ABB BALDOR RELIANCE

Customer information packet

CTM1761T

15/3.75HP, 1760/885RPM, 3PH, 60HZ, 254T, 0940
Class - None
Division - Not Applicable

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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

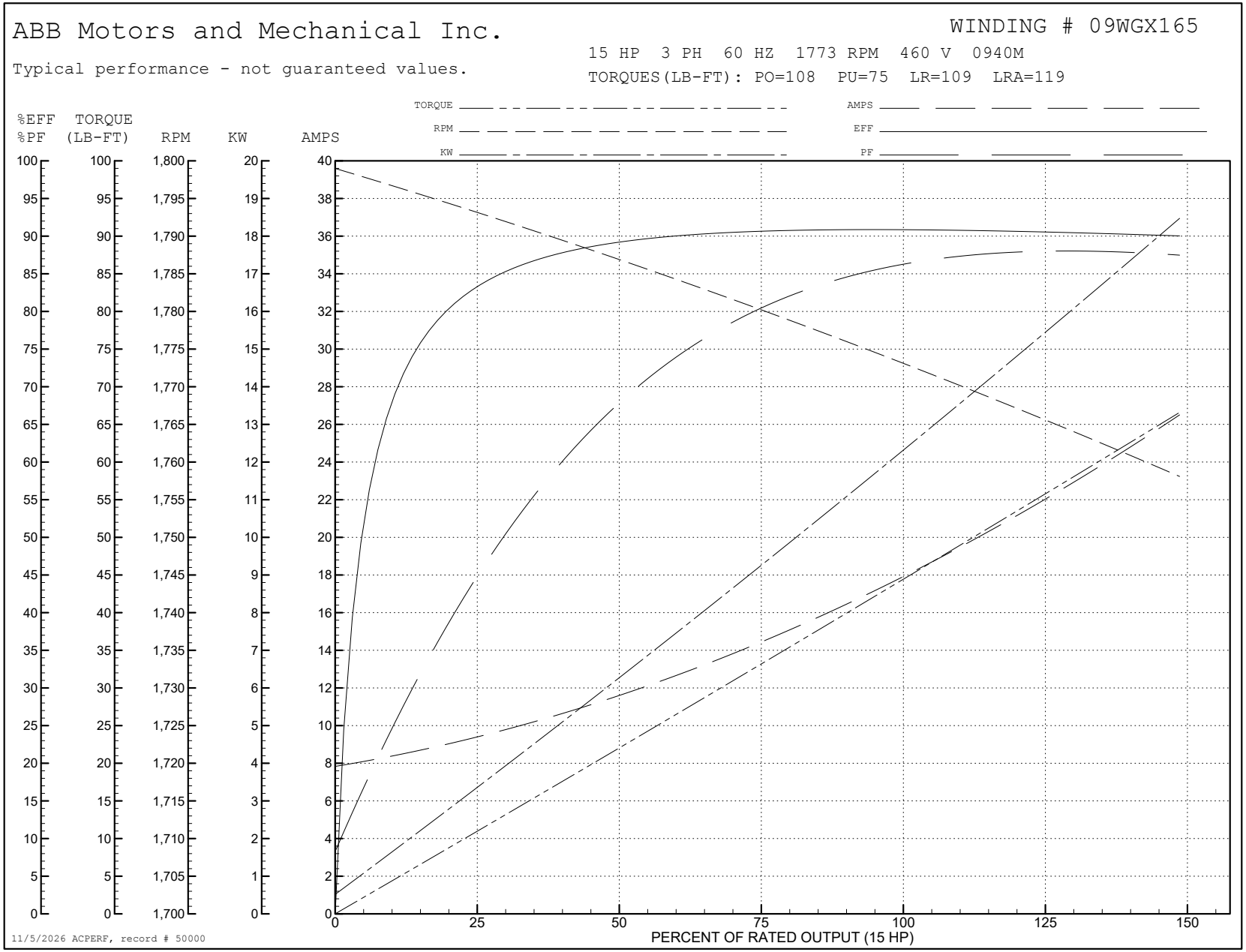
Winding: 09WGX165-R007	**Type:** 0940M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			15/3.75
Volts			460
Full Load Amps			18.1/7.8
R.P.M.			1760/885
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Speed Connection	
Full Load Torque	44.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	108 LB-FT
Pull-up Torque	75 LB-FT
Locked-rotor Torque	109 LB-FT
Starting Current	119 A
No-load Current	8.1 A
Line-line Res. @ 25ºC	0.773 Ω
Temp. Rise @ Rated Load	63°C
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


