ABB BALDOR RELIANCE

Customer information packet

CEM7047T-I

7.5//5HP, 1770//1475RPM, 3PH, 60//50HZ, 213T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213TC
Frame Material	Steel
Frequency	50.00 Hz
	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
	5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	CSA EEV
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	9.500 A @ 460.0 V
	8.100 A @ 380.0 V
	20.000 A @ 208.0 V
	19.000 A @ 230.0 V
	16.200 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	C
Type	AC
Mech. spec.	37H722
Base	
Status	PRD/A
Elec. spec.	37WGL864
Layout	37LYH722
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-02-2021

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.07 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm
	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.	37H722L864G1										
CAT.NO.	CEM7047T-I										
HP	7.5//5										
VOLTS	230/460//190/380										
AMPS	19/9.5//16.2/8.1										
RPM	1770//1475				**MOTOR WEIGHT**		163				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6307				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6206				
FRAME	213TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT 55C AMB AT 1.0 SF										
				NEMA-NOM-EFF		91.7	**PF**	80			
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 86495
Preliminary Data Sheet

Winding: 37WGL864-R004	**Type:** 3738M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			7.5
Volts			230/460
Full Load Amps			19.0/9.5
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			21.4/10.7

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	69.8 LB-FT
Pull-up Torque	31.5 LB-FT
Locked-rotor Torque	41 LB-FT
Starting Current	70.7 A
No-load Current	4.32 A
Line-line Res. @ 25ºC	1.48 Ω
Temp. Rise @ Rated Load	64°C
Temp. Rise @ S.F. Load	84°C
Locked-rotor Power Factor	41.9
Rotor inertia	0.934 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	83
Efficiency	87.1	91.4	92	91.7	90.7	89.6	90.7
Speed	1793	1786	1778	1770	1760	1750	1761
Line amperes	4.83	6.03	7.64	9.5	11.6	13.9	10.7

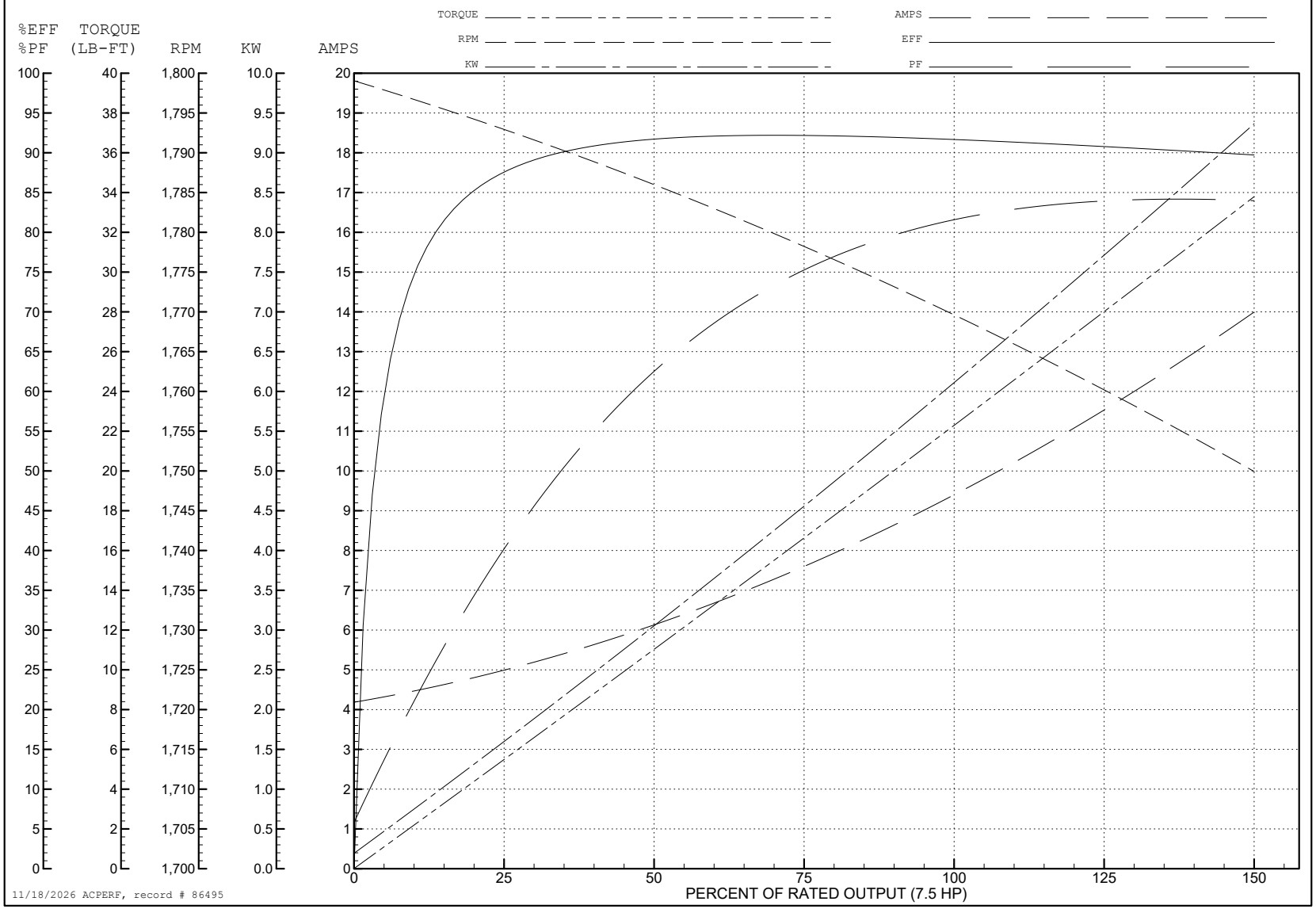
ABB Motors and Mechanical Inc.

