ABB BALDOR RELIANCE

Customer information packet

XM21722T

7.5HP, 3520RPM, 3PH, 60HZ, 213T, XPFC, F1
Class - CLI GP D; CLII GP F,G
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 D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ
	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
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
Constant Torque Speed Range	6
Current @ Voltage	8.700 A @ 460.0 V
	17.400 A @ 230.0 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

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGR752
Layout	37LYN517
Eff. date	12-09-2021
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-22-2019

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.7 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.19 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	37-0000-0053			**INV.TYPE**	PWM						
CAT.NO.	XM21722T			**C HP FR**	60	**C HP TO**	90				
HP	7.5//5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	17.4/8.7		**MAG CUR**	6/3							
RPM	3520//2900		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.3	**WK2**	0.255				
FRAME	213T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF										
	1.15 SF ON SINEWAVE			NEMA MG-1 PT 5,IP54							

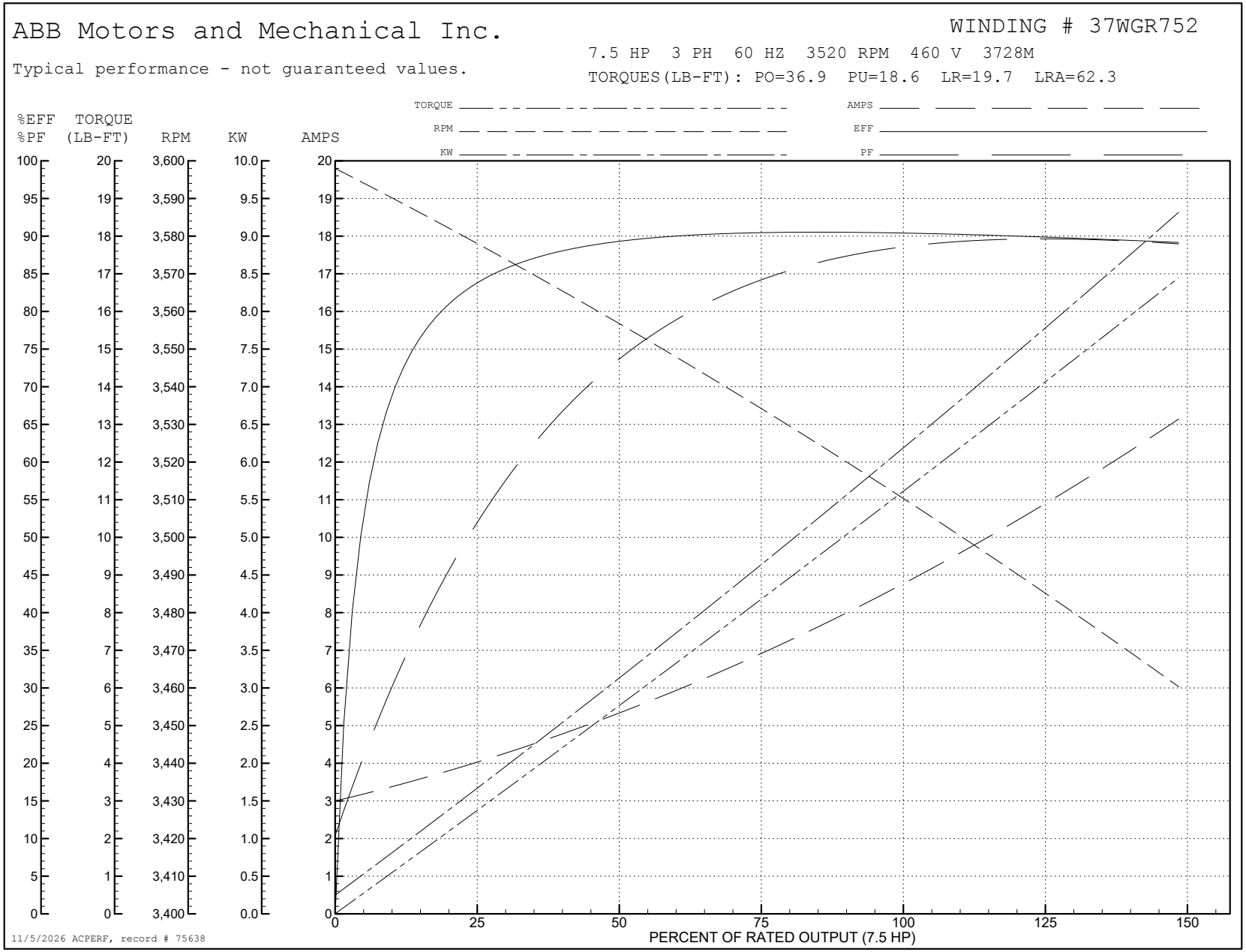
AC Induction Motor Performance Data
Record # 75638
Typical performance - not guaranteed values

