

ABB BALDOR RELIANCE III

Customer information packet

CL3612TM

5HP, 1725RPM, 1PH, 60HZ, 184TC, 3646LC, TEFC

Class - None

Division - Not Applicable

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. @ 25°C	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

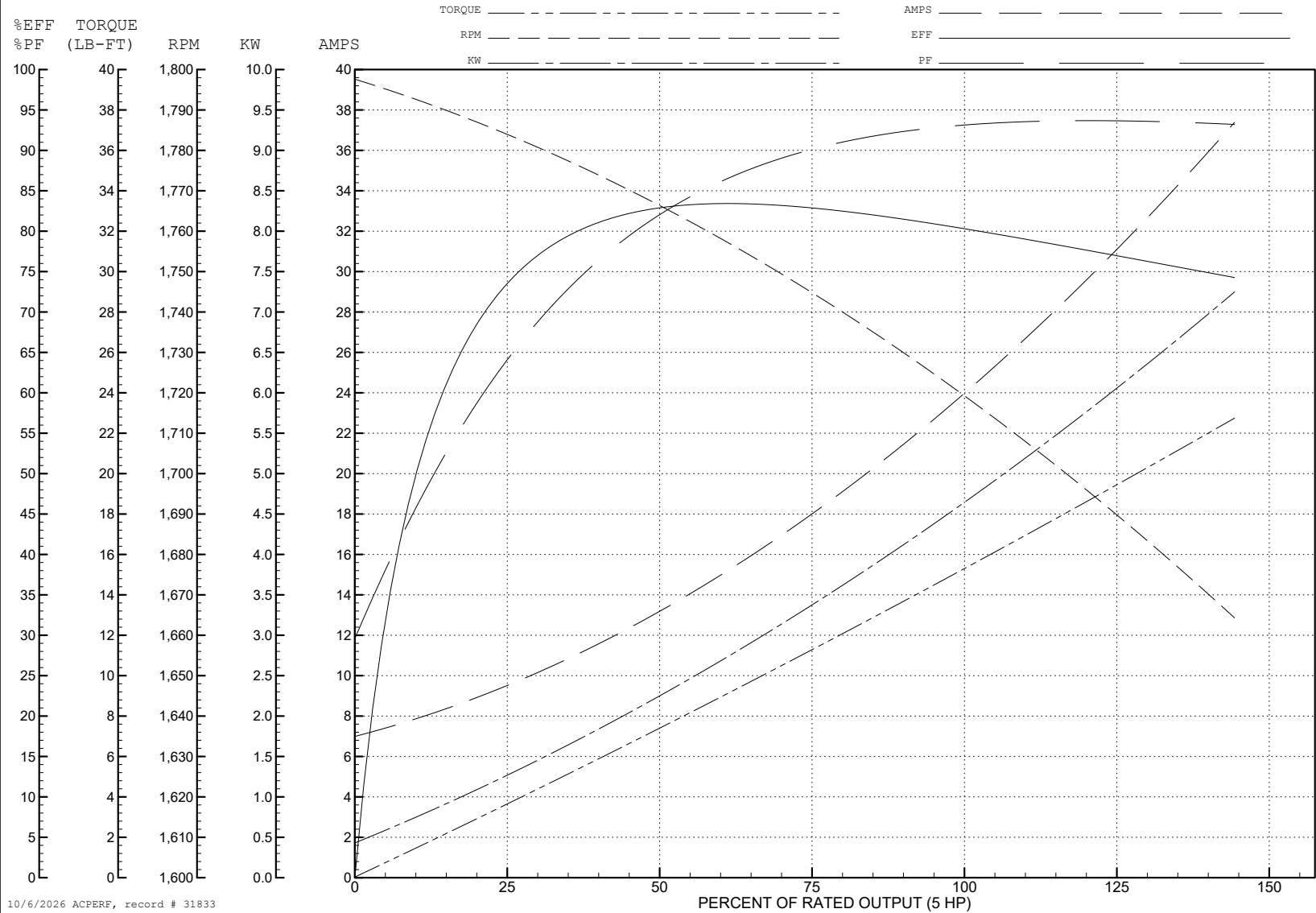
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WINDING # 36WG279

Typical performance - not guaranteed values.

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

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. @ 25°C		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

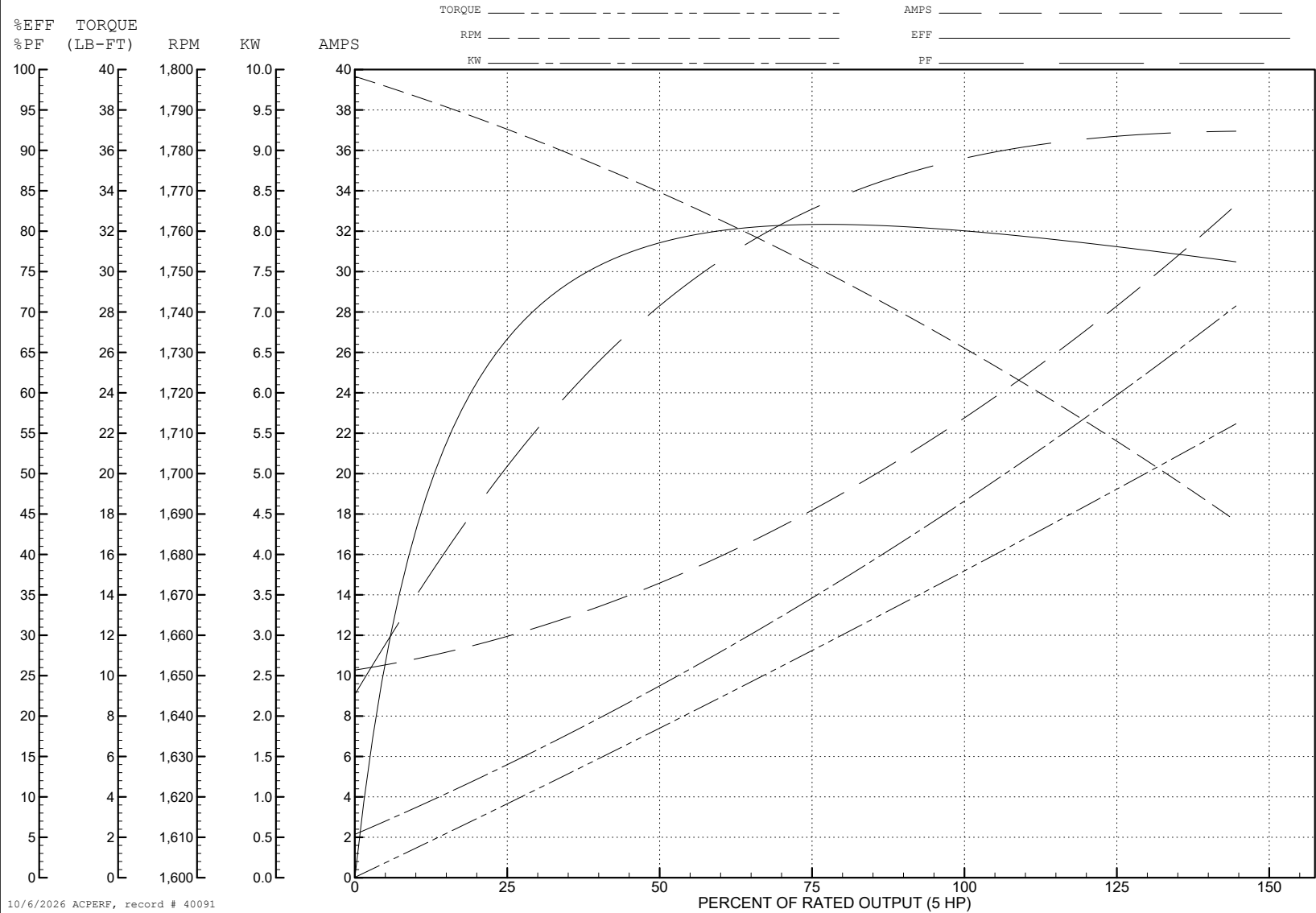
ABB Motors and Mechanical Inc.

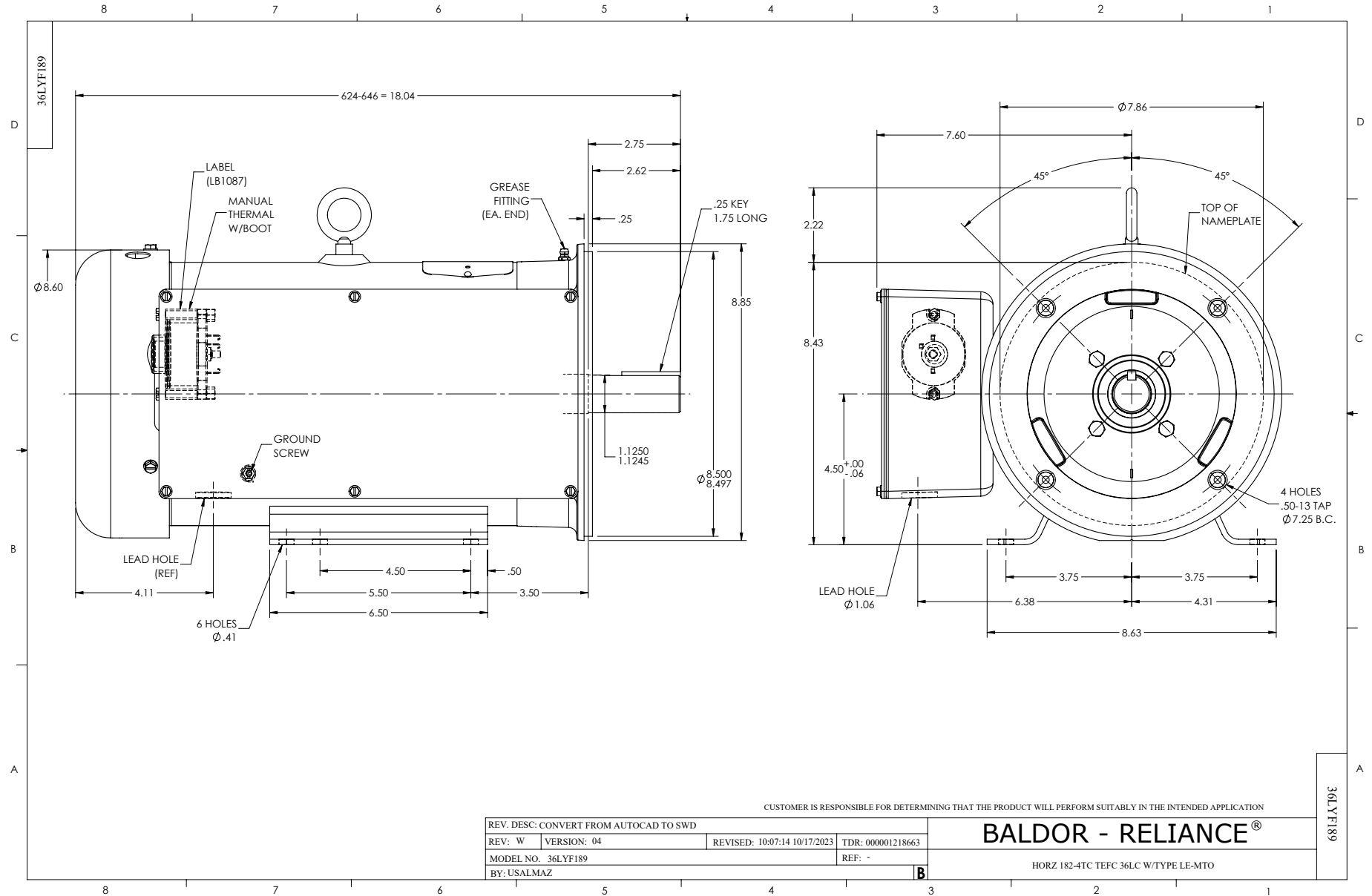
WINDING # 36WG279

Typical performance - not guaranteed values.

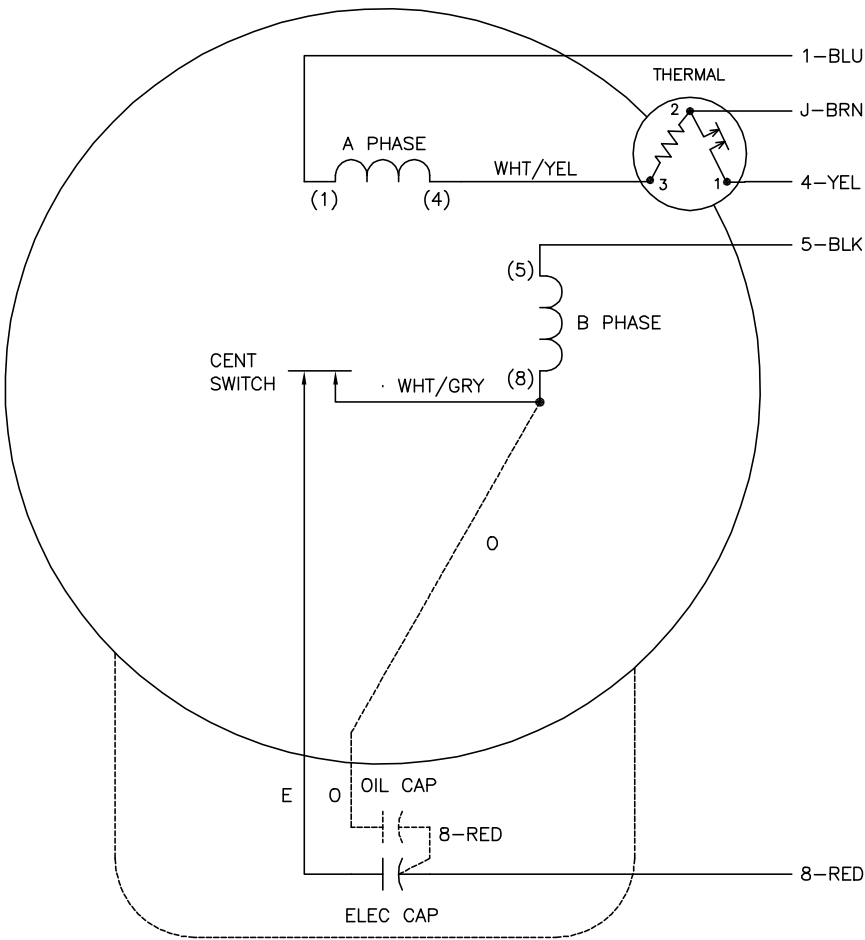
5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

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





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		
REV. LTR: D	VERSION: 01	TDR: 000000373039
CD0152	FILE: \AAA\00026\903	REVISED: 11:23:45 08/11/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD

CD0152