

ABB BALDOR RELIANCE III

Customer information packet

EM7047T-I-5

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3738M, XPFC, F

Class - CLI GP C,D

Division - Division I

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. @ 25°C		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

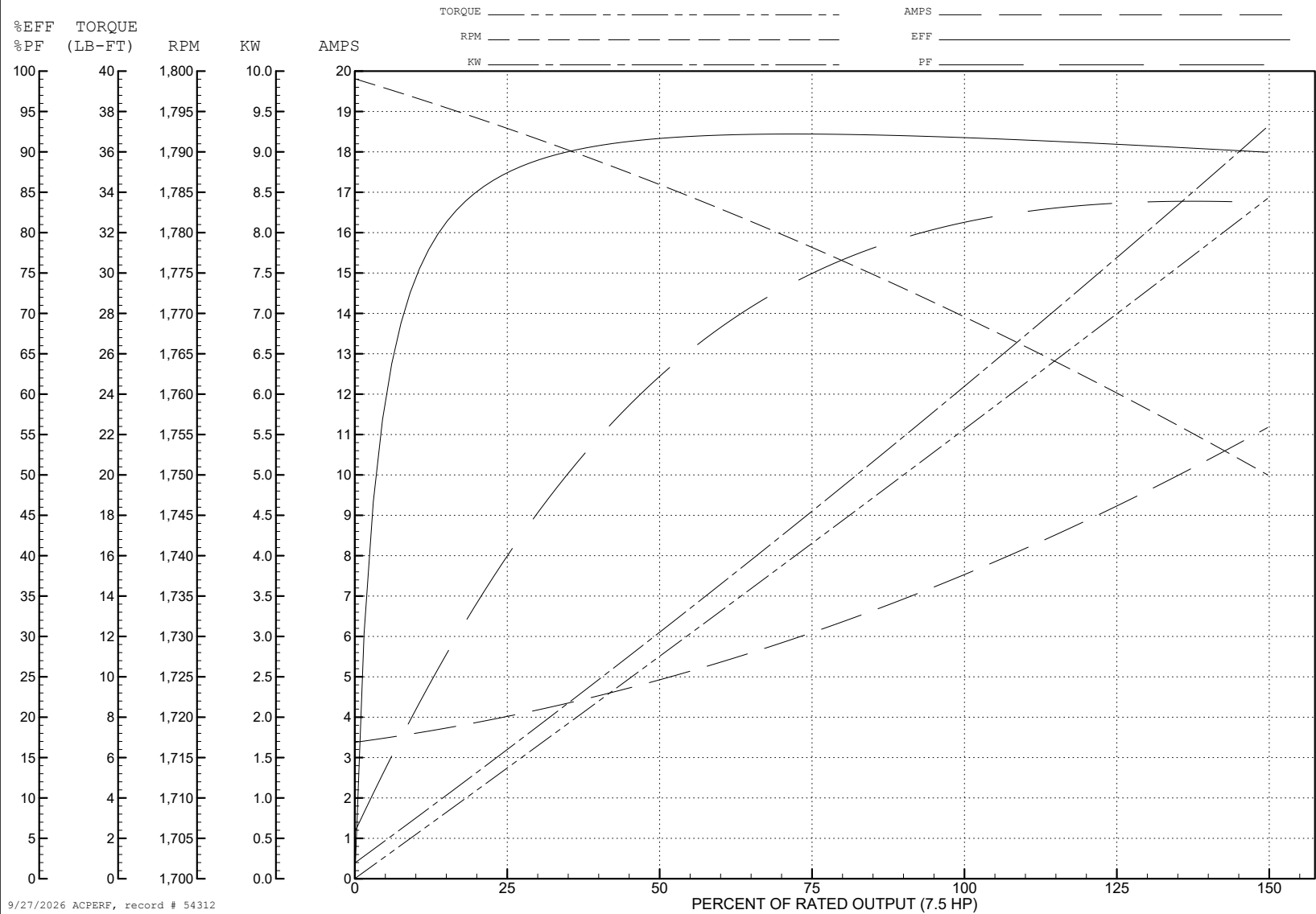
ABB Motors and Mechanical Inc.

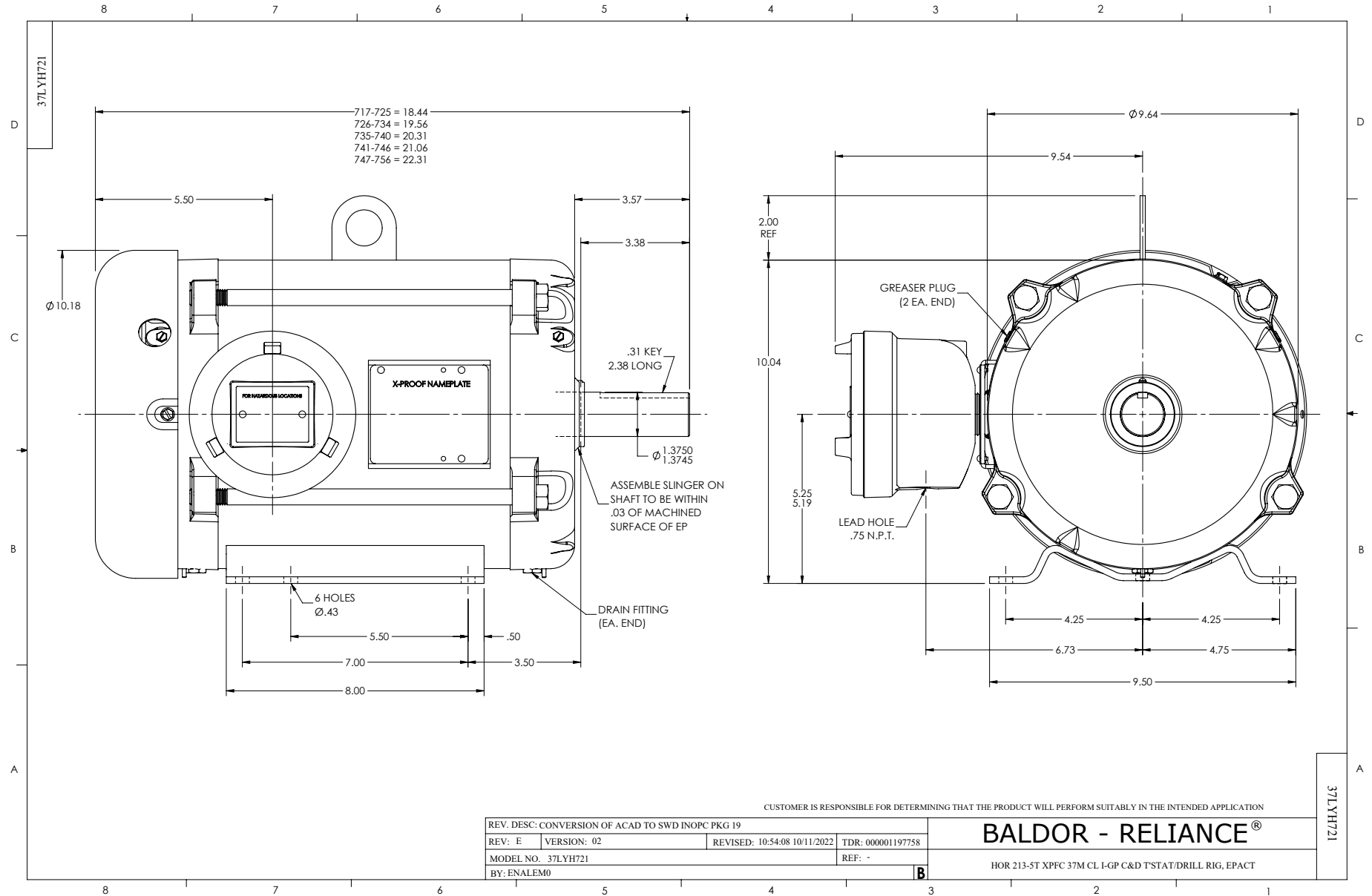
WINDING # 37WGR907

Typical performance - not guaranteed values.

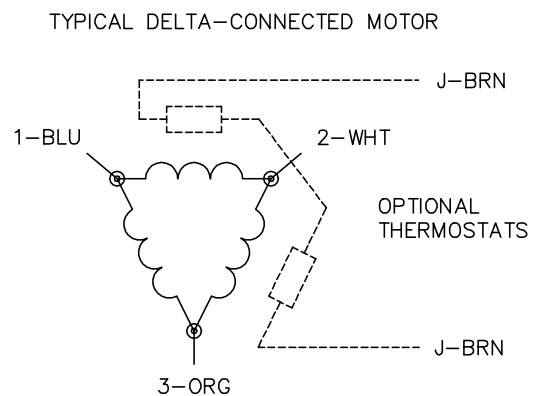
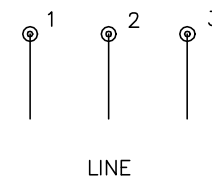
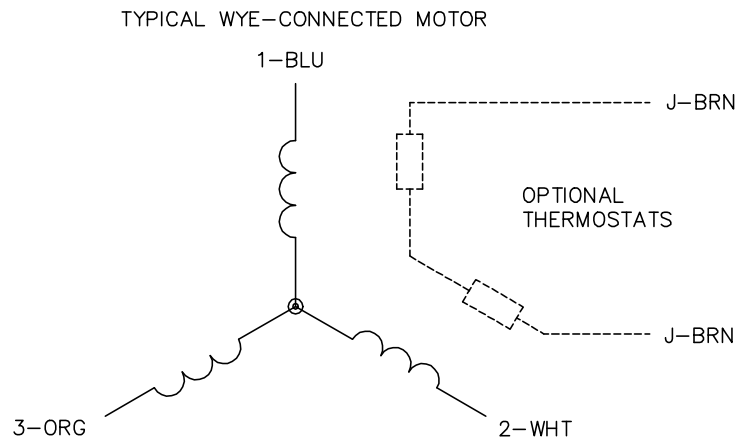
7.5 HP 3 PH 60 HZ 1770 RPM 575 V 3738M

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





CD0006


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

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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