ABB BALDOR RELIANCE

Customer information packet

CEWDM3704T

3HP, 1160RPM, 3PH, 60HZ, 213TC, 3738M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	9.200 A @ 230.0 V
	9.600 A @ 208.0 V
	4.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	T
Type	AC
Mech. spec.	37G815
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYG815
Eff. date	08-31-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-21-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.78 IN
Power Factor	68
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 rpm
Speed Code	Single Speed
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

NP1669L								
CAT.NO.	CEWDM3704T							
SPEC.	37G815S519G1							
HP	3							
VOLTS	230/460							
AMP	9.2/4.6							
RPM	1160							
FRAME	213TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	89.5	**PF**	68					
RATING	40C AMB-CONT							
CC	010A							
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						
BLANK	20:1CT, 20:1VT							

AC Induction Motor Performance Data
Record # 53388
Typical performance - not guaranteed values

Winding: 37WGS519-R032	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	13.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			9.2/4.6	**Breakdown Torque**	50.4 LB-FT
R.P.M.			1160	**Pull-up Torque**	31.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	33.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	34 A
Service Factor (S.F.)			1.15	**No-load Current**	2.56 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.67 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

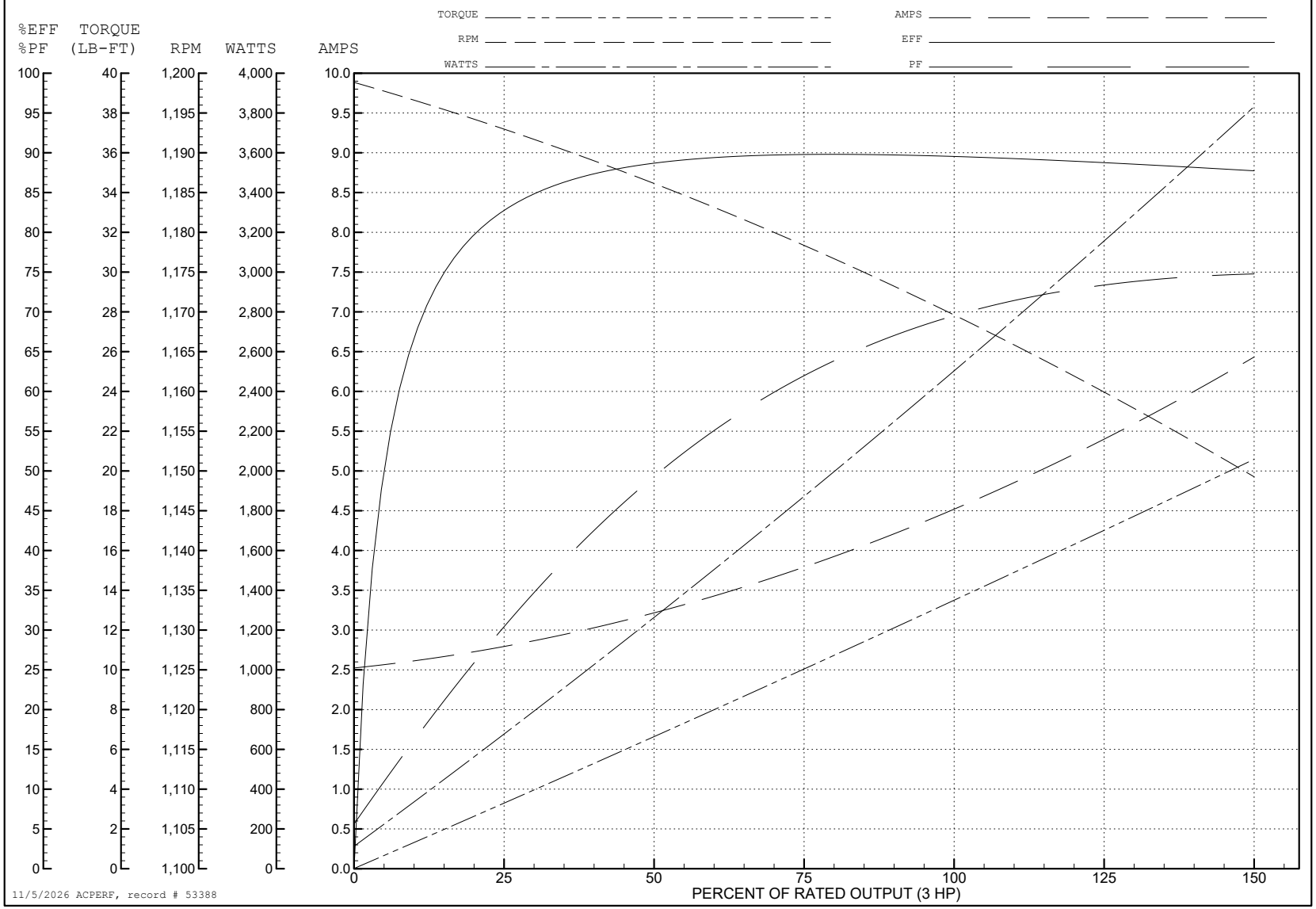
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WINDING # 37WGS519

