

ABB BALDOR RELIANCE III

Customer information packet

M1707T

3/1.5HP, 1725/850RPM, 3PH, 60HZ, 184T, 3640M

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	3.000 HP @ 60 HZ 1.500 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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 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	4.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AC
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGW675
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#16
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	18.04 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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
	850 rpm
Speed Code	2S-1W-CT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	M1707T								
SPEC.	36A01W675								
HP	3/1.5								
VOLTS	460								
AMP	4.2/4.4								
RPM	1725/850								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	-	CLASS	F		
NEMA-NOM-EFF		PF							
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 # 10816

Typical performance - not guaranteed values

Winding: 36GW675-R001			Type: 3640M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		3/1.5	Full Load Torque		9.1 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		4.2/4.4	Breakdown Torque		32 LB-FT	
R.P.M.		1725/850	Pull-up Torque		20 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		31.5 LB-FT	
NEMA Design Code		B KVA Code	K	Starting Current		32.7 A
Service Factor (S.F.)		1.15	No-load Current		1.8 A	
NEMA Nom. Eff.		0 Power Factor	0	Line-line Res. @ 25°C		6.13 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		70°C	
S.F. Amps			Temp. Rise @ S.F. Load		83°C	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	68	78	84	87	89	86
Efficiency	74.1	81.5	82.9	82.3	80.9	78.5	81.5
Speed	1787	1772	1759	1742	1725	1702	1732
Line amperes	2.1	2.7	3.3	4.2	5	6	4.68

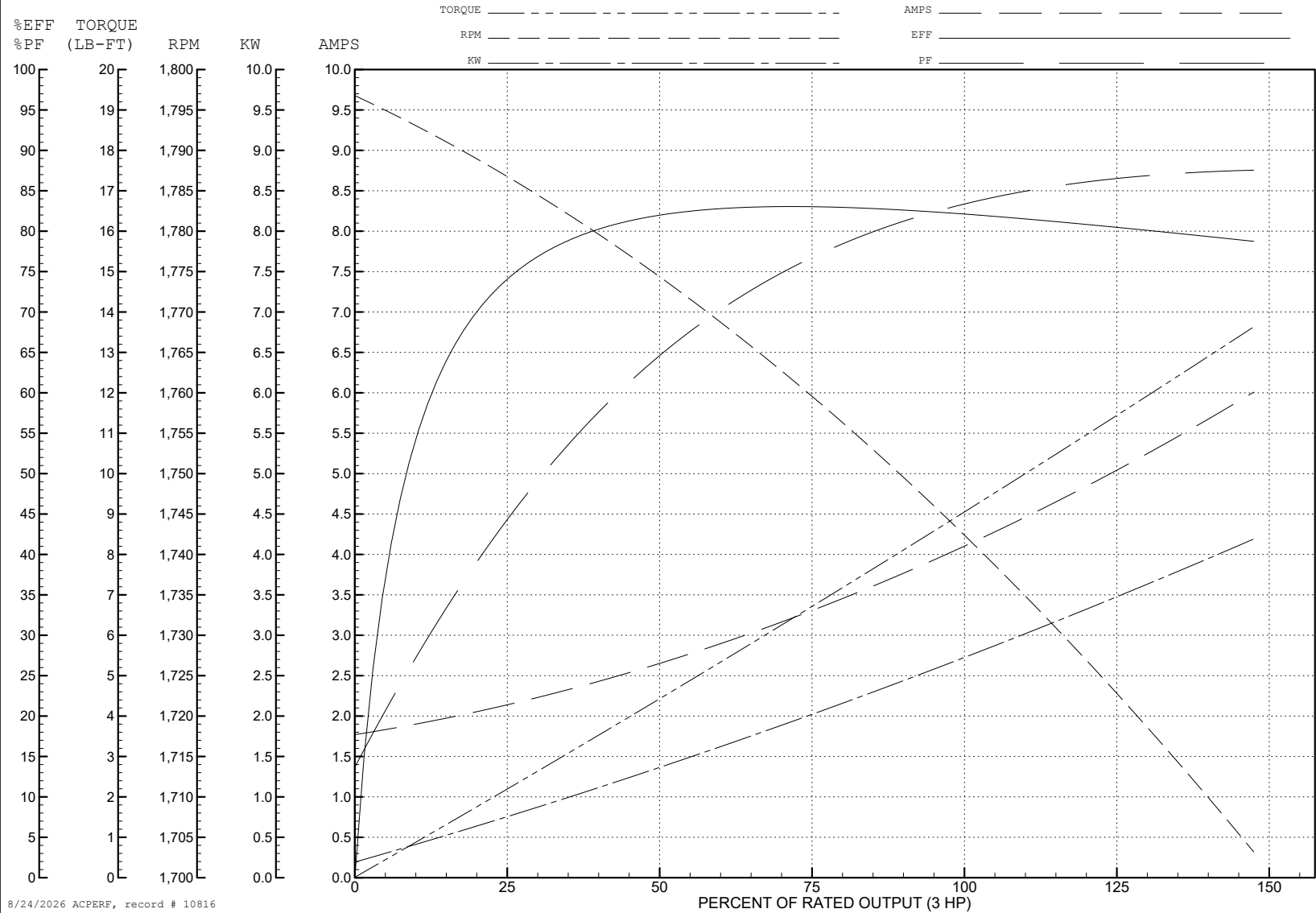
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WINDING # 36WGW675

