

ABB BALDOR RELIANCE III

Customer information packet

M1010T

10/2.5HP, 1730/860RPM, 3PH, 60HZ, 213T, 3742M

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	213T
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	2.500 HP @ 60 HZ 10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	24.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H

Part Detail

Revision	D
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGZ659
Layout	37LYB001
Eff. date	09-05-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#10
Proprietary	False
Created date	12-14-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	17.45 IN
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1730 rpm 860 rpm
Speed Code	2S-1W-VT
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.	M1010T								
SPEC.	37B001Z659								
HP	10/2.5								
VOLTS	230								
AMP	24.4/9.2								
RPM	1730/860								
FRAME	213T		HZ	60			PH	3	
SER.F.	1.00	CODE	H	DES	B	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	OPEN	SN							

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 85836

Typical performance - not guaranteed values

Winding: 37WGZ659-R001			Type: 3742M		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: High Speed Connection					
Rated Output (HP)		10/2.5	Full Load Torque		30.05 LB-FT			
Volts		230	Start Configuration		direct on line			
Full Load Amps		24.4/9.2	Breakdown Torque		100 LB-FT			
R.P.M.		1730/860	Pull-up Torque		64.45 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		65.5 LB-FT		
NEMA Design Code		B	KVA Code	H	Starting Current		163 A	
Service Factor (S.F.)		1	No-load Current		9.94 A			
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		0.411 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C	
					Locked-rotor Power Factor		51.9	
					Rotor inertia		1.03 lb-ft²	

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	51	73	83	88	90	89
Efficiency	81.2	86.7	87.5	86.7	85.5	83.5
Speed	1782	1767	1750	1730	1710	1687
Line amperes	11.47	14.88	19.35	24.41	29.92	36.66

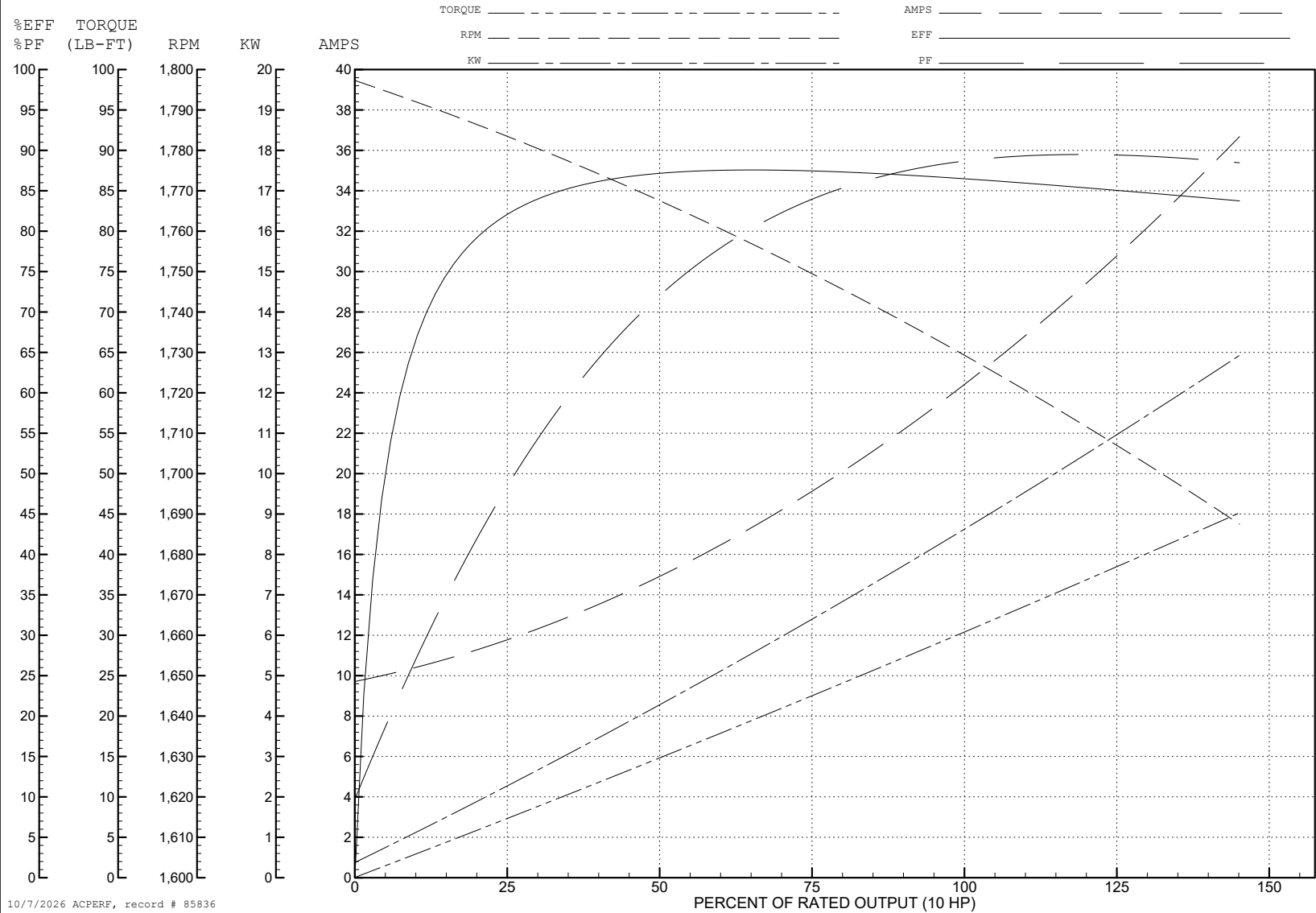
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WINDING # 37WGZ659

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1730 RPM 230 V 3742M

TORQUES (LB-FT): PO=100 PU=64.45 LR=65.5 LRA=163



AC Induction Motor Performance Data

Record # 85839

Typical performance - not guaranteed values

Winding: 37WGZ659-R001			Type: 3742M		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: Low Speed Connection		
Rated Output (HP)		10/2.5		Full Load Torque		15.29 LB-FT
Volts		230		Start Configuration		direct on line
Full Load Amps		24.4/9.2		Breakdown Torque		44.24 LB-FT
R.P.M.		1730/860		Pull-up Torque		26.04 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		28.52 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		37.85 A
Service Factor (S.F.)		1		No-load Current		3.58 A
NEMA Nom. Eff.		0	Power Factor	Line-line Res. @ 25°C		1.64 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C
				Locked-rotor Power Factor		46.3
				Rotor inertia		1.03 lb-ft²

Load Characteristics 230 V, 60 Hz, 2.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	27	43	55	64	69	73
Efficiency	64.2	75.6	79	79.7	78.9	77.2
Speed	889	880	869	858	845	830
Line amperes	6.88	7.44	8.19	9.15	10.53	12.14

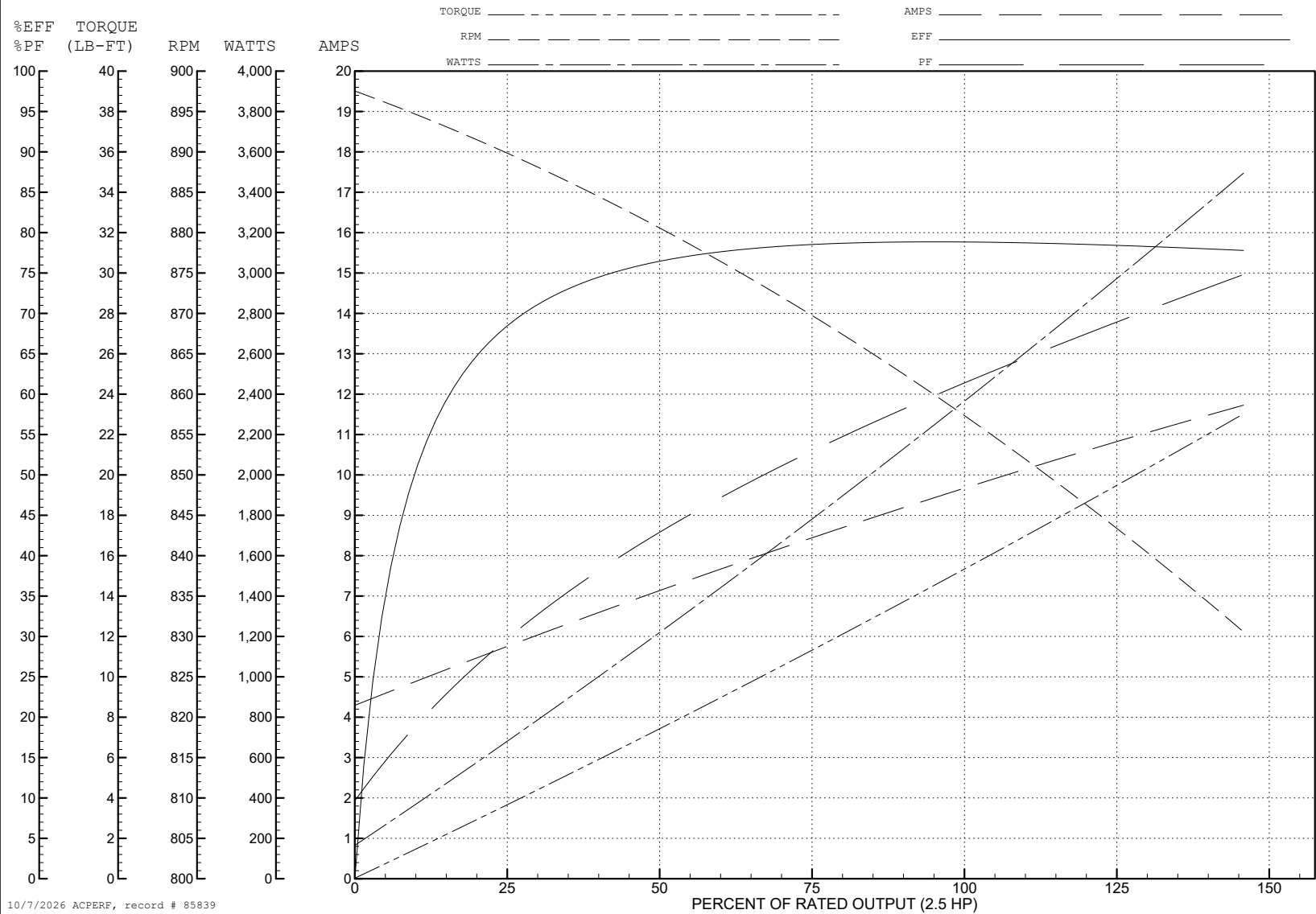
ABB Motors and Mechanical Inc.

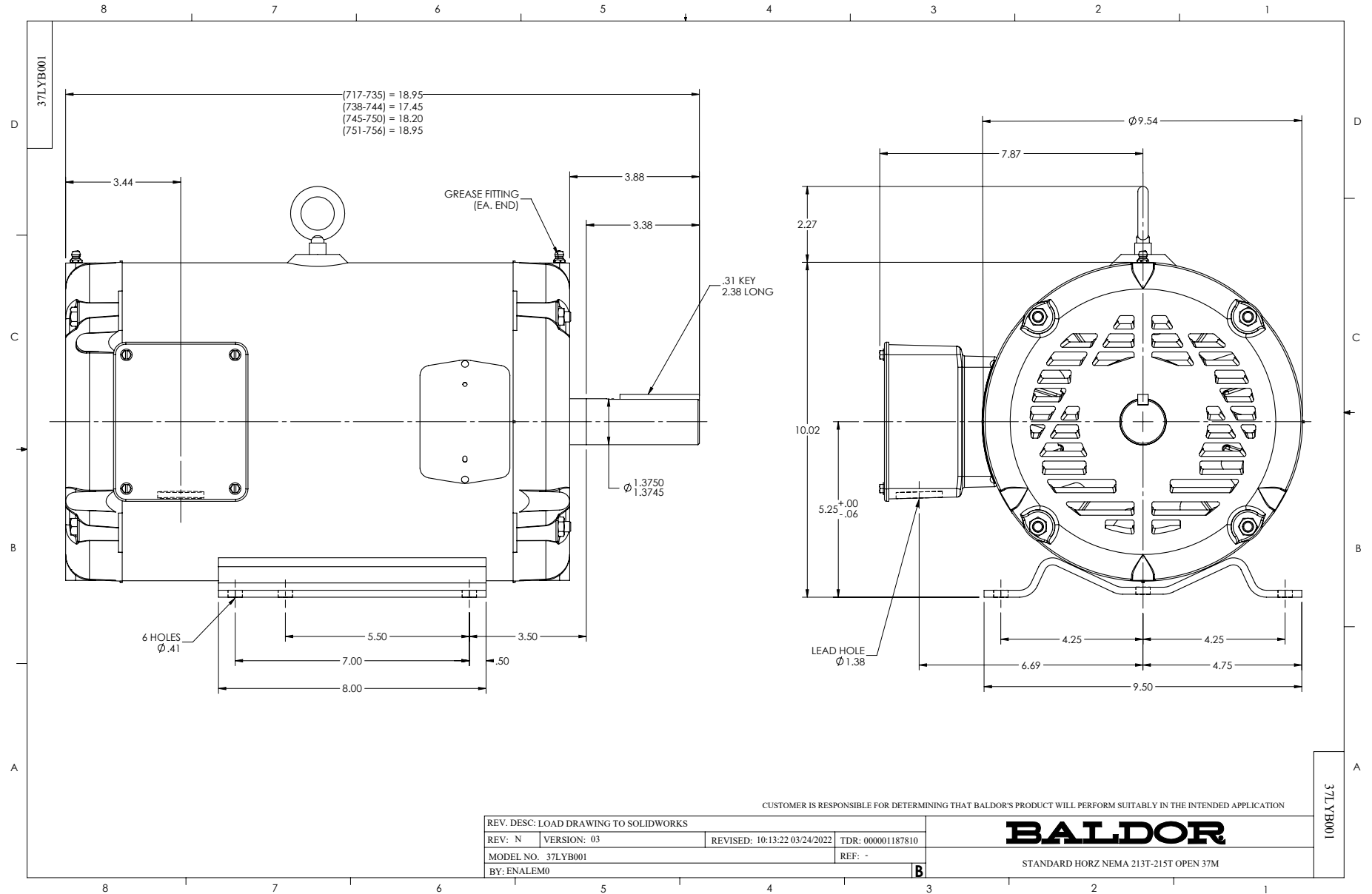
WINDING # 37WGZ659

Typical performance - not guaranteed values.

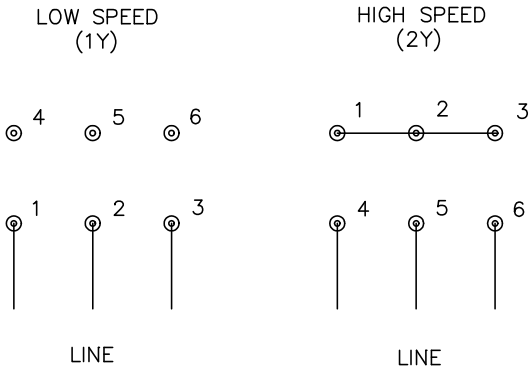
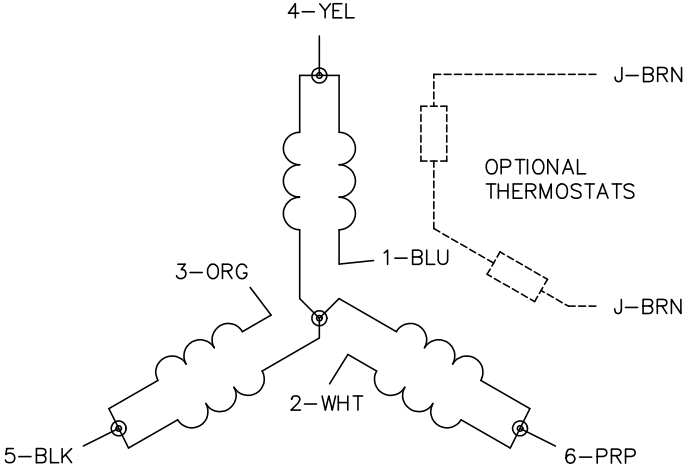
2.5 HP 3 PH 60 HZ 858 RPM 230 V 3742M

TORQUES (LB-FT) : PO=44.24 PU=26.04 LR=28.52 LRA=37.85





CD0032



- 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: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

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

CD0032