ABB BALDOR RELIANCE

Customer information packet

CTM1762T

20HP, 1770RPM, 3PH, 60HZ, 256T, TEFC, FOOT,
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256T
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	5.000 HP @ 60 HZ
	20.000 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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.600 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	9.3 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	U
Type	AC
Mech. spec.	09J957
Base	
Status	PRD/A
Elec. spec.	09WGX186
Layout	09LYJ957
Eff. date	09-16-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#12
Proprietary	False
Created date	08-15-2014

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	0944M
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
	875 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.	CTM1762T								
SPEC.	09J957X186G1								
HP	20/5								
VOLTS	460								
AMP	23.6/9.3								
RPM	1760/875								
FRAME	256T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B	**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 # 43648
Typical performance - not guaranteed values

Winding: 09WGX186-R002	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			20/5
Volts			460
Full Load Amps			23.6/9.3
R.P.M.			1760/875
Hz	60	**Phase**	3
NEMA Design Code	B	**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	60 LB-FT
Start Configuration	direct on line
Breakdown Torque	183 LB-FT
Pull-up Torque	69 LB-FT
Locked-rotor Torque	101 LB-FT
Starting Current	160 A
No-load Current	9 A
Line-line Res. @ 25ºC	0.611 Ω
Temp. Rise @ Rated Load	78°C
Temp. Rise @ S.F. Load	95°C
Locked-rotor Power Factor	41.9

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	76	85	89	89	89	89
Efficiency	84.6	89.6	90.5	90	89	87.6	89.4
Speed	1790	1781	1773	1762	1750	1738	1755
Line amperes	10.5	14	18.5	23.6	29.5	35.6	27.1

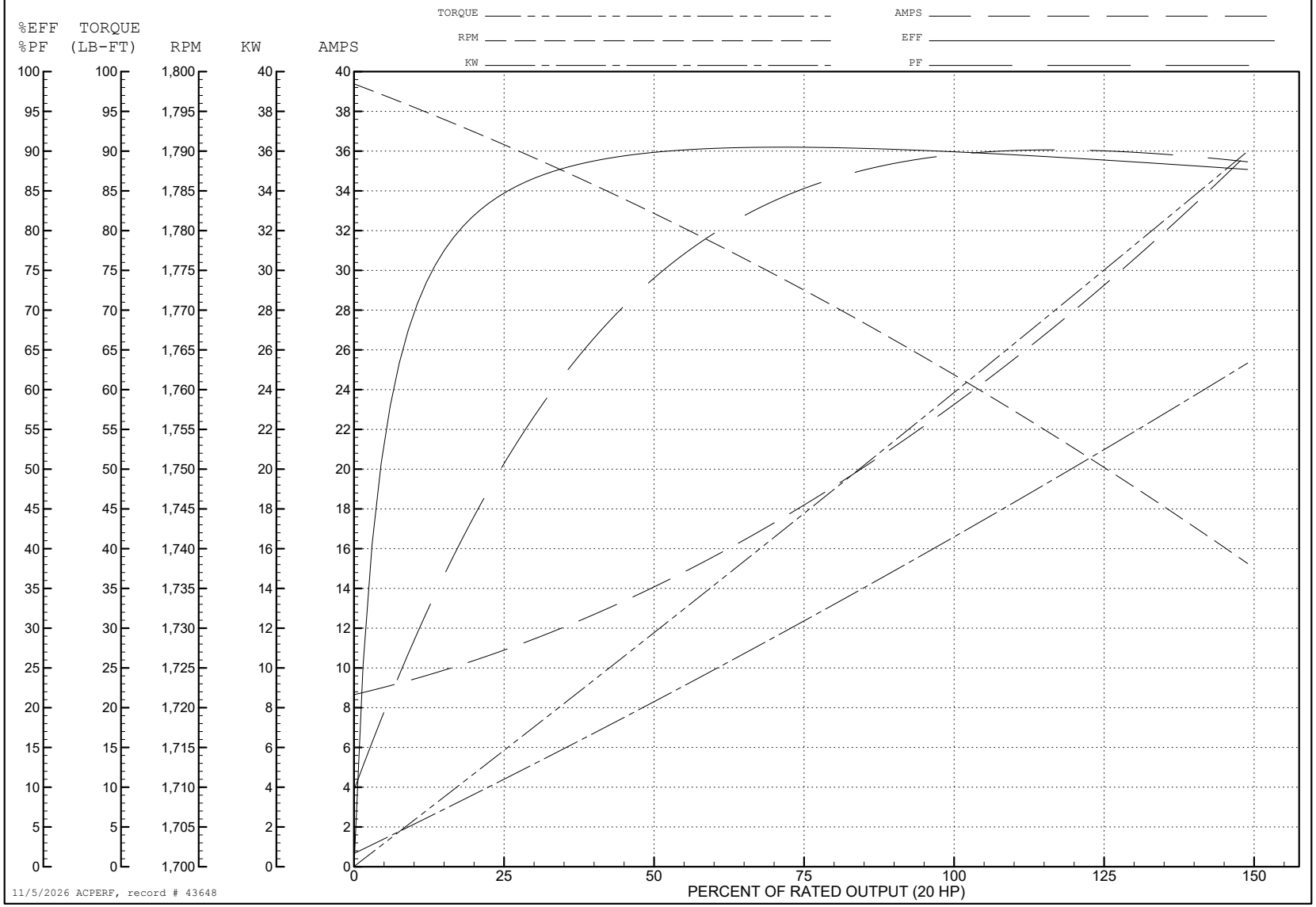
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WINDING # 09WGX186

20 HP 3 PH 60 HZ 1762 RPM 460 V 0944M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=183 PU=69 LR=101 LRA=160



AC Induction Motor Performance Data
Record # 43649
Typical performance - not guaranteed values

Winding: 09WGX186-R002	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			20/5
Volts			460
Full Load Amps			23.6/9.3
R.P.M.			1760/875
Hz	60	**Phase**	3
NEMA Design Code	B	**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: Low Speed Connection	
Full Load Torque	30 LB-FT
Start Configuration	direct on line
Breakdown Torque	70 LB-FT
Pull-up Torque	30 LB-FT
Locked-rotor Torque	40 LB-FT
Starting Current	45 A
No-load Current	6.6 A
Line-line Res. @ 25ºC	2.51 Ω
Temp. Rise @ Rated Load	48°C
Temp. Rise @ S.F. Load	55°C
Locked-rotor Power Factor	40.2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	25	40	52	60	65	68	63
Efficiency	71.8	81.4	84.5	85.1	84.9	83.8	85
Speed	895	891	887	881	876	869	878
Line amperes	6.7	7.3	8.1	9.3	10.6	12.2	10.1

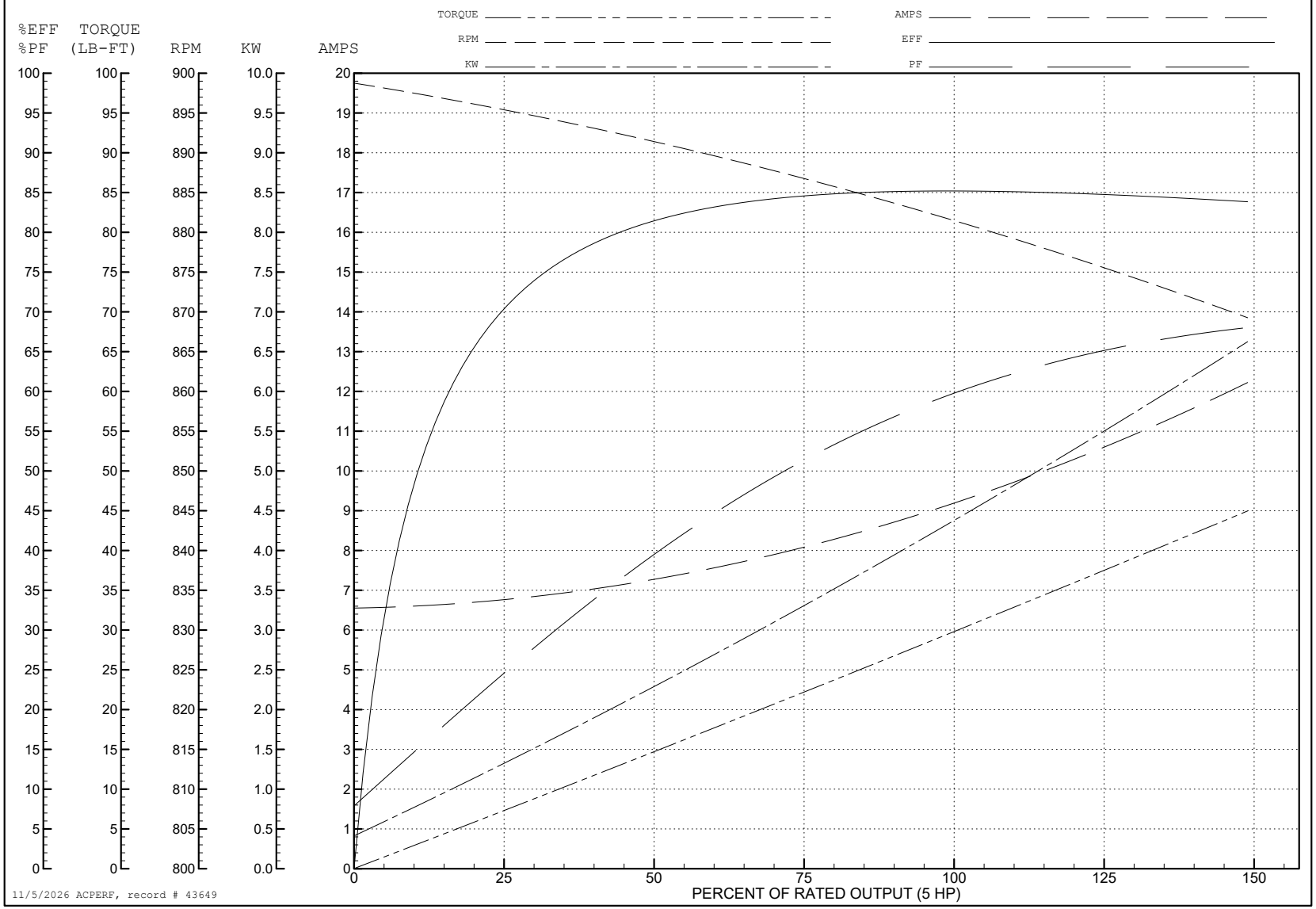
ABB Motors and Mechanical Inc.

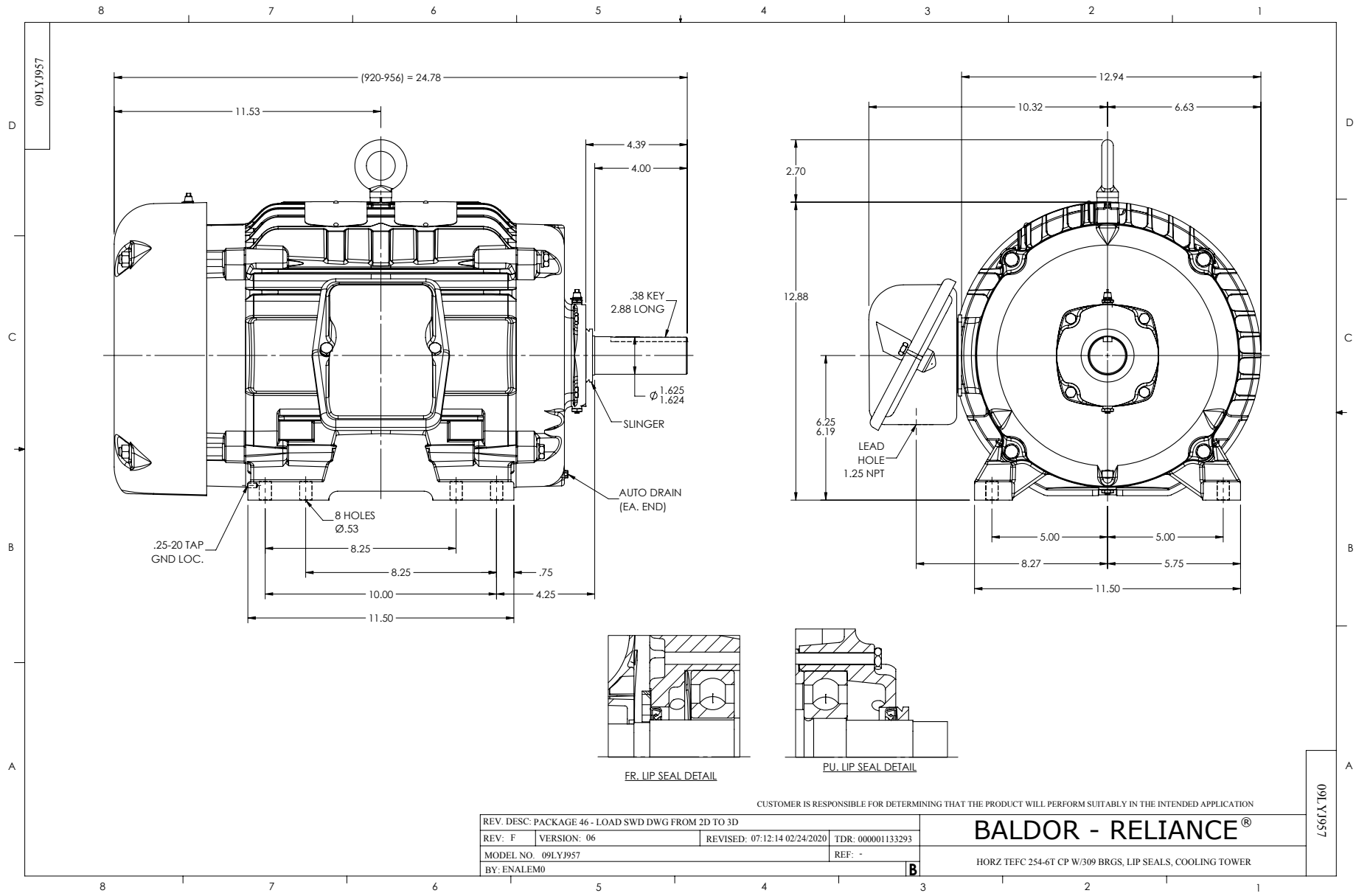
WINDING # 09WGX186

5 HP 3 PH 60 HZ 881 RPM 460 V 0944M

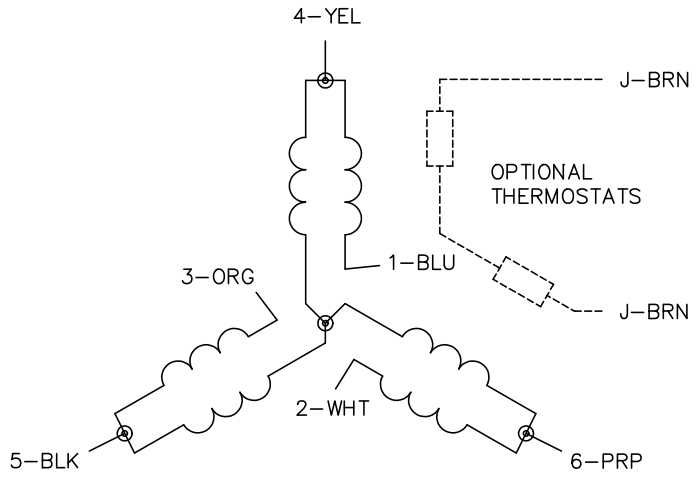
Typical performance - not guaranteed values.

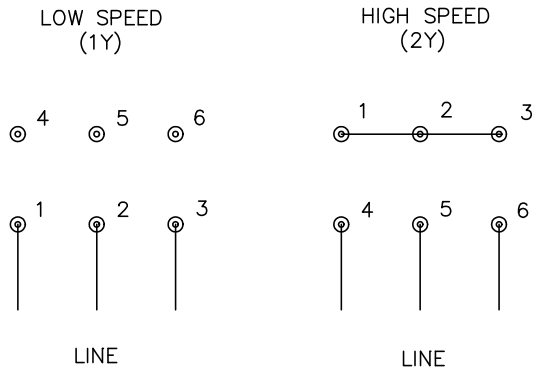
TORQUES(LB-FT): PO=70 PU=30 LR=40 LRA=45




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