ABB BALDOR RELIANCE

Customer information packet

EM7047T-I-5

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3738M, XPFC, F
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA 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	7.600 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.6 a

Part Detail

Revision	F
Type	AC
Mech. spec.	37H721
Base	
Status	PRD/A
Elec. spec.	37WGR907
Layout	37LYH721
Eff. date	02-21-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	12-09-2015

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.32 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
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	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	37H721R907G1										
CAT.NO.	EM7047T-I-5										
HP	7.5										
VOLTS	575										
AMPS	7.6										
RPM	1770					**MOTOR WEIGHT**	163				
HERTZ	60	**PH**	3	**CL**	F	**DE BRG**	6307				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6206				
FRAME	213T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT 55C AMB AT 1.0 SF										
				NEMA-NOM-EFF		91.7	**PF**	82			
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 54312
Typical performance - not guaranteed values

Winding: 37WGR907-R003	**Type:** 3738M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.2 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			7.6	**Breakdown Torque**	71 LB-FT
R.P.M.			1770	**Pull-up Torque**	32.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	43 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	56.9 A
Service Factor (S.F.)			1.15	**No-load Current**	3.48 A
NEMA Nom. Eff.	91.7	**Power Factor**	82	**Line-line Res. @ 25ºC**	2.22 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	37.3
				Rotor inertia	0.934 LB-FT2

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	63	75	80	83	84	82
Efficiency	87.1	91.7	91.9	92.1	91	89.9	91.4
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	3.9	4.84	6.1	7.61	9.29	11.1	8.62