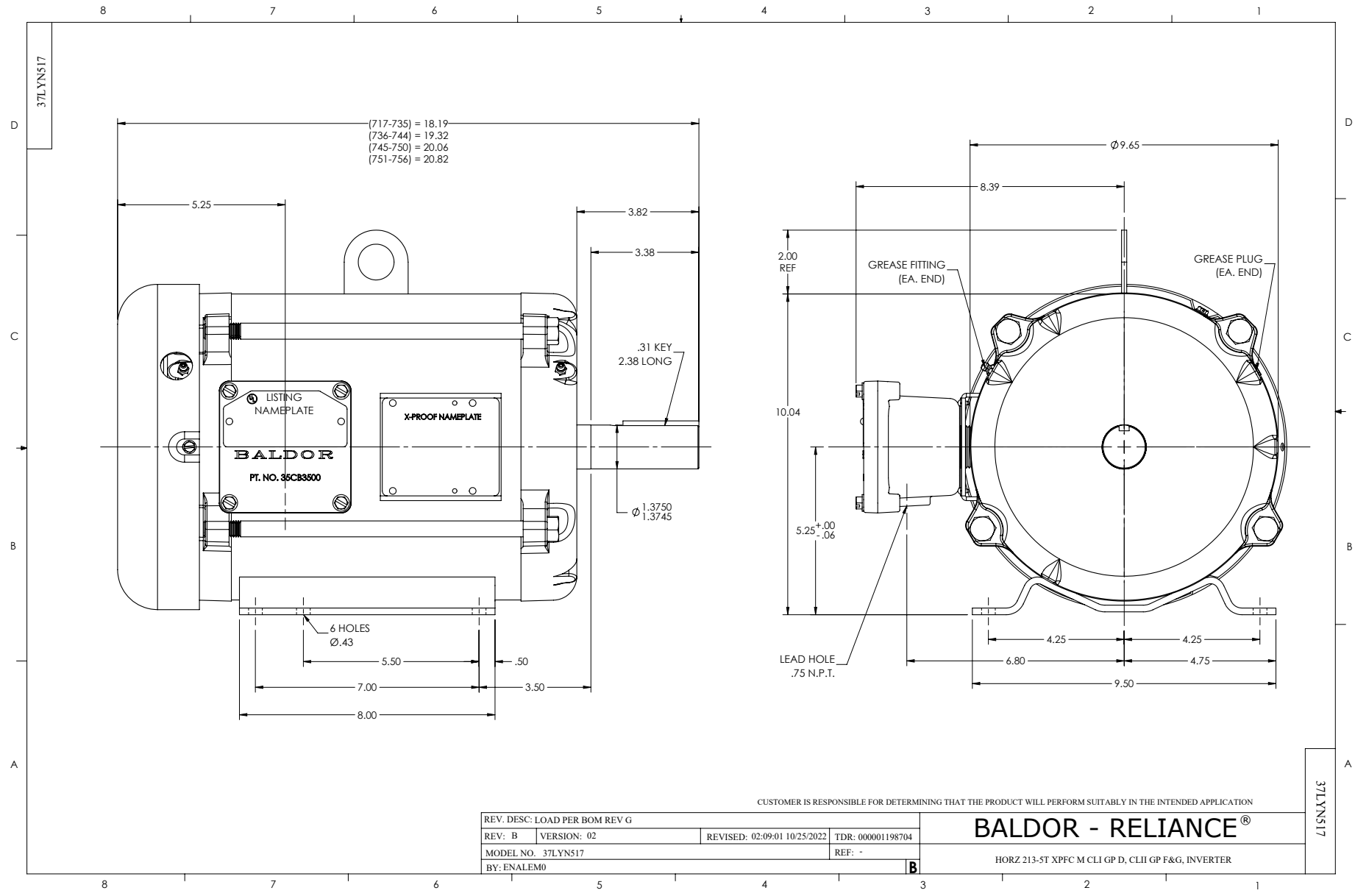
Winding: 37WGR752-R001	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	10.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			17.4/8.7	**Breakdown Torque**	36.9 LB-FT
R.P.M.			3520	**Pull-up Torque**	18.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	19.7 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	62.3 A
Service Factor (S.F.)			1.15	**No-load Current**	3.16 A
NEMA Nom. Eff.	89.5	**Power Factor**	87	**Line-line Res. @ 25ºC**	1.21 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	32.9
				Rotor inertia	0.255 LB-FT2