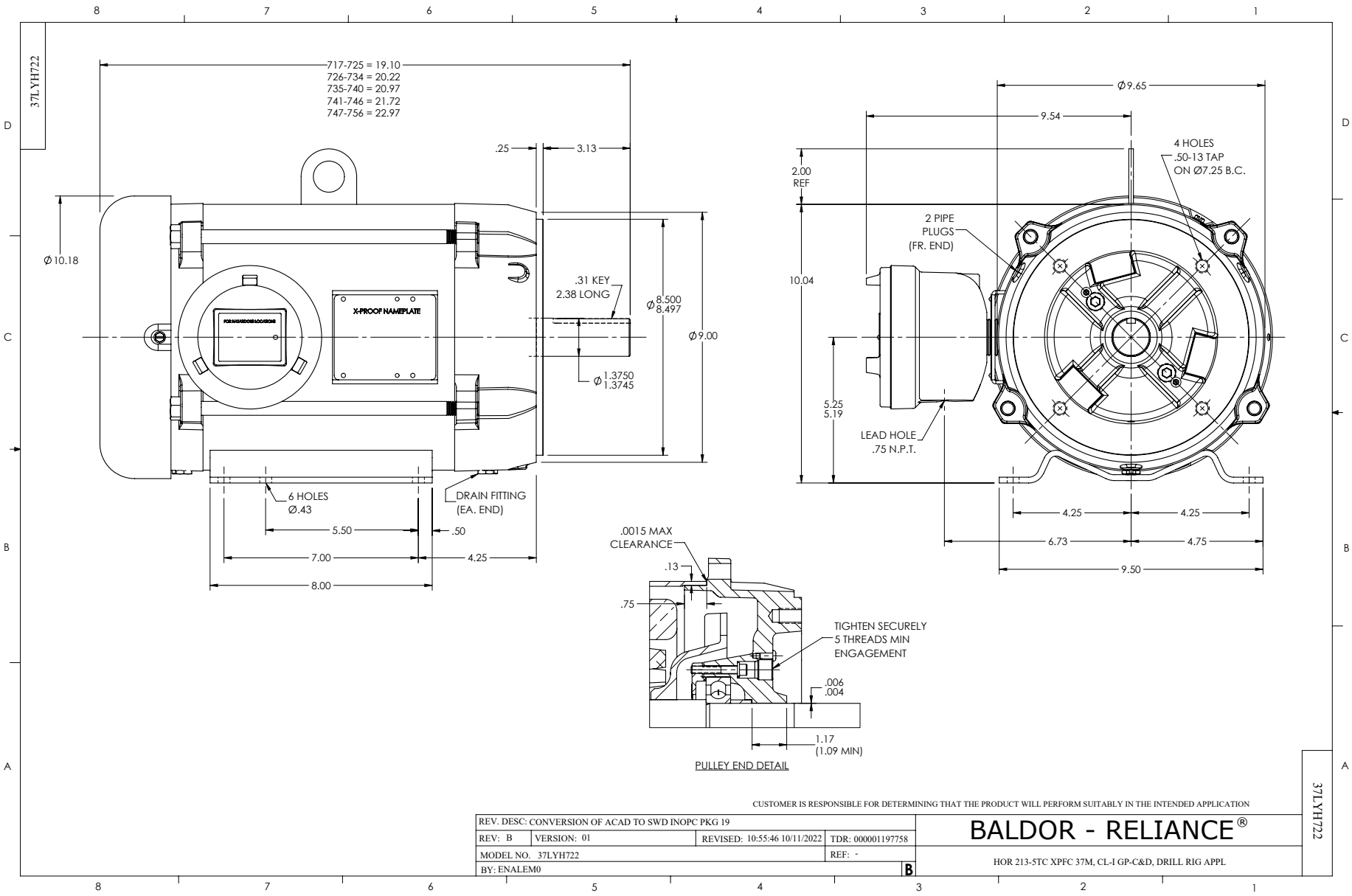
WINDING # 37WGL864

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

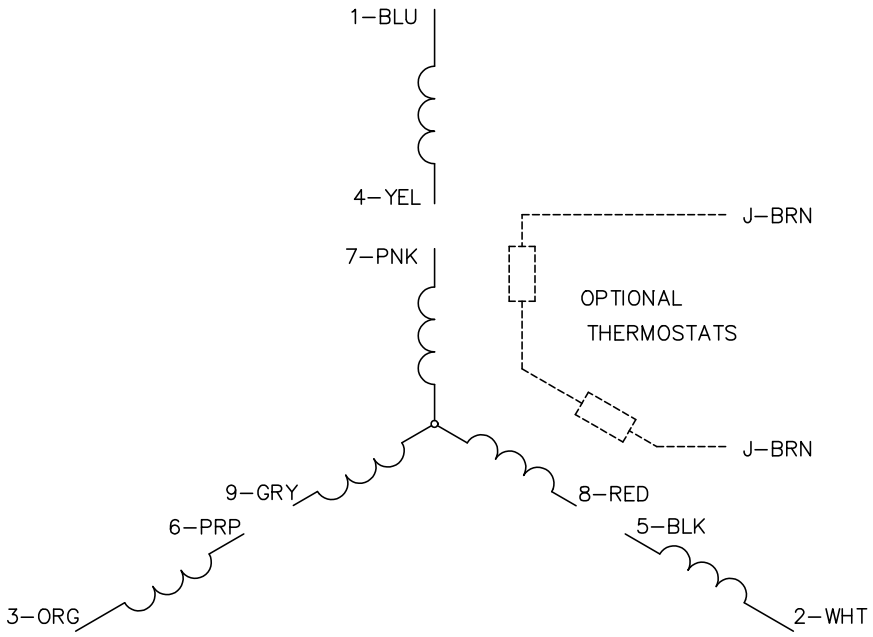
Typical performance - not guaranteed values.

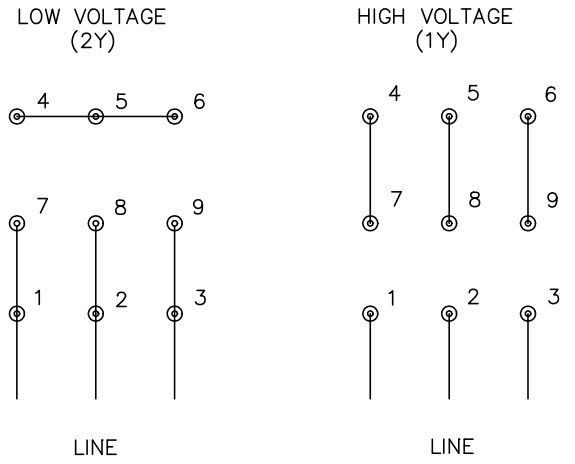
TORQUES(LB-FT): PO=69.8 PU=31.5 LR=41 LRA=70.7




37LYH722
717-725 = 19.10
726-734 = 20.22
735-740 = 20.97
741-746 = 21.72
747-756 = 22.97
.25
3.13
Ø10.18
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.00
Ø1.3750
1.3745
X-PROOF NAMEPLATE
6 HOLES
Ø.43
DRAIN FITTING
(EA. END)
5.50
.50
7.00
4.25
8.00
Ø9.65
9.54
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
2.00
REF
2 PIPE
PLUGS
(FR. END)
10.04
5.25
5.19
LEAD HOLE
.75 N.P.T.
4.25
4.25
6.73
4.75
9.50
.0015 MAX
CLEARANCE
.13
.75
TIGHTEN SECURELY
5 THREADS MIN
ENGAGEMENT
.006
.004
1.17
(1.09 MIN)
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: B
VERSION: 01
REVISED: 10:55:46 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH722
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5TC XPFC 37M, CL-I GP-C&D, DRILL RIG APPL
37LYH722

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