ABB Motors and Mechanical Inc.
WINDING # 09WGX165
15 HP 3 PH 60 HZ 1773 RPM 460 V 0940M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=108 PU=75 LR=109 LRA=119
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/5/2026 ACPERF, record # 50000

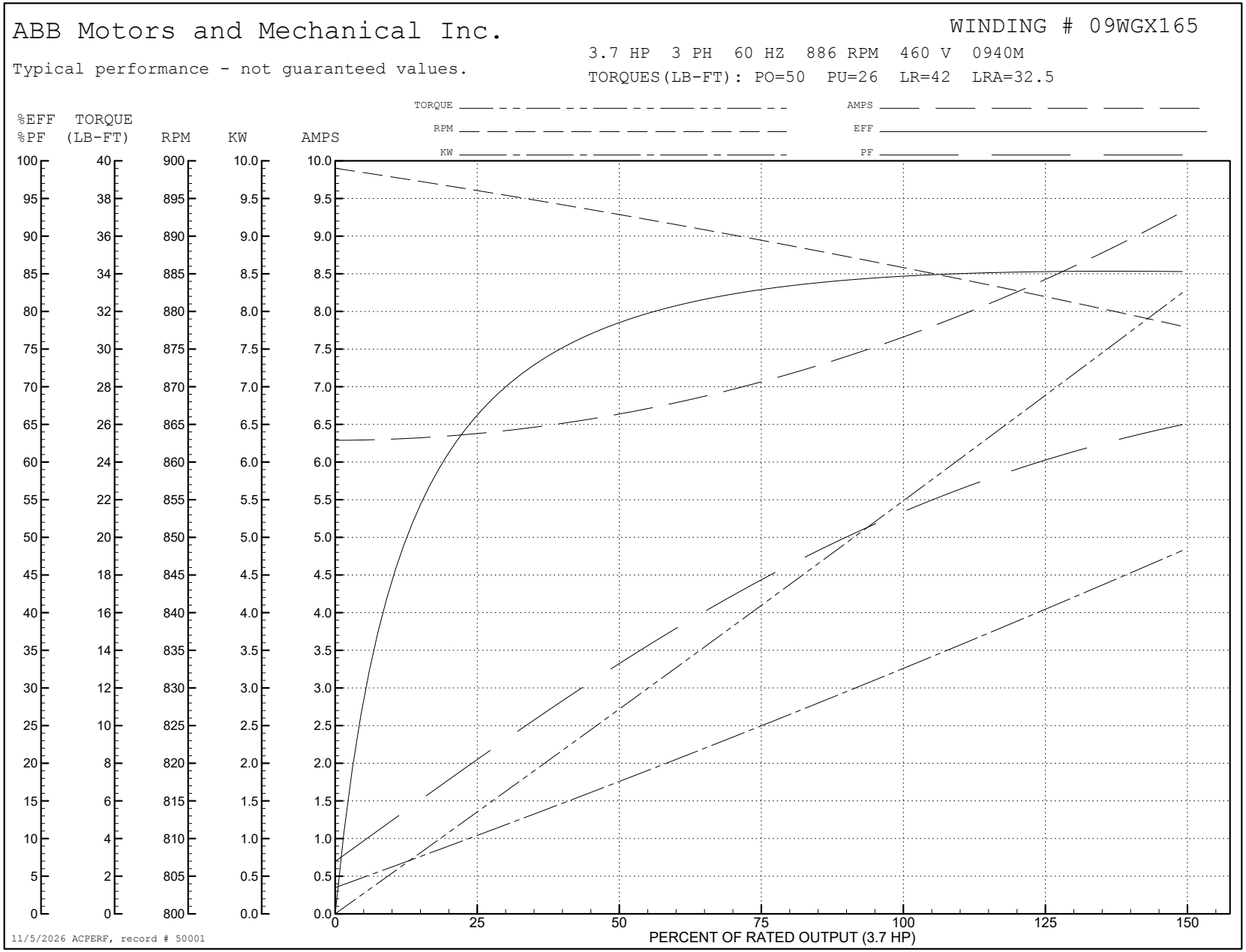
AC Induction Motor Performance Data
Record # 50001
Typical performance - not guaranteed values