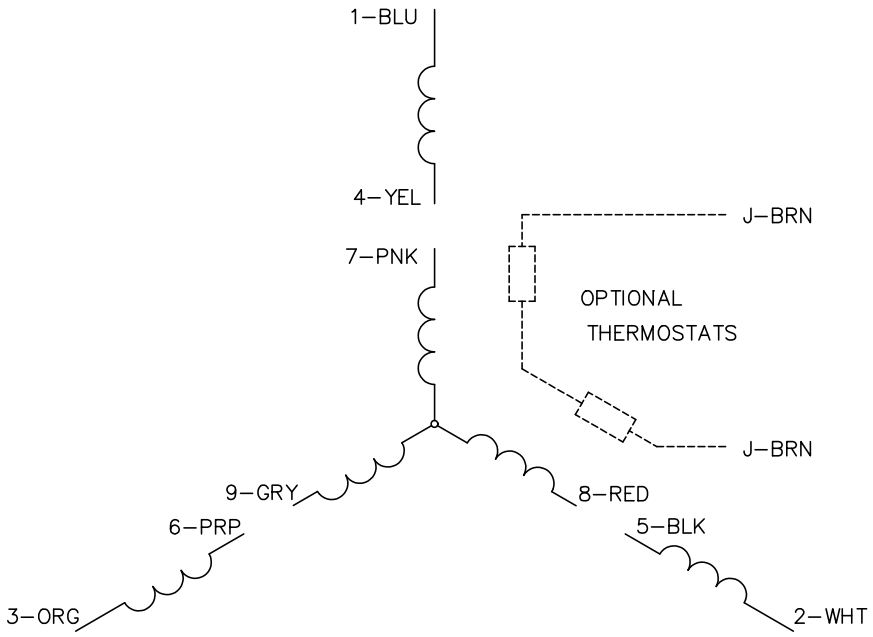
Load Characteristics 460 V, 60 Hz, 7.5 HP

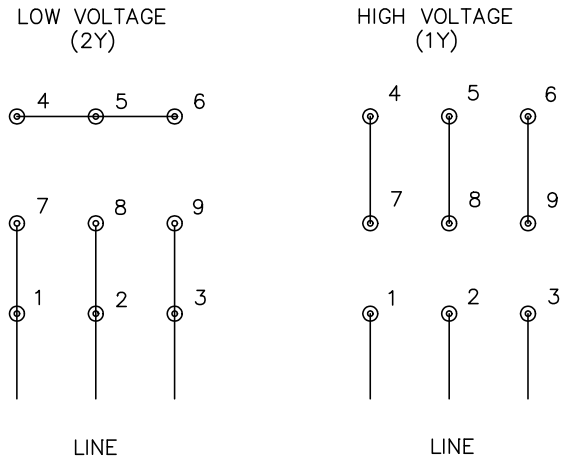
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	74	83	87	89	90	88
Efficiency	82	89	90.4	90.6	89.7	89.2	90.1
Speed	3579	3560	3537	3514	3488	3460	3498
Line amperes	3.74	4.97	6.71	8.67	10.8	13	9.95


ABB Motors and Mechanical Inc.
WINDING # 37WGR752
7.5 HP 3 PH 60 HZ 3520 RPM 460 V 3728M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=36.9 PU=18.6 LR=19.7 LRA=62.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/5/2026 ACPERF, record # 75638


37LYN517
(717-735) = 18.19
(736-744) = 19.32
(745-750) = 20.06
(751-756) = 20.82
5.25
3.82
3.38
.31 KEY
2.38 LONG
LISTING
NAMEPLATE
BALDOR
PT. NO. 35CB3500
X-PROOF NAMEPLATE
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.65
8.39
2.00
REF
GREASE FITTING
(EA. END)
GREASE PLUG
(EA. END)
10.04
5.25 +.00 -.06
LEAD HOLE
.75 N.P.T.
4.25
4.25
6.80
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PER BOM REV G
REV: B
VERSION: 02
REVISED: 02:09:01 10/25/2022
TDR: 000001198704
MODEL NO. 37LYN517
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T XPFC M CLI GP D, CLII GP F&G, INVERTER
37LYN517

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