3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34



AC Induction Motor Performance Data
Record # 60478
Typical performance - not guaranteed values

Winding: 37WGS519-R032	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	13.5 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			9.5-9.2/4.6	**Breakdown Torque**	41 LB-FT
R.P.M.			1160	**Pull-up Torque**	25.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.3 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	61 A
Service Factor (S.F.)			1.15	**No-load Current**	4.52 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	0.668 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
S.F. Amps				**Temp. Rise @ S.F. Load**	49°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT2

Load Characteristics 208 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	57	68	73	76	76	75
Efficiency	84.3	89.5	90.1	89.6	88	86.1	88.6
Speed	1192	1183	1173	1163	1150	1134	1155
Line amperes	4.98	6.11	7.69	9.46	11.7	14.3	10.8

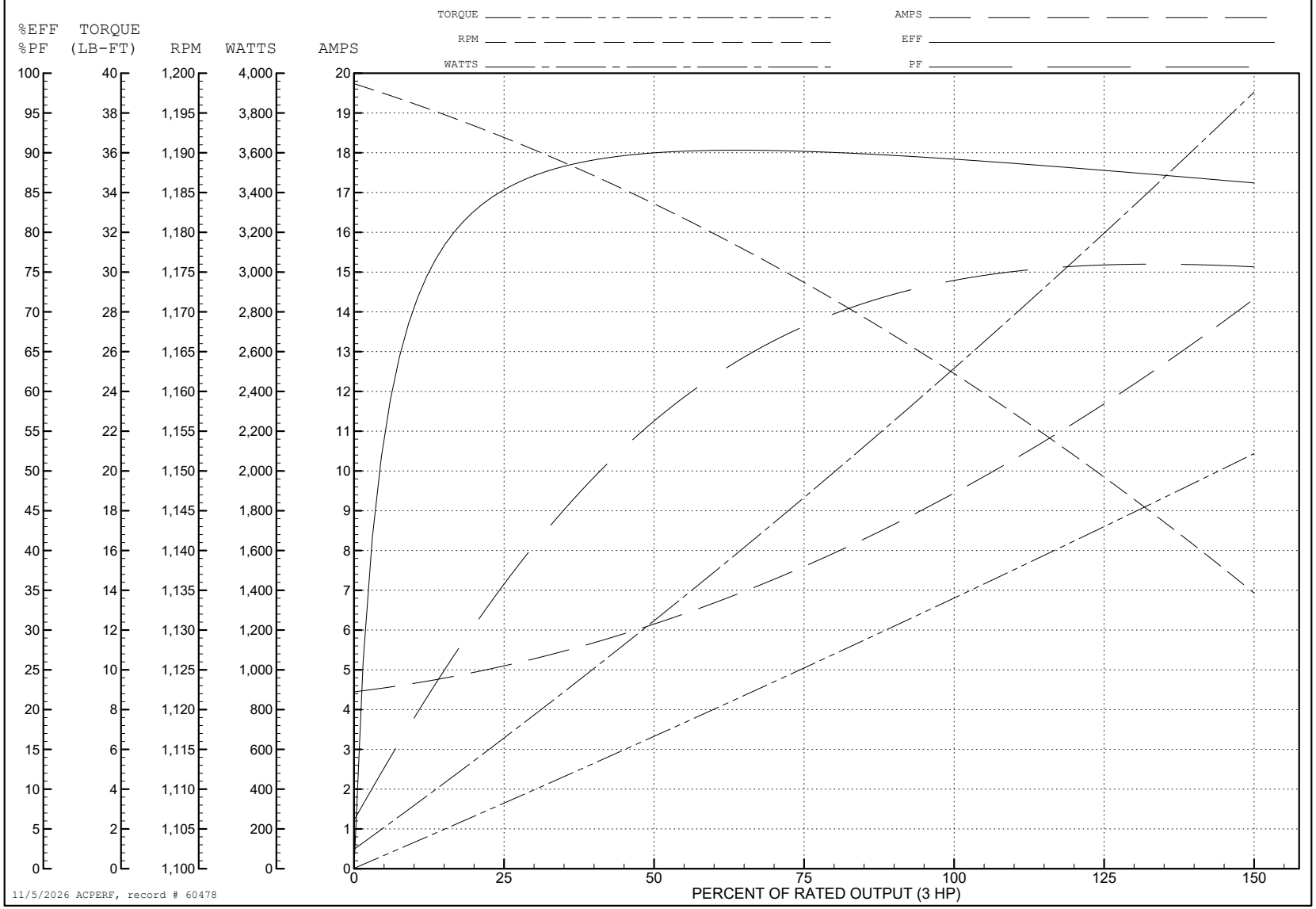
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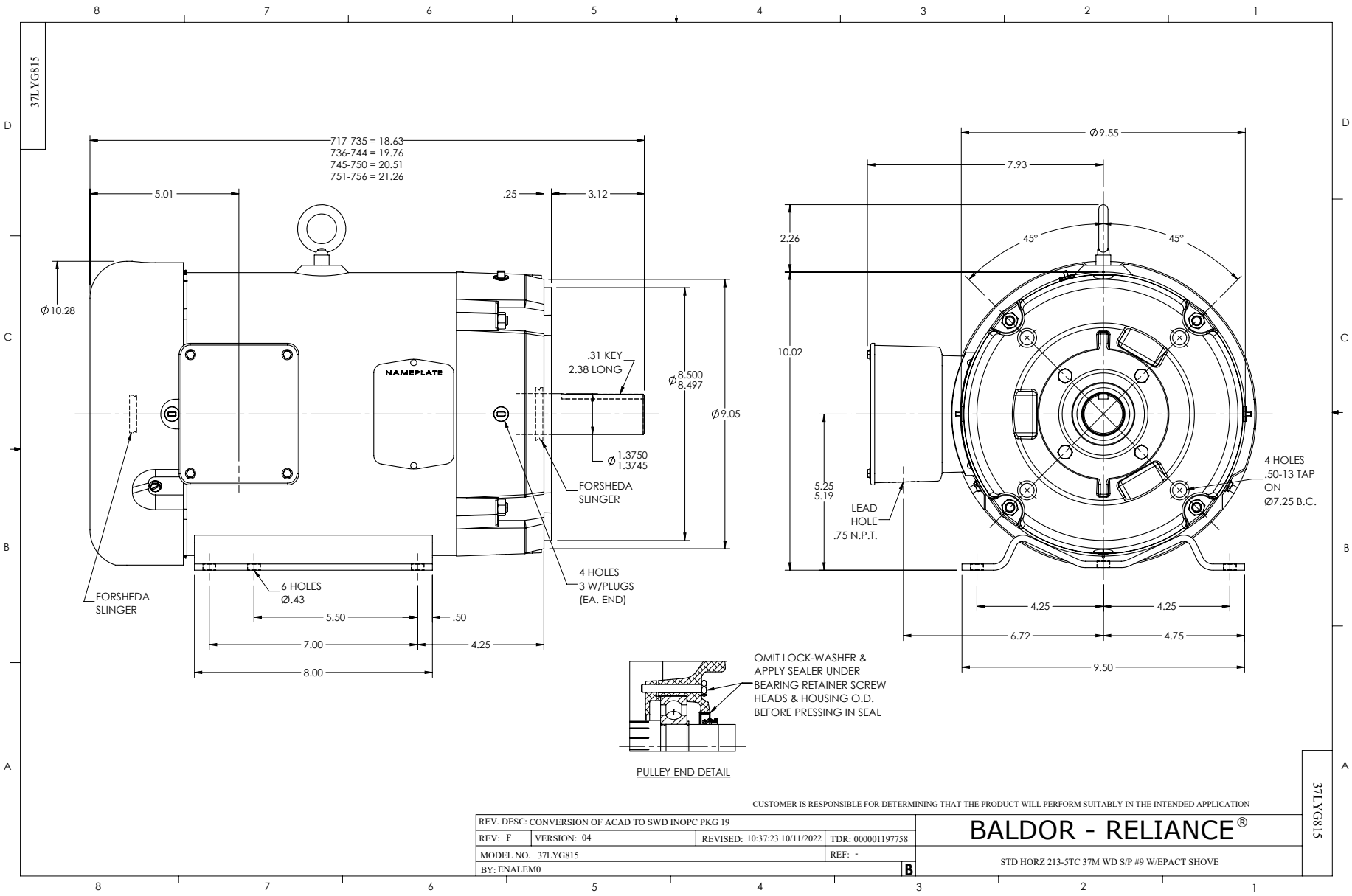
WINDING # 37WGS519

