ABB BALDOR RELIANCE

Customer information packet

CTM1760T

10/2.5HP, 1760/875RPM, 3PH, 60HZ, 0748M, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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	2.500 HP @ 60 HZ
	10.000 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	12.800 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	B
Type	AC
Mech. spec.	07N044
Base	
Status	PRD/A
Elec. spec.	07WGZ112
Layout	07LYN044
Eff. date	07-08-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#14
Proprietary	False
Created date	12-14-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	19.32 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	1.375 IN
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

NP2134									
CAT.NO.	CTM1760T								
SPEC.	07N044Z112G1								
HP	10/2.5								
VOLTS	460								
AMP	12.8/4.8								
RPM	1760/875								
FRAME	213T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F		
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
	SFA 14.7/5.4								

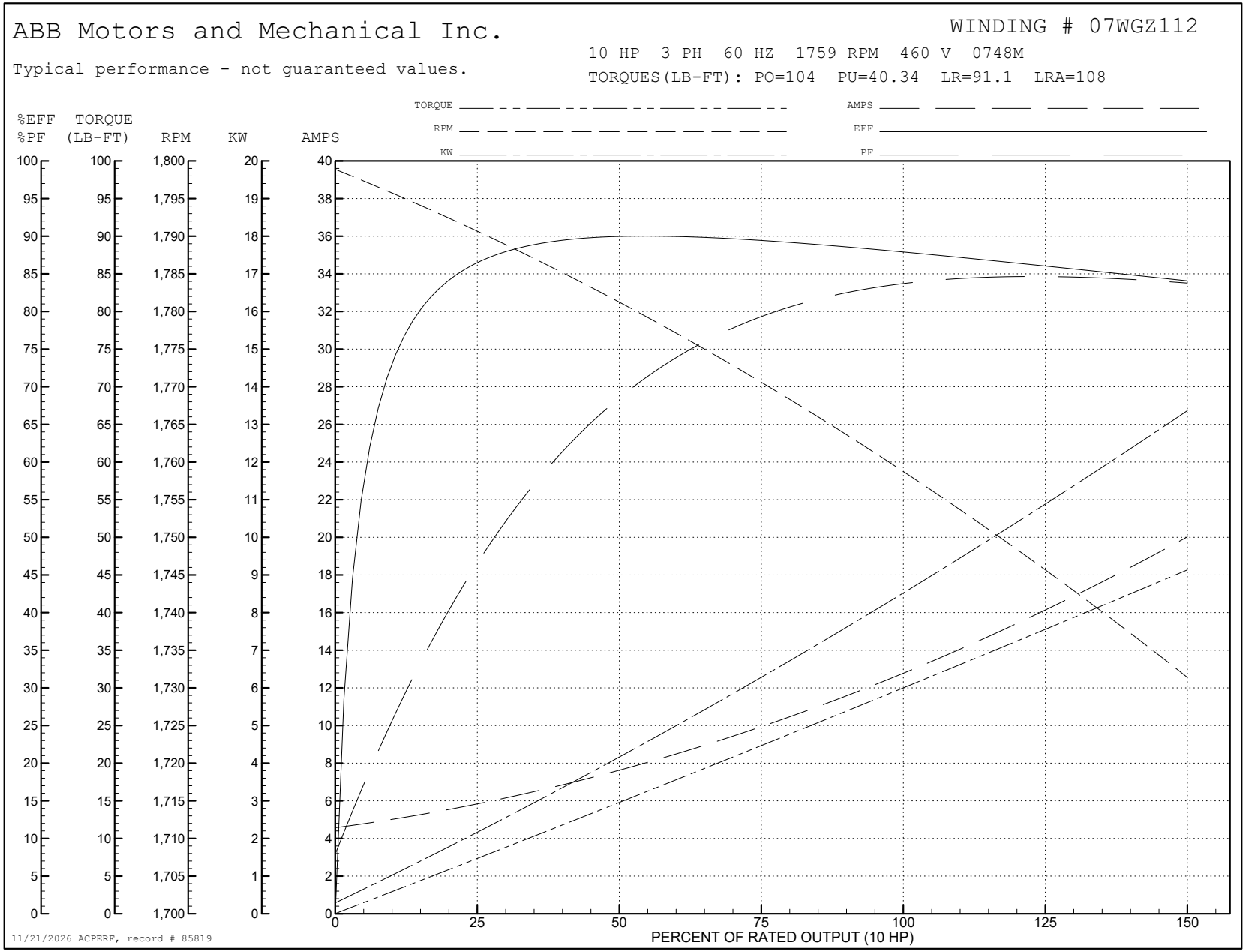
AC Induction Motor Performance Data
Record # 85819
Preliminary Data Sheet

Winding: 07WGZ112-R001	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)		10/2.5	**Full Load Torque**	29.87 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		12.8/4.8	**Breakdown Torque**	104 LB-FT
R.P.M.		1760/875	**Pull-up Torque**	40.34 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	91.1 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	108 A
Service Factor (S.F.)		1.15	**No-load Current**	4.74 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	1.17 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	85°C
S.F. Amps		14.7/5.4	**Temp. Rise @ S.F. Load**	104°C
			Locked-rotor Power Factor	46
			Rotor inertia	1.19 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	78	83	84	84	84
Efficiency	85.4	89.4	89.4	88.1	86.3	83.9	87
Speed	1791	1781	1771	1759	1747	1731	1752
Line amperes	5.56	7.51	9.89	12.83	16.03	19.93	14.8


ABB Motors and Mechanical Inc.
WINDING # 07WGZ112
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1759 RPM 460 V 0748M
TORQUES(LB-FT): PO=104 PU=40.34 LR=91.1 LRA=108
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/21/2026 ACPERF, record # 85819

AC Induction Motor Performance Data
Record # 85820
Preliminary Data Sheet

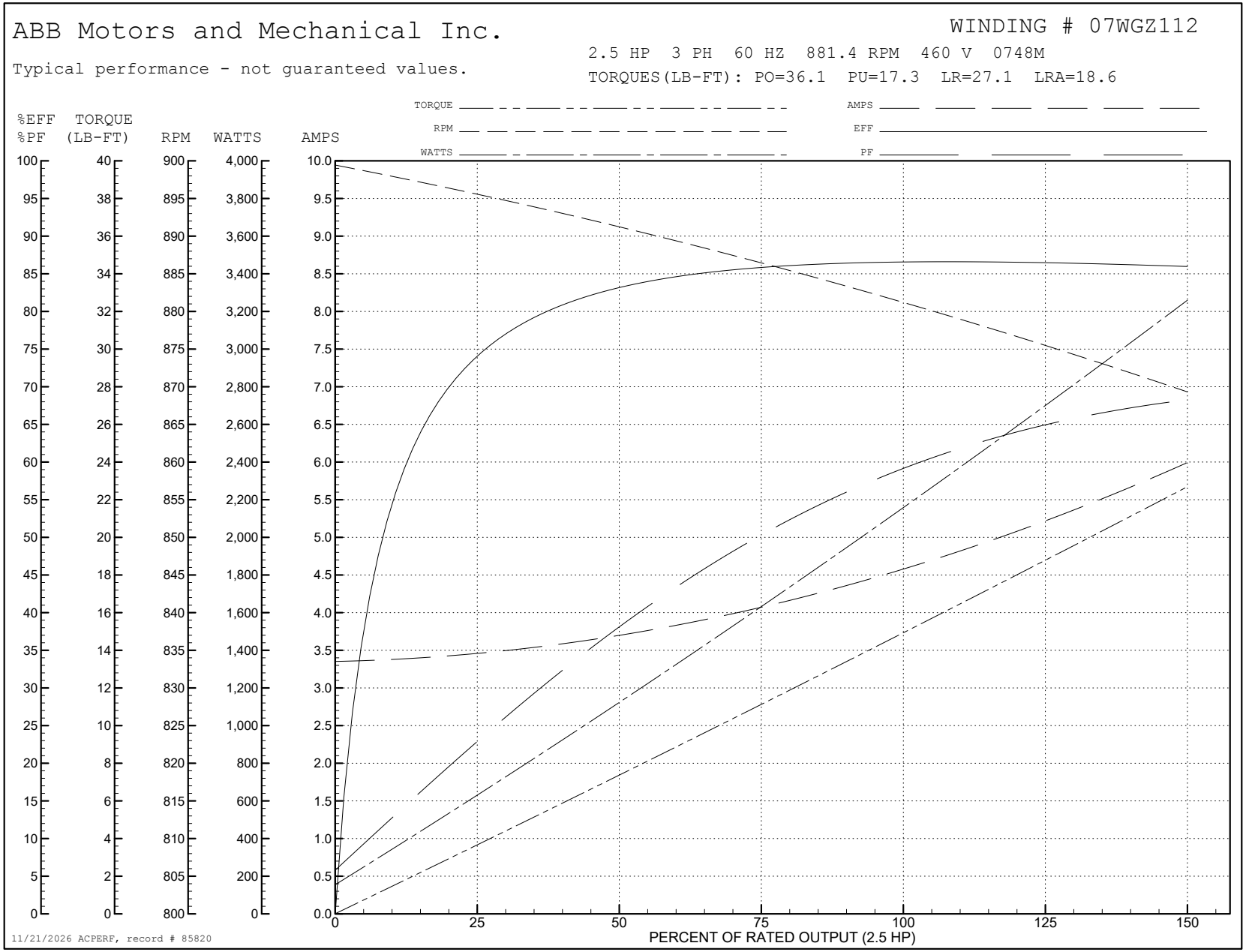
Winding: 07WGZ112-R001	**Type:** 0748M	**Enclosure:** TEFC

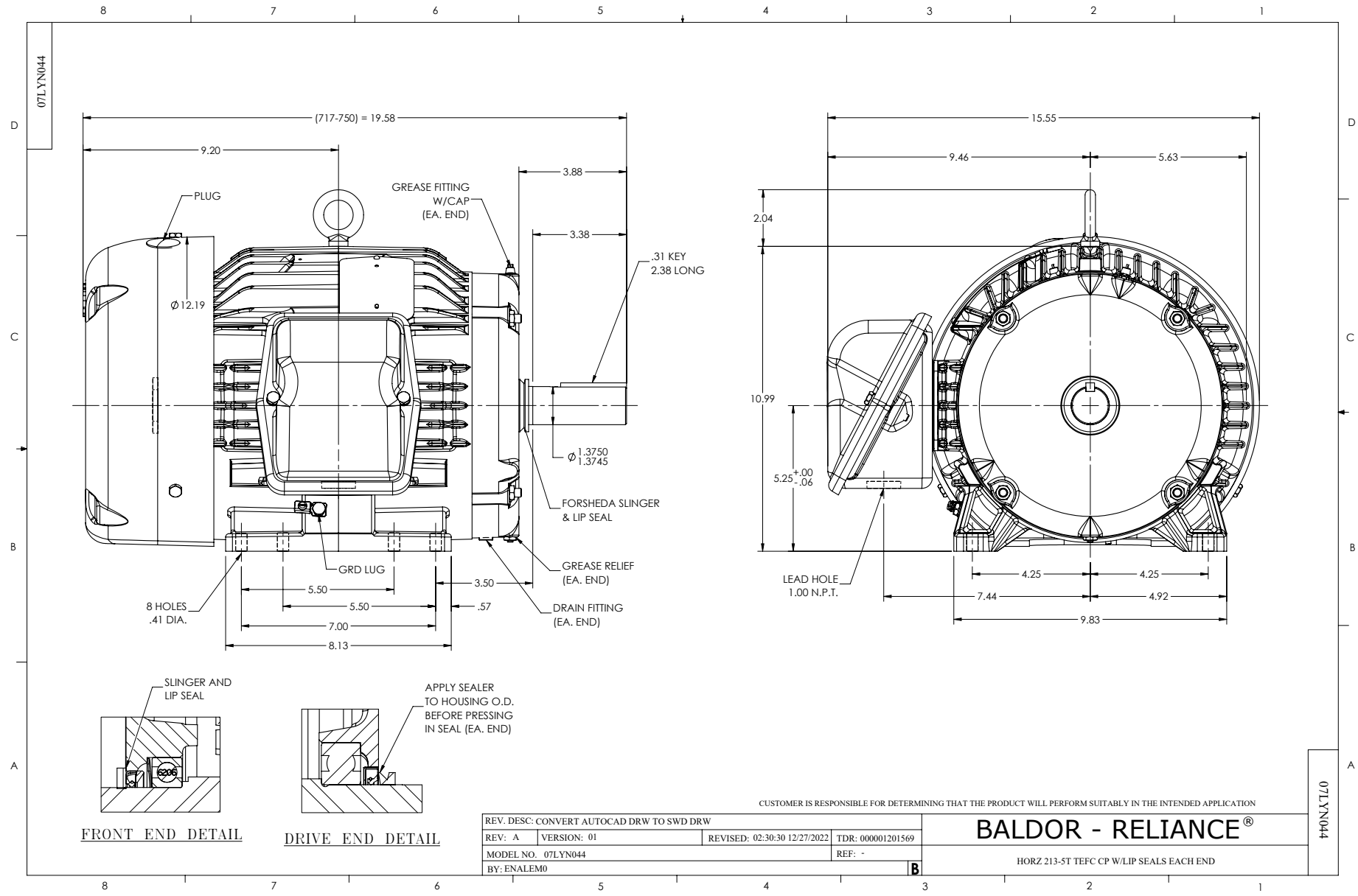
Nameplate Data			
Rated Output (HP)			10/2.5
Volts			460
Full Load Amps			12.8/4.8
R.P.M.			1760/875
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			14.7/5.4

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	14.9 LB-FT
Start Configuration	direct on line
Breakdown Torque	36.1 LB-FT
Pull-up Torque	17.3 LB-FT
Locked-rotor Torque	27.1 LB-FT
Starting Current	18.6 A
No-load Current	3.36 A
Line-line Res. @ 25ºC	4.68 Ω
Temp. Rise @ Rated Load	43°C
Temp. Rise @ S.F. Load	51°C
Locked-rotor Power Factor	46
Rotor inertia	1.19 lb-ft²

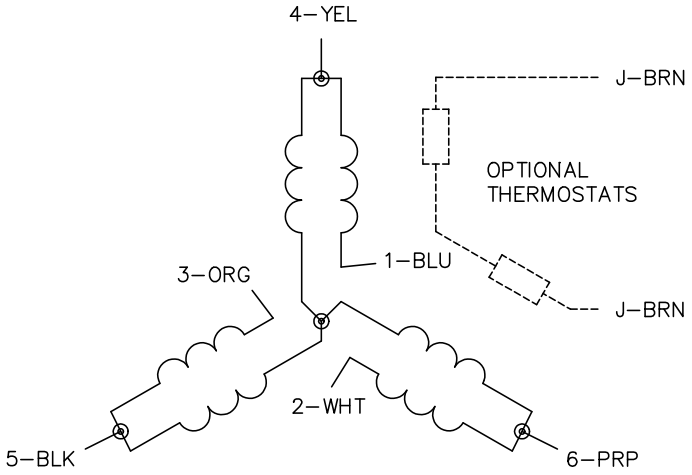
Load Characteristics 460 V, 60 Hz, 2.5 HP

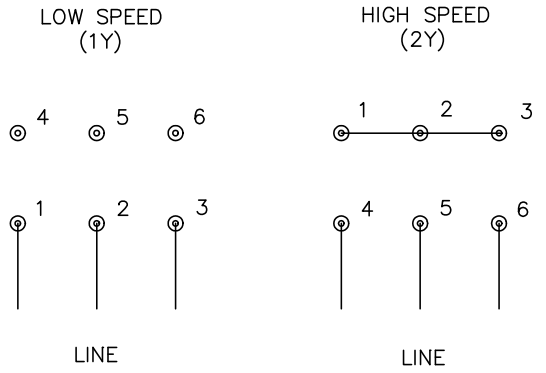
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	23	38	50	59	65	68	63
Efficiency	74	83.1	85.9	86.7	86.5	85.7	86.6
Speed	895.4	891.1	886.4	881.4	875.7	869.1	878
Line amperes	3.45	3.69	4.07	4.59	5.22	5.99	4.97


ABB Motors and Mechanical Inc.
WINDING # 07WGZ112
2.5 HP 3 PH 60 HZ 881.4 RPM 460 V 0748M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=36.1 PU=17.3 LR=27.1 LRA=18.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2.5 HP)
11/21/2026 ACPERF, record # 85820


07LYN044
(717-750) = 19.58
9.20
PLUG
GREASE FITTING W/CAP (EA. END)
3.88
3.38
.31 KEY 2.38 LONG
Ø12.19
Ø1.3750 1.3745
FORSHEDA SLINGER & LIP SEAL
GREASE RELIEF (EA. END)
GRD LUG
5.50
5.50
7.00
8.13
3.50
.57
8 HOLES .41 DIA.
DRAIN FITTING (EA. END)
15.55
9.46
5.63
2.04
10.99
5.25 +.00 -.06
LEAD HOLE 1.00 N.P.T.
4.25
4.25
7.44
4.92
9.83
SLINGER AND LIP SEAL
APPLY SEALER TO HOUSING O.D. BEFORE PRESSING IN SEAL (EA. END)
6206
FRONT END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 02:30:30 12/27/2022
TDR: 000001201569
MODEL NO. 07LYN044
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T TEFC CP W/LIP SEALS EACH END
07LYN044

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