

ABB BALDOR RELIANCE III

Customer information packet

CTM1761T

15/3.75HP, 1760/885RPM, 3PH, 60HZ, 254T, 0940

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.750 HP @ 60 HZ 15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	18.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	7.8 a
Insulation Class	F

Part Detail

Revision	Y
Type	AC
Mech. spec.	09J957
Base	
Status	PRD/A
Elec. spec.	09WGX165
Layout	09LYJ957
Eff. date	09-16-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#12
Proprietary	False
Created date	11-30-2011

Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0940M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	24.78 IN
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm 885 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

NP1258											
CAT.NO.	CTM1761T										
SPEC.	09J957X165G1										
HP	15/3.75										
VOLTS	460										
AMP	18.1/7.8										
RPM	1760/885										
FRAME	254T		HZ	60			PH		3		
SER.F.	1.15		CODE	H	DES	A		CL		F	
NEMA-NOM-EFF			PF								
RATING	40C AMB-CONT										
CC											
DE	6309		ODE	6309							
ENCL	TEFC		SN								

NP0090	
FRONT	6309
PULLEY	6309
LUBRICATE WITH	
GREASE	POLYREX EM

AC Induction Motor Performance Data

Record # 50000

Typical performance - not guaranteed values

Winding: 09WGX165-R007			Type: 0940M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Speed Connection		
Rated Output (HP)		15/3.75		Full Load Torque		44.4 LB-FT
Volts		460		Start Configuration		direct on line
Full Load Amps		18.1/7.8		Breakdown Torque		108 LB-FT
R.P.M.		1760/885		Pull-up Torque		75 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		109 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		119 A
Service Factor (S.F.)		1.15		No-load Current		8.1 A
NEMA Nom. Eff.		0	Power Factor	Line-line Res. @ 25°C		0.773 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps				Temp. Rise @ S.F. Load		74°C
				Locked-rotor Power Factor		43.6

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	70	80	85	87	88	86
Efficiency	83.4	89.2	90.6	90.9	90.6	90	90.7
Speed	1793	1787	1780	1773	1766	1758	1769
Line amperes	9.1	11.4	14.6	18.1	22.1	26.3	20.5

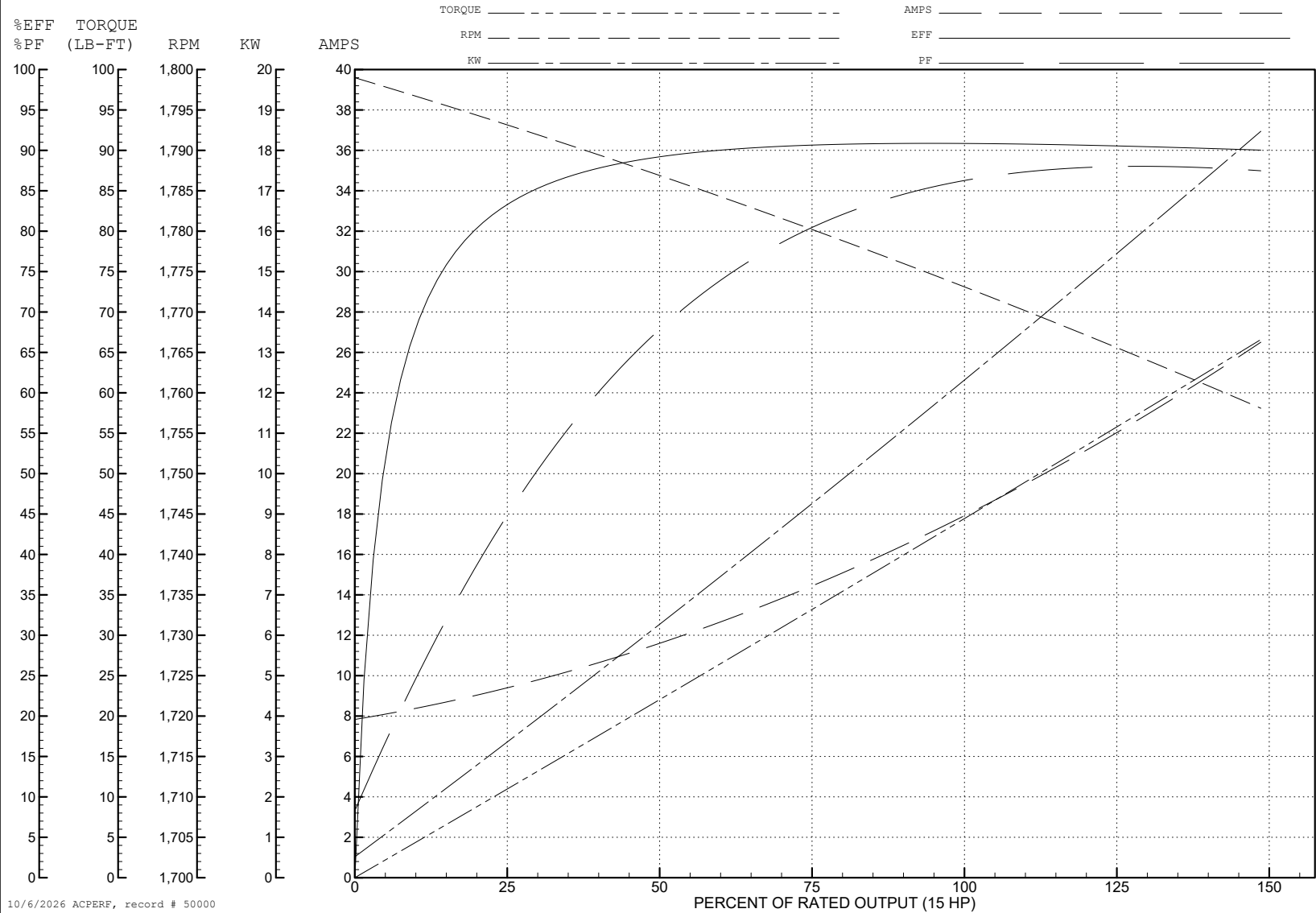
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WINDING # 09WGX165

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1773 RPM 460 V 0940M

TORQUES (LB-FT): PO=108 PU=75 LR=109 LRA=119



AC Induction Motor Performance Data

Record # 50001

Typical performance - not guaranteed values

Winding: 09WGX165-R007			Type: 0940M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		15/3.75	Full Load Torque		22 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		18.1/7.8	Breakdown Torque		50 LB-FT	
R.P.M.		1760/885	Pull-up Torque		26 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		42 LB-FT	
NEMA Design Code		A	KVA Code		H	
Starting Current		32.5 A	No-load Current		6.3 A	
Service Factor (S.F.)		1.15	Line-line Res. @ 25°C		3.18 Ω	
NEMA Nom. Eff.		0	Power Factor		0	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		47°C	
S.F. Amps			Temp. Rise @ S.F. Load		52°C	
			Locked-rotor Power Factor		42.1	

Load Characteristics 460 V, 60 Hz, 3.7 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	21	34	45	53	61	65	58
Efficiency	66.8	78.6	82.9	84.7	85.3	85.3	85.1
Speed	896	893	889	886	882	878	884
Line amperes	6.4	6.6	7	7.8	8.4	9.3	8.16

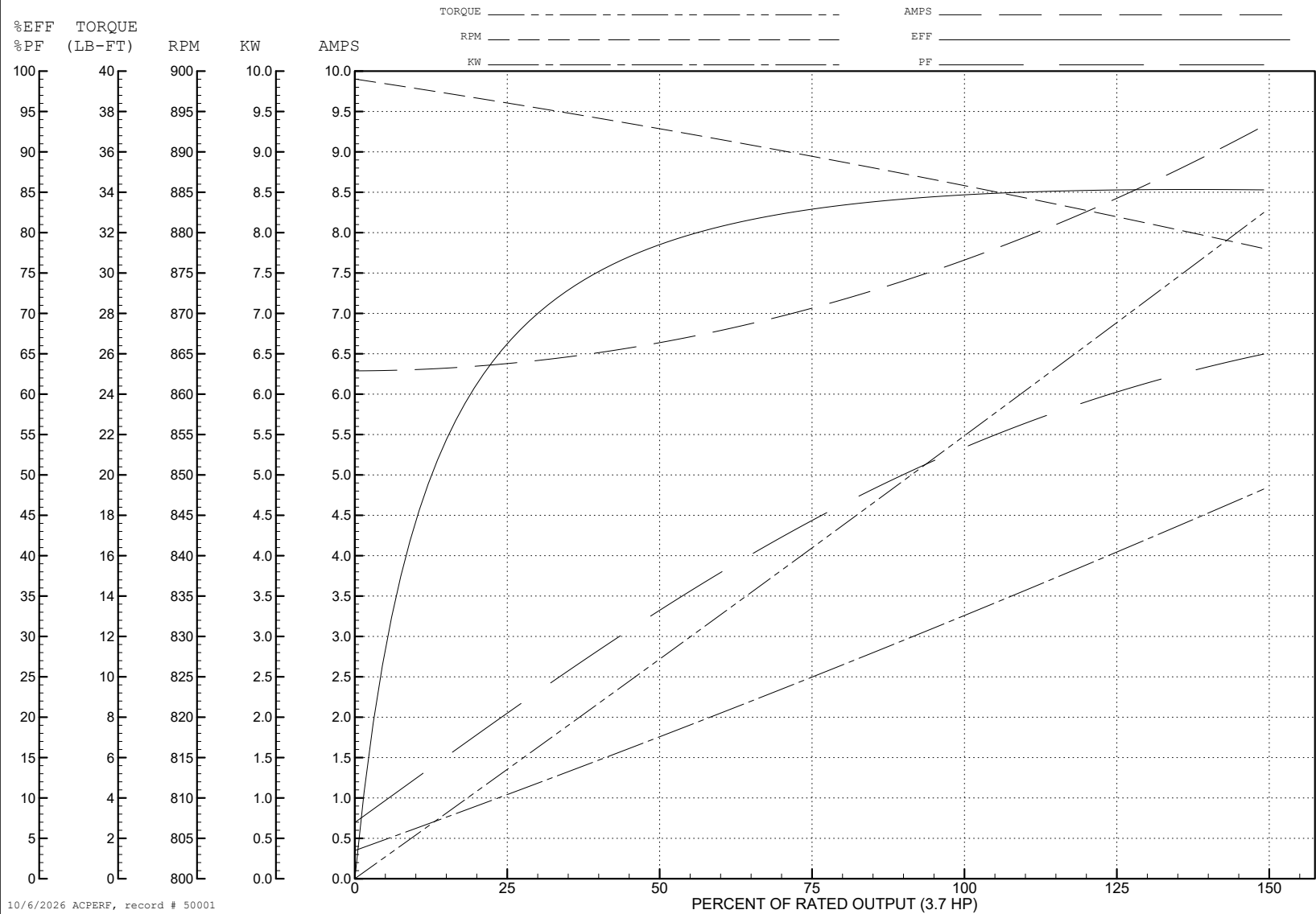
ABB Motors and Mechanical Inc.

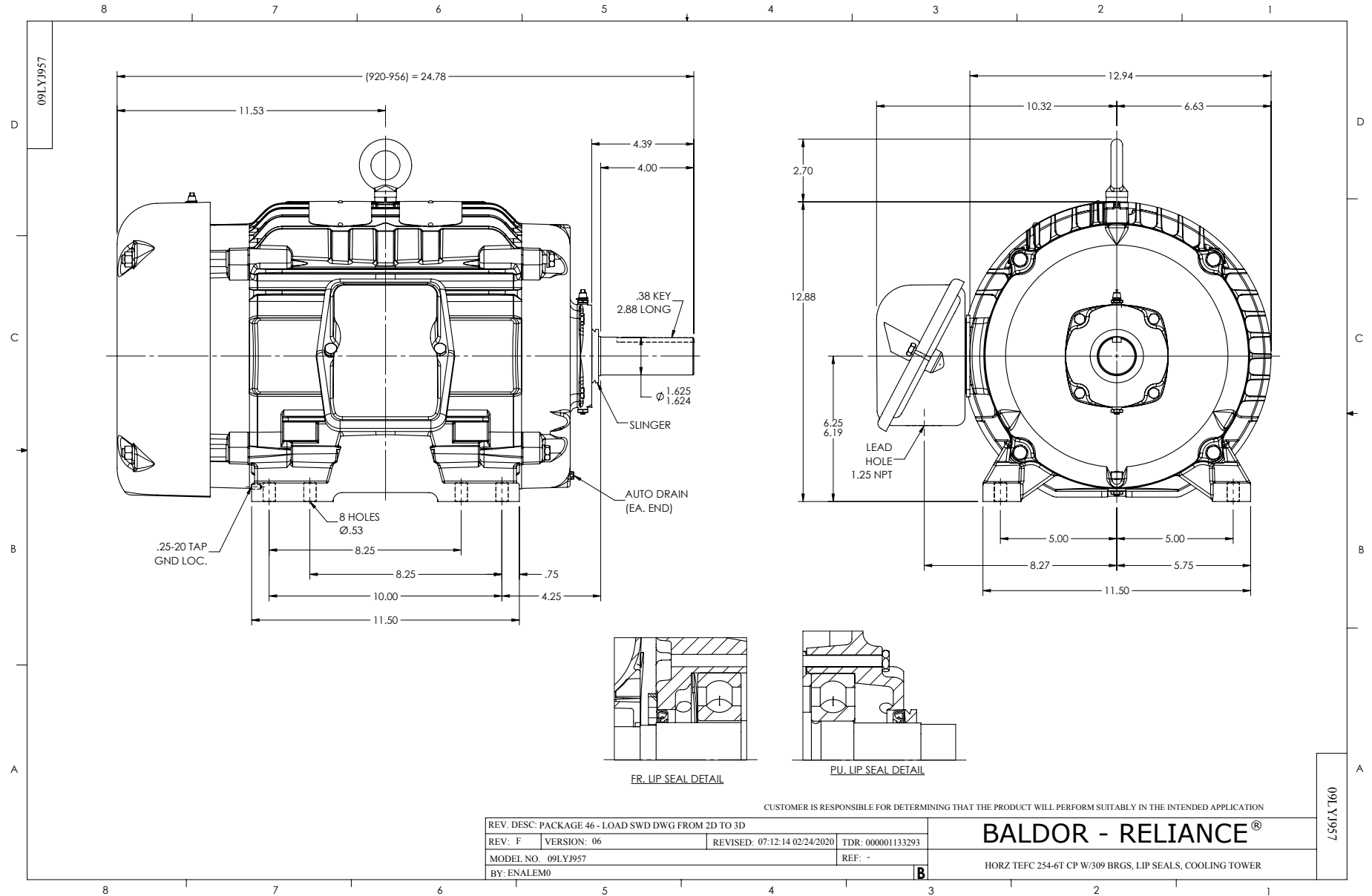
WINDING # 09WGX165

Typical performance - not guaranteed values.

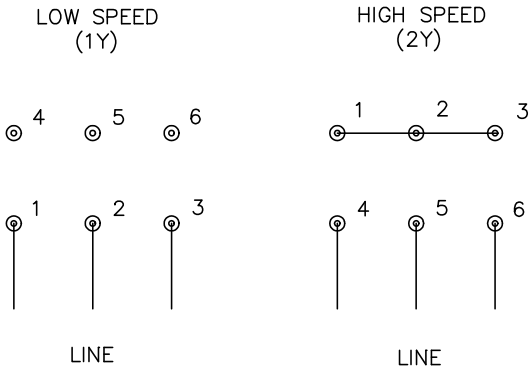
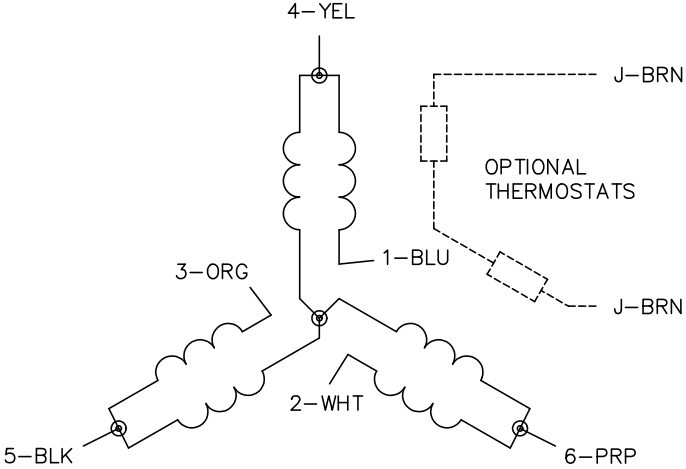
3.7 HP 3 PH 60 HZ 886 RPM 460 V 0940M

TORQUES (LB-FT) : PO=50 PU=26 LR=42 LRA=32.5





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