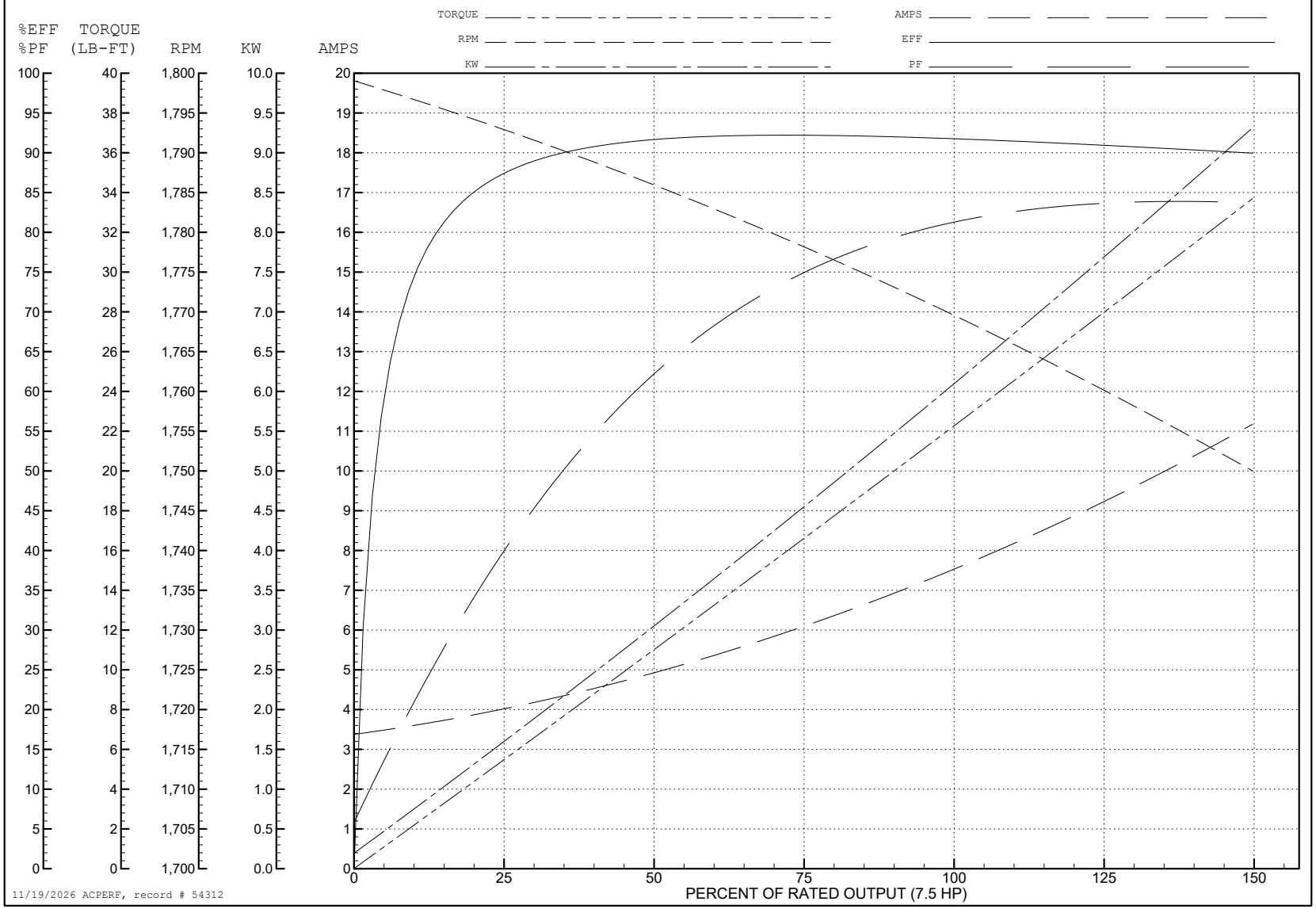
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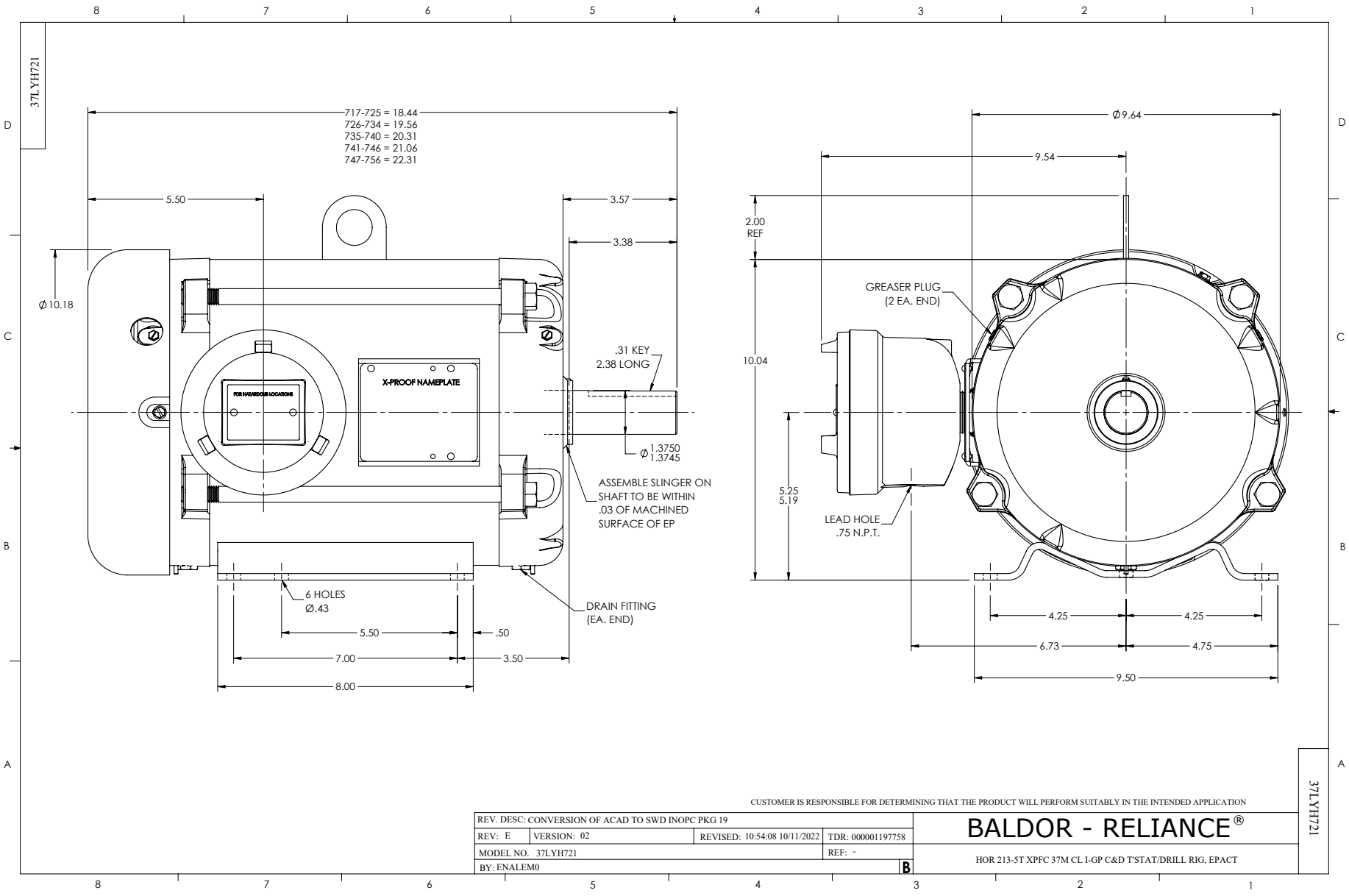
WINDING # 37WGR907