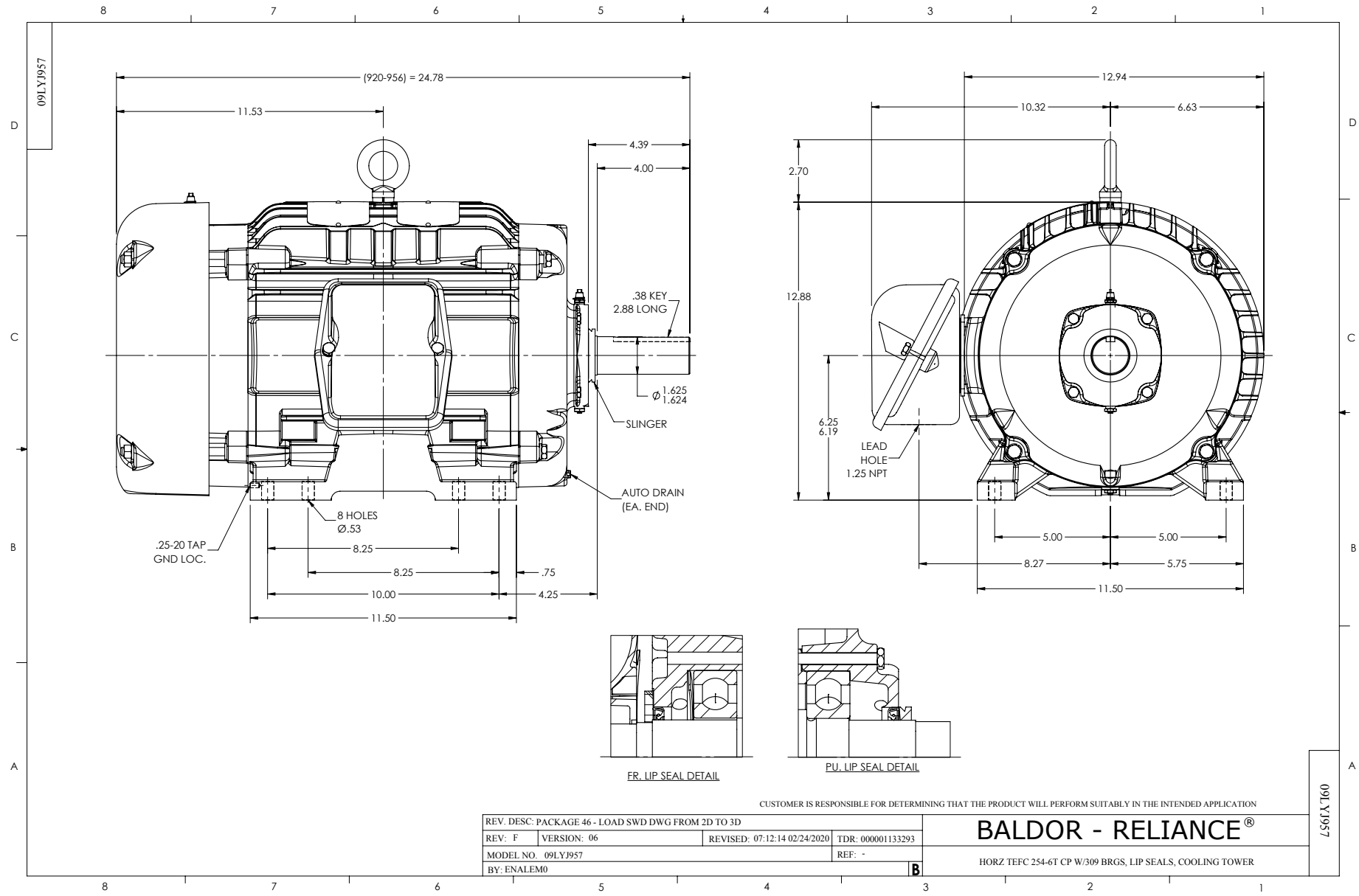
Winding: 09WGX165-R007	**Type:** 0940M	**Enclosure:** TEFC

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
Service Factor (S.F.)			1.15	**No-load Current**	6.3 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	3.18 Ω
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

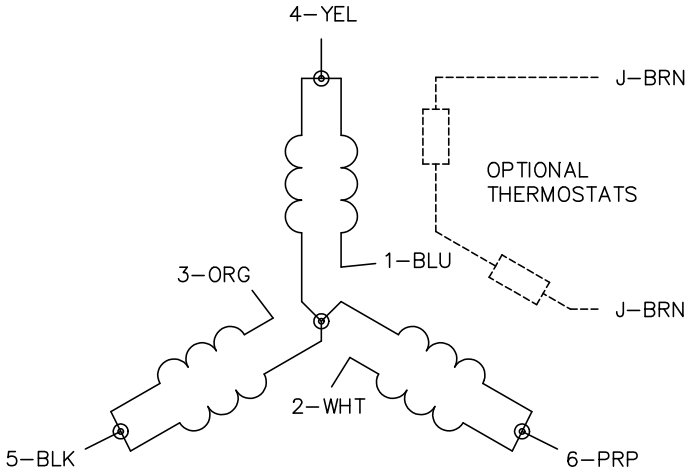
Load Characteristics 460 V, 60 Hz, 3.7 HP

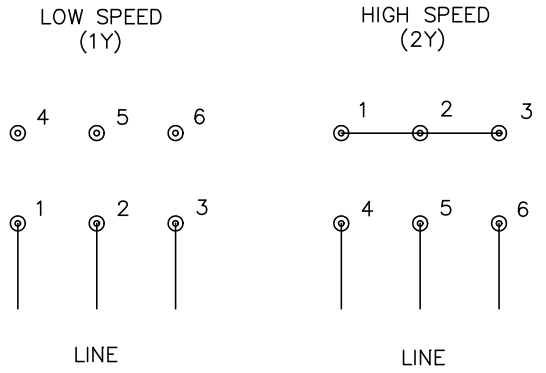
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	21	34	45	53	61	65	58
Efficiency	66.8	78.6	82.9	84.7	85.3	85.3	85.1
Speed	896	893	889	886	882	878	884
Line amperes	6.4	6.6	7	7.8	8.4	9.3	8.16


ABB Motors and Mechanical Inc.
WINDING # 09WGX165
3.7 HP 3 PH 60 HZ 886 RPM 460 V 0940M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=50 PU=26 LR=42 LRA=32.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3.7 HP)
11/5/2026 ACPERF, record # 50001


09LYJ957
(920-956) = 24.78
11.53
4.39
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø.53
.25-20 TAP
GND LOC.
8.25
8.25
.75
10.00
4.25
11.50
12.94
10.32
6.63
2.70
12.88
6.25
6.19
LEAD
HOLE
1.25 NPT
5.00
5.00
8.27
5.75
11.50
FR. LIP SEAL DETAIL
PU. LIP SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: PACKAGE 46 - LOAD SWD DWG FROM 2D TO 3D
REV: F
VERSION: 06
REVISED: 07:12:14 02/24/2020
TDR: 000001133293
MODEL NO. 09LYJ957
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6T CP W/309 BRGS, LIP SEALS, COOLING TOWER
09LYJ957

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.

CD0032

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE