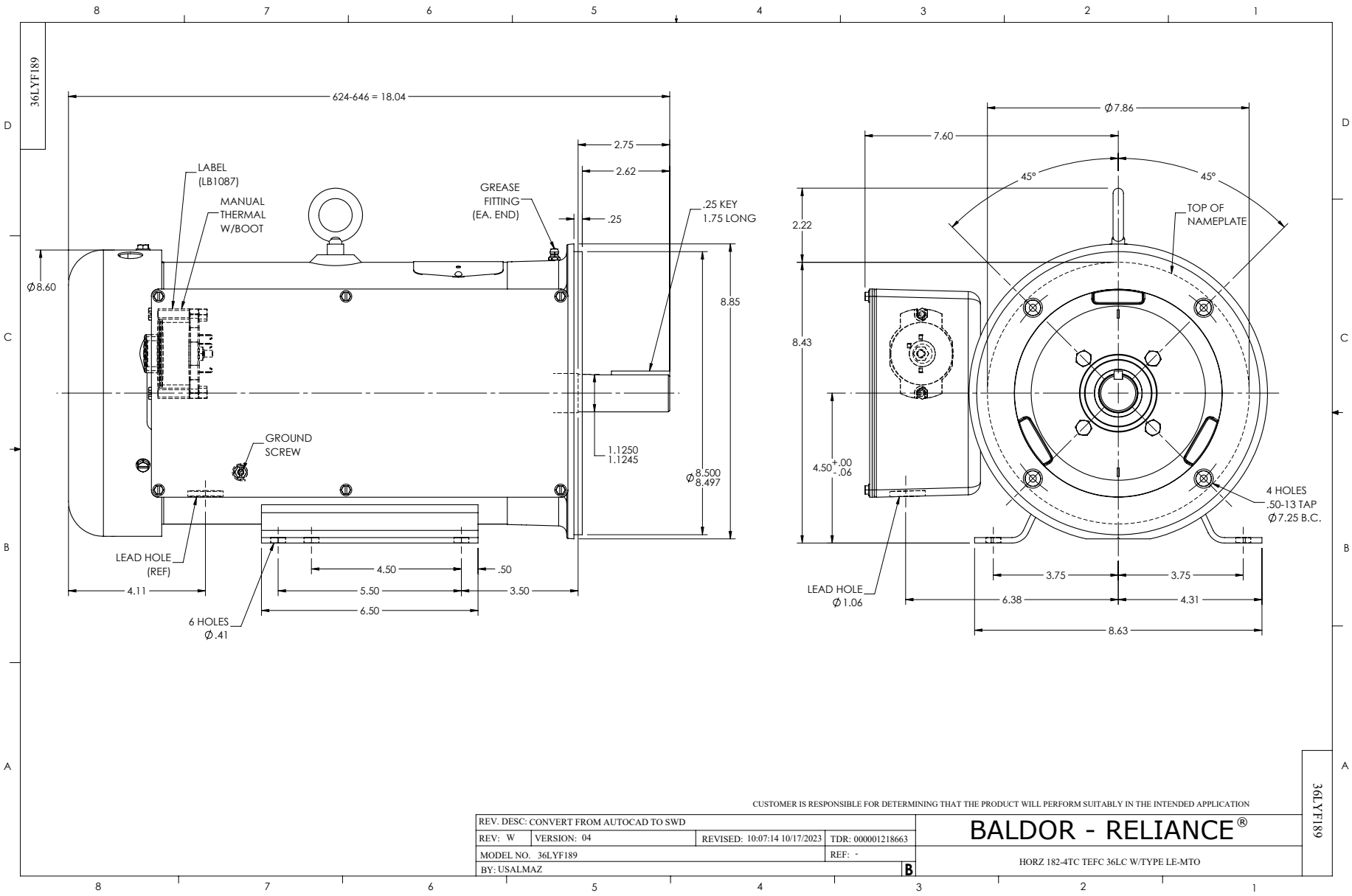
5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

Typical performance - not guaranteed values.

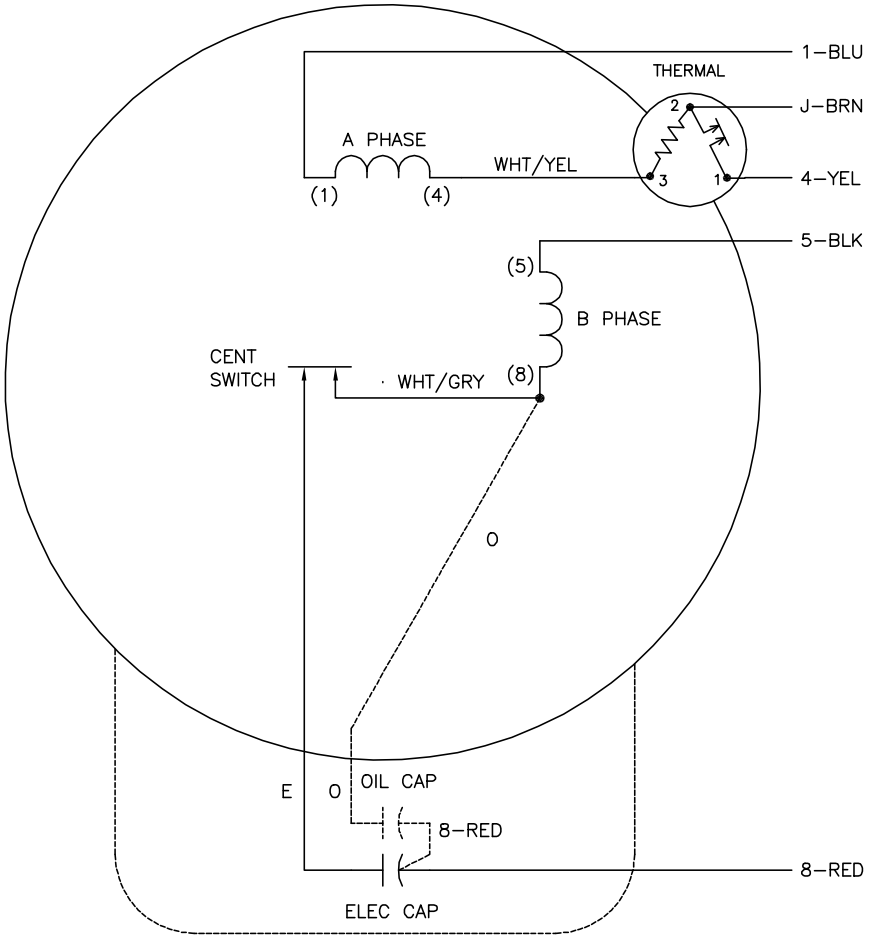
TORQUES(LB-FT): PO=43 PU=36 LR=46 LRA=163



11/10/2026 ACPERF, record # 40091


36LYF189
624-646 = 18.04
LABEL
(LB1087)
MANUAL
THERMAL
W/BOOT
GREASE
FITTING
(EA. END)
2.75
2.62
.25
.25 KEY
1.75 LONG
Ø8.60
8.85
GROUND
SCREW
1.1250
1.1245
Ø8.500
8.497
LEAD HOLE
(REF)
4.11
4.50
.50
5.50
3.50
6.50
6 HOLES
Ø.41
Ø7.86
7.60
45°
45°
TOP OF
NAMEPLATE
2.22
8.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
Ø1.06
3.75
3.75
6.38
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: W
VERSION: 04
REVISED: 10:07:14 10/17/2023
TDR: 000001218663
MODEL NO. 36LYF189
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 182-4TC TEFC 36LC W/TYPE LE-MTO
36LYF189

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