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 575 V 3738M

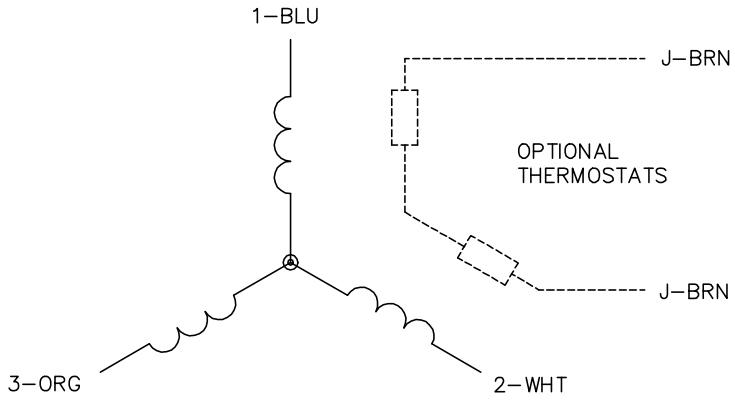
TORQUES(LB-FT): PO=71 PU=32.6 LR=43 LRA=56.9

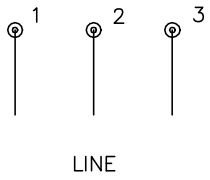



37LYH721
717-725 = 18.44
726-734 = 19.56
735-740 = 20.31
741-746 = 21.06
747-756 = 22.31
5.50
3.57
3.38
Ø10.18
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
.31 KEY
2.38 LONG
Ø1.3750
1.3745
ASSEMBLE SLINGER ON SHAFT TO BE WITHIN .03 OF MACHINED SURFACE OF EP
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
DRAIN FITTING (EA. END)
Ø9.64
9.54
2.00 REF
GREASER PLUG (2 EA. END)
10.04
5.25
5.19
LEAD HOLE .75 N.P.T.
4.25
4.25
6.73
4.75
9.50
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: E
VERSION: 02
REVISED: 10:54:08 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH721
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5T XPFC 37M CL I-GP C&D T'STAT/DRILL RIG, EPACT
37LYH721

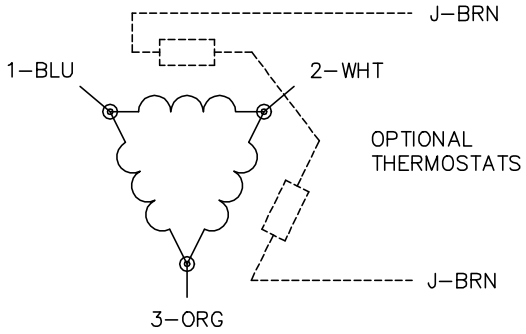
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1