3 HP 3 PH 60 HZ 1160 RPM 208 V 3738M

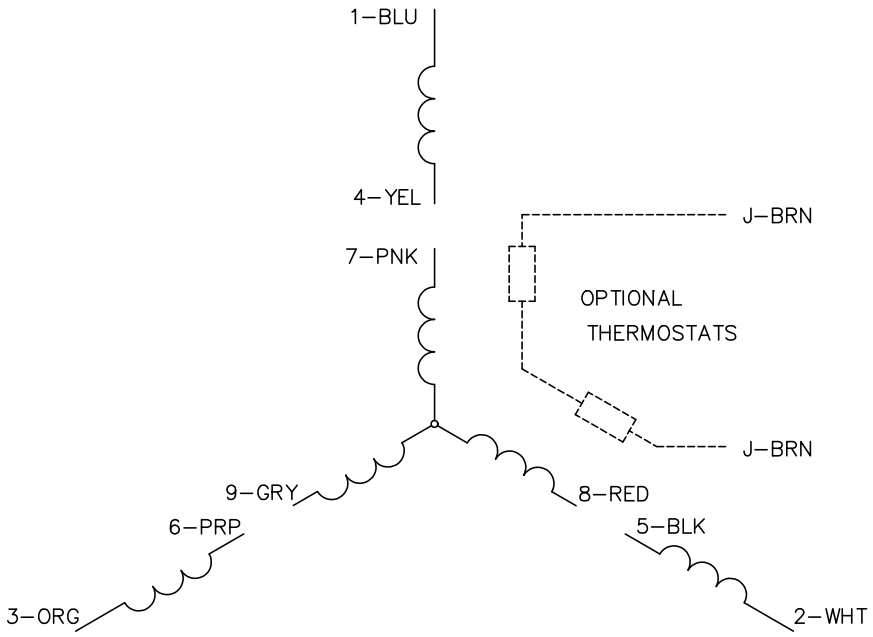
Typical performance - not guaranteed values.

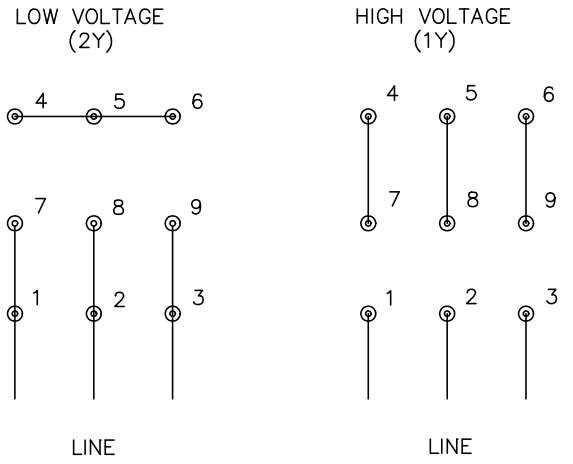
TORQUES(LB-FT): PO=41 PU=25.7 LR=27.3 LRA=61




37LYG815
717-735 = 18.63
736-744 = 19.76
745-750 = 20.51
751-756 = 21.26
5.01
.25
3.12
Ø10.28
NAMEPLATE
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø1.3750
1.3745
FORSHEDA
SLINGER
4 HOLES
3 W/PLUGS
(EA. END)
FORSHEDA
SLINGER
6 HOLES
Ø.43
5.50
.50
7.00
4.25
8.00
Ø9.55
7.93
45°
45°
2.26
10.02
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.72
4.75
9.50
OMIT LOCK-WASHER &
APPLY SEALER UNDER
BEARING RETAINER SCREW
HEADS & HOUSING O.D.
BEFORE PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: F
VERSION: 04
REVISED: 10:37:23 10/11/2022
TDR: 000001197758
MODEL NO. 37LYG815
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC 37M WD S/P #9 W/EPACT SHOVE
37LYG815

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS