

**BALDOR • RELIANCE**

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# Customer information packet

## M1706T

2/1HP, 1725/850RPM, 3PH, 60HZ, 184T, 3628M

Class - None

Division - Not Applicable

## 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	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
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	2.6 a
Insulation Class	F
Inverter Code	Not Inverter

## Part detail

Revision	AC
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WG2848
Layout	36LYA001
Eff. date	10-02-2024
CD Diagram	CD0011
Poles	04/08
Leads	6#16
Proprietary	False
Created date	01-01-0001

<b>KVA Code</b>	D
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	6 @ 16 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3628M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4 8
<b>Overall Length</b>	16.54 IN
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1725 rpm 850 rpm
<b>Speed Code</b>	2S-1W-CT
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1256L</b>									
<b>CAT.NO.</b>	M1706T								
<b>SPEC.</b>	36A01-2848								
<b>HP</b>	2/1								
<b>VOLTS</b>	460								
<b>AMP</b>	2.8/2.6								
<b>RPM</b>	1725/850								
<b>FRAME</b>	184T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	D	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>		<b>PF</b>							
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6206		<b>ODE</b>	6205					
<b>ENCL</b>	TEFC	<b>SN</b>							

**Accessories**

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

**AC Induction Motor Performance Data**

Record # 10540

Typical performance - not guaranteed values

<b>Winding:</b> 36WG2848-R005		<b>Type:</b> 3628M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Speed Connection</b>		
<b>Rated Output (HP)</b>	2/1	<b>Full Load Torque</b>	6.2 LB-FT		
<b>Volts</b>	460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	2.8/2.6	<b>Breakdown Torque</b>	18 LB-FT		
<b>R.P.M.</b>	1725/850	<b>Pull-up Torque</b>	14 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	14 LB-FT	
<b>NEMA Design Code</b>	B	<b>KVA Code</b>	D	<b>Starting Current</b>	12.5 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	0.85 A	
<b>NEMA Nom. Eff.</b>	0	<b>Power Factor</b>	0	<b>Line-line Res. @ 25°C</b>	13 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>		

**Load Characteristics 460 V, 60 Hz, 2 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	59	76	82	84	85	90	85
<b>Efficiency</b>	78	81	79	76	71	70.6	74
<b>Speed</b>	1760	1722	1680	1628	1571	1560	1606
<b>Line amperes</b>	1.15	1.6	2.15	2.8	3.5	4.44	3.27

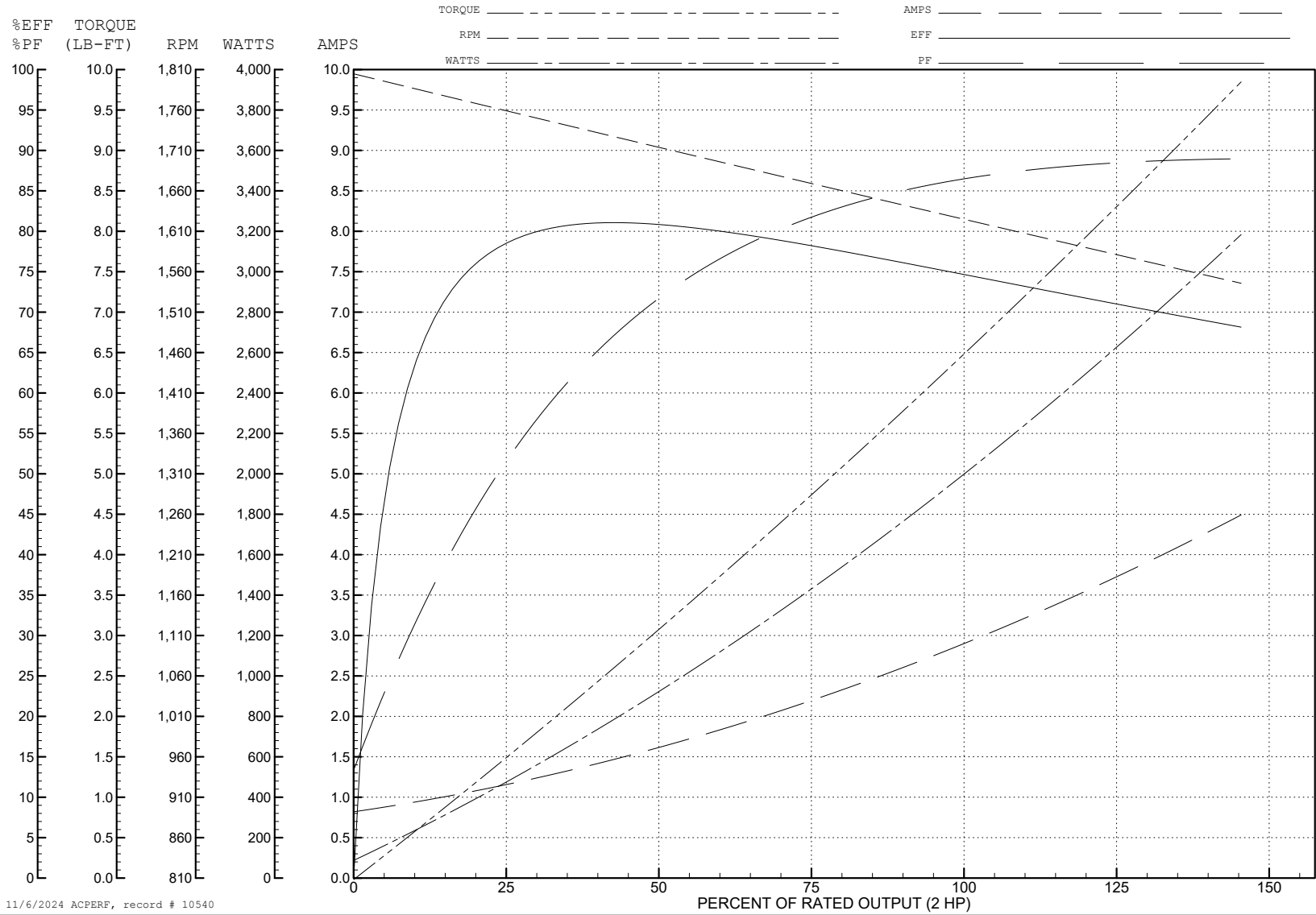
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WINDING # 36WG2848

2 HP 3 PH 60 HZ 1628 RPM 460 V 3628M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=18 PU=14 LR=14 LRA=12.5



11/6/2024 ACPERF, record # 10540

**AC Induction Motor Performance Data**

Record # 10541

Typical performance - not guaranteed values

Winding: 36WG2848-R005		Type: 3628M	Enclosure: TEFC		
<b>Nameplate Data</b>		<b>460 V, 60 Hz: Low Speed Connection</b>			
Rated Output (HP)	2/1	Full Load Torque	6.1 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	2.8/2.6	Breakdown Torque	21 LB-FT		
R.P.M.	1725/850	Pull-up Torque	17 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	18 LB-FT	
NEMA Design Code	B	KVA Code	D	Starting Current	10.5 A
Service Factor (S.F.)			1.15	No-load Current	2.35 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	17.2 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	

**Load Characteristics 460 V, 60 Hz, 1 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	33	43	50	57	62	54
Efficiency	44	59	65	67	68	67	67.4
Speed	886	874	860	845	830	814	838
Line amperes	2.4	2.45	2.55	2.7	2.95	3.2	2.83



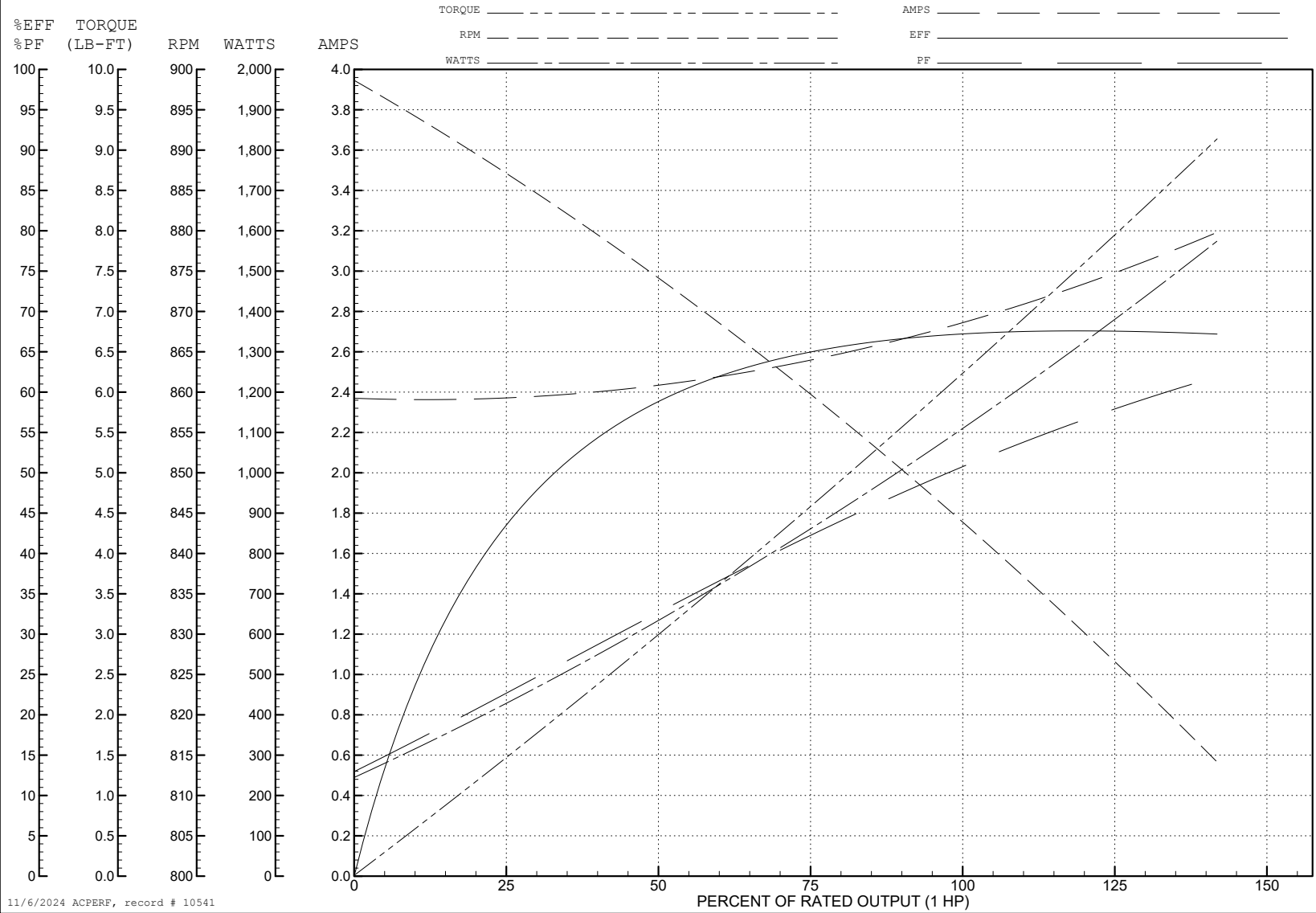
ABB Motors and Mechanical Inc.

WINDING # 36WG2848

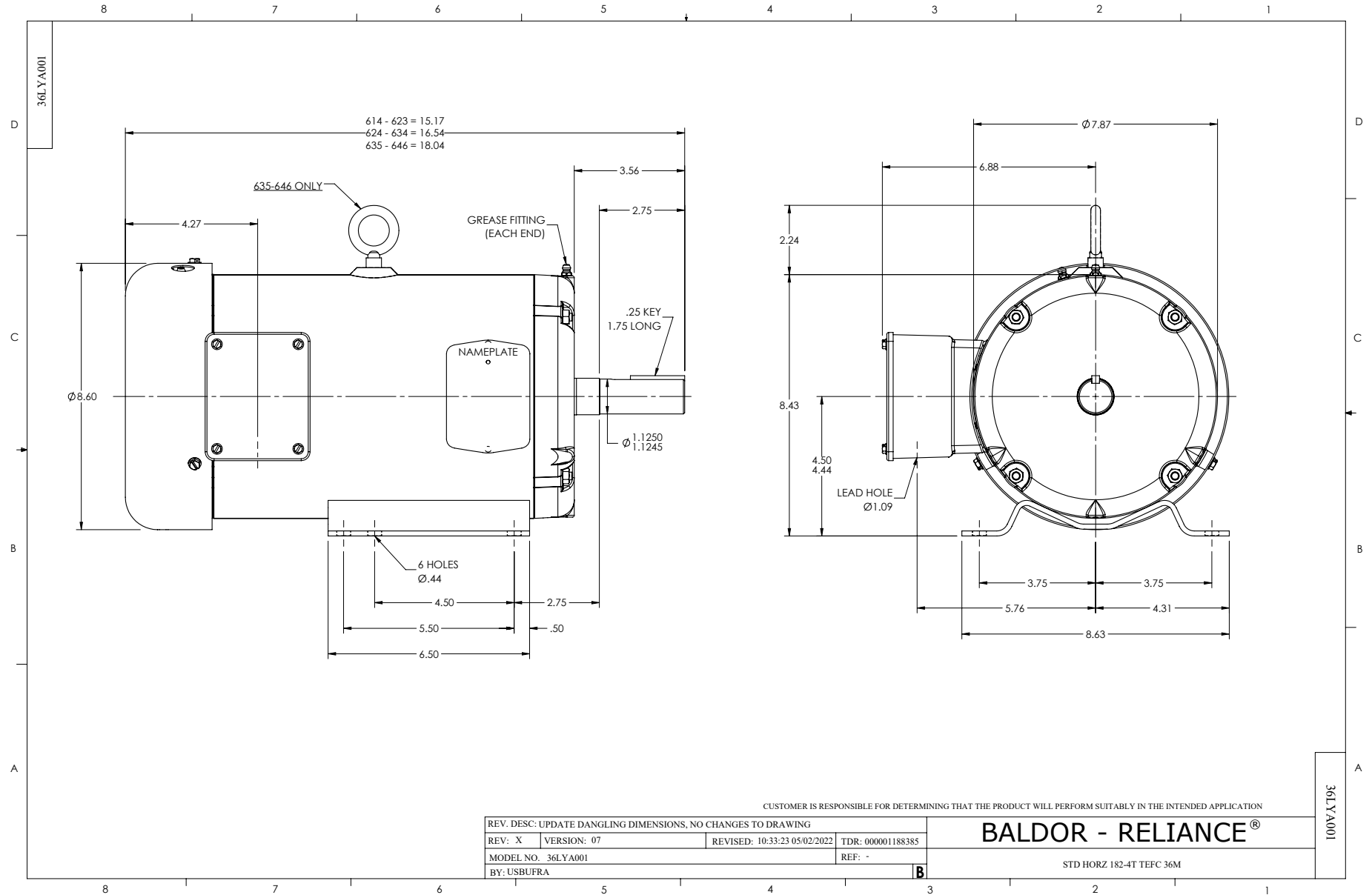
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 845 RPM 460 V 3628M

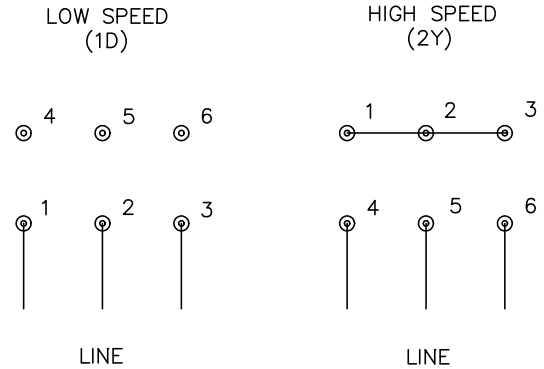
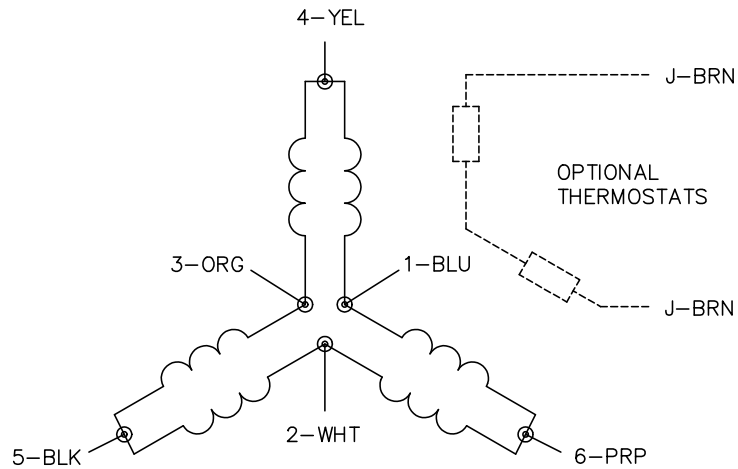
TORQUES (LB-FT): PO=21 PU=17 LR=18 LRA=10.5



11/6/2024 ACPERF, record # 10541



CD0011



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0011

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
110000		FILE: DWG\142.wg	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING CONSTANT TORQUE