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1742 RPM 460 V 3640M

TORQUES (LB-FT): PO=32 PU=20 LR=31.5 LRA=32.7



AC Induction Motor Performance Data

Record # 10817

Typical performance - not guaranteed values

Winding: 36GW675-R001			Type: 3640M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Low Speed Connection				
Rated Output (HP)		3/1.5	Full Load Torque		9.1 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		4.2/4.4	Breakdown Torque		36 LB-FT		
R.P.M.		1725/850	Pull-up Torque		29 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		31.1 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		19.1 A
Service Factor (S.F.)		1.15		No-load Current		3.7 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		8.34 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		89°C	
S.F. Amps				Temp. Rise @ S.F. Load		98°C	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	22	33	42	51	57	63	55
Efficiency	48.5	64.2	70.2	72.8	73.6	73.3	73.3
Speed	892	883	876	866	856	845	860
Line amperes	3.8	3.9	4.2	4.4	4.7	5.2	4.6

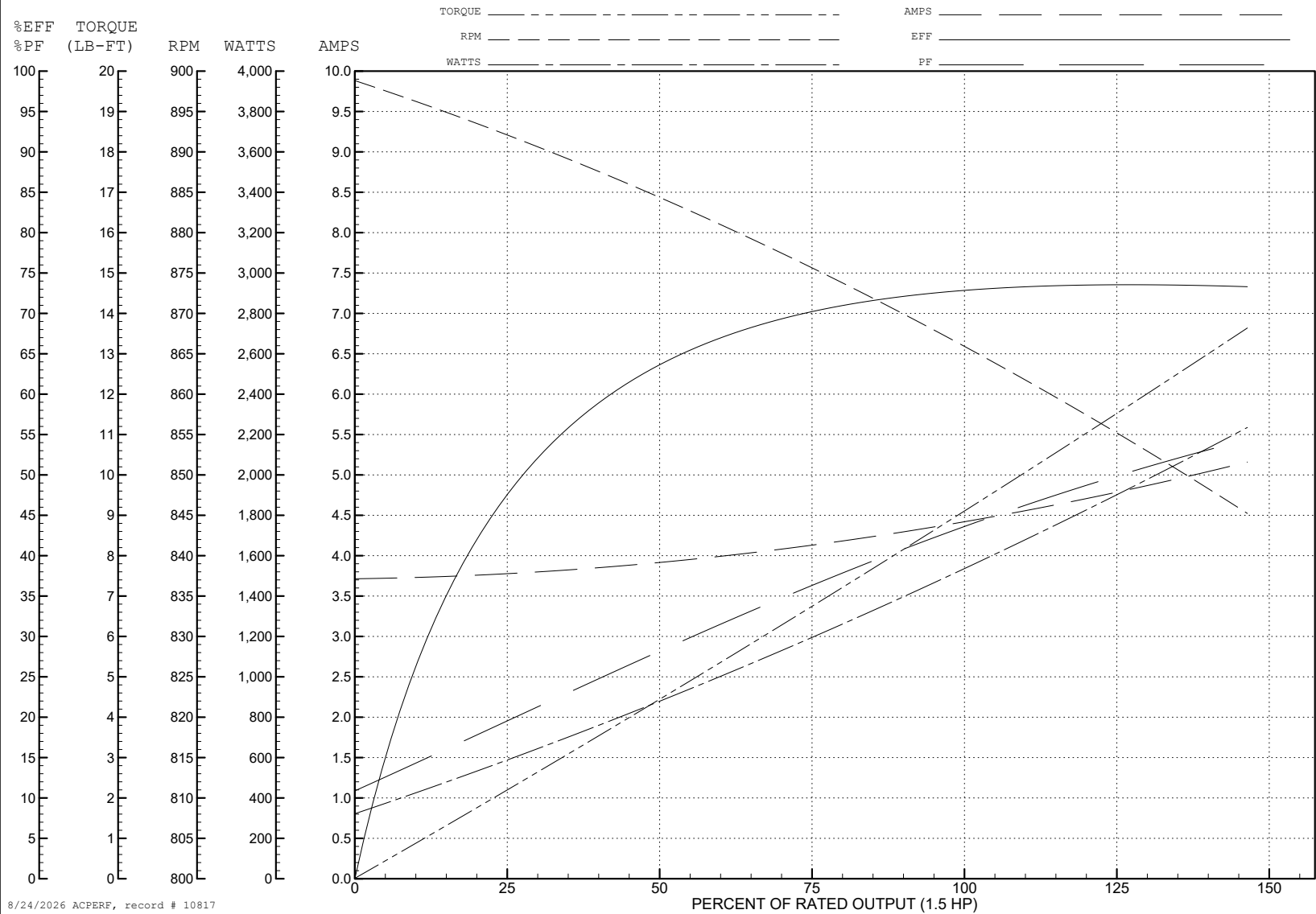
ABB Motors and Mechanical Inc.

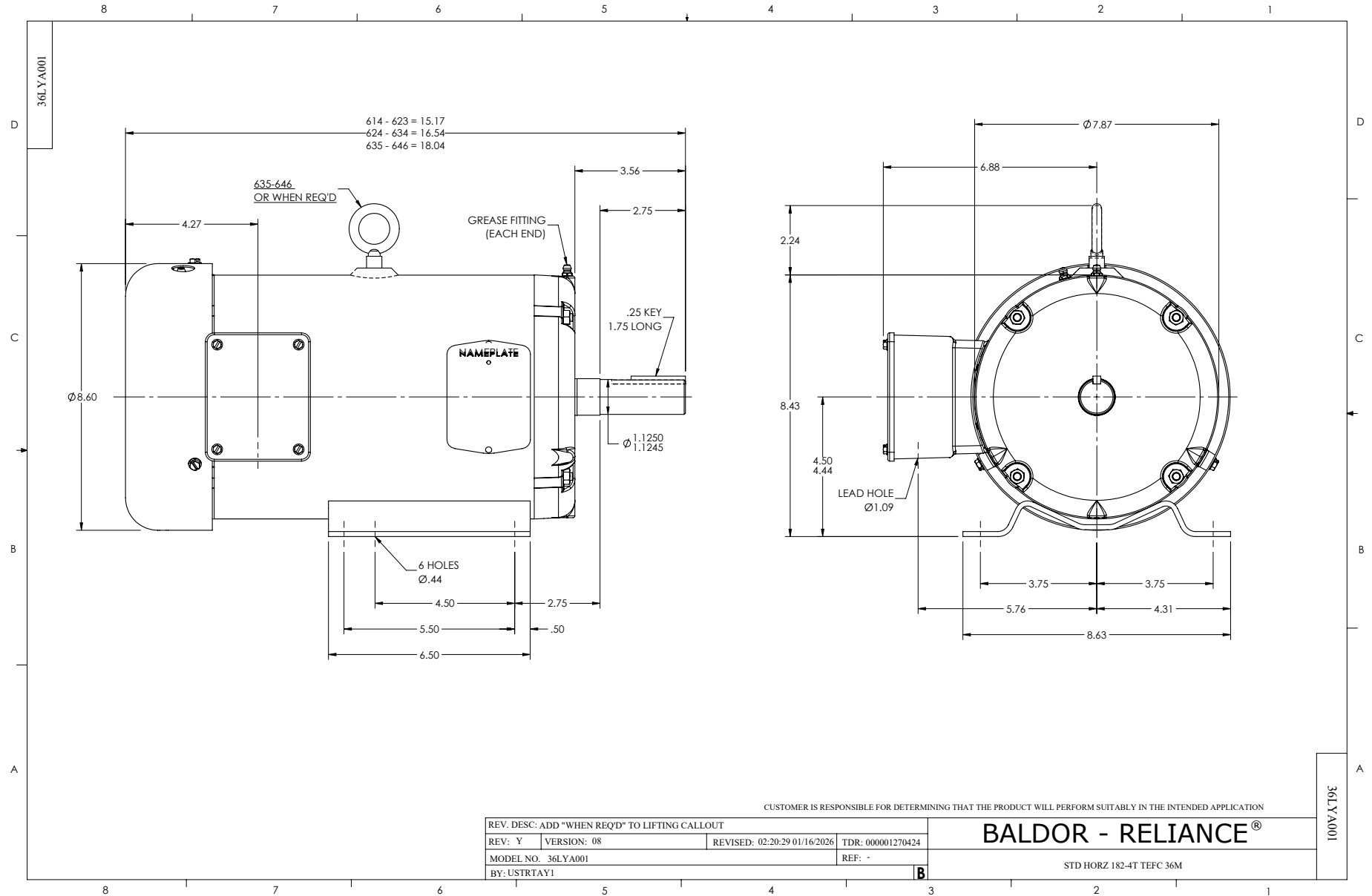
WINDING # 36WG675

Typical performance - not guaranteed values.

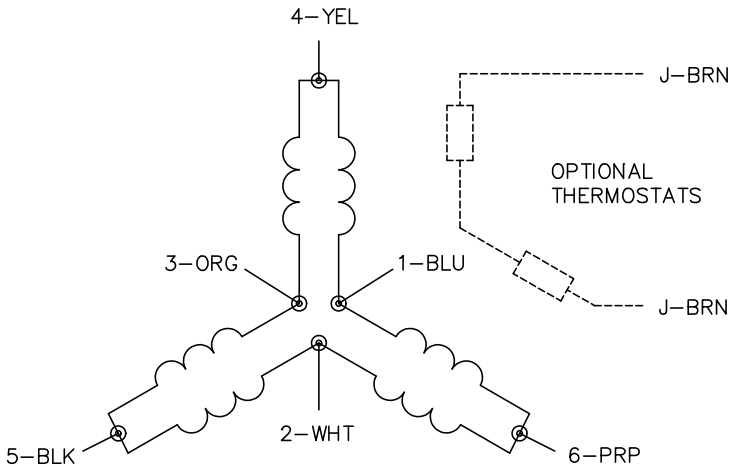
1.5 HP 3 PH 60 HZ 866 RPM 460 V 3640M

TORQUES (LB-FT): PO=36 PU=29 LR=31.1 LRA=19.1

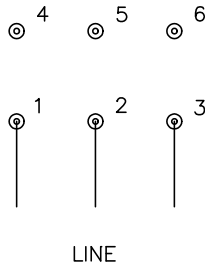




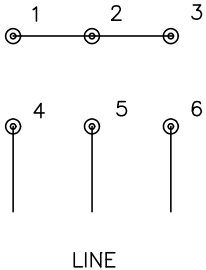
CD0011



LOW SPEED
(1D)



HIGH SPEED
(2Y)



- 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.

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

CD0011