ABB BALDOR RELIANCE

Customer information packet

XM21742T

7.5HP, 1770//1470RPM, 3PH, 60HZ, 213T, XPFC, F
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz
	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	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	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	9.400 A @ 460.0 V
	7.800 A @ 380.0 V
	18.800 A @ 230.0 V
	15.600 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGR374
Layout	37LYN517
Eff. date	01-13-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-04-2019

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.32 IN
Power Factor	83
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	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

NP0887XPSLEV									
NO.				**CC**	010A				
S/N				**TEMP CODE**	T3C				
SPEC.	37-0000-0043			**INV.TYPE**	PWM				
CAT.NO.	XM21742T			**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	18.8/9.4//15.6/7.8			**MAG CUR**	8.4/4.2				
RPM	1770//1470			**MX RPM**	2700				
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7		
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	1.08		
FRAME	213T	**RATING**	40C AMB-CONT						
	55C AMB @ 1.0 SF								
	1.15 SF SINEWAVE				NEMA MG-1 PT 5,IP54				

AC Induction Motor Performance Data
Record # 75486
Typical performance - not guaranteed values

Winding: 37WGR374-R001	**Type:** 3744M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5//5	**Full Load Torque**	22.2 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			18.8/9.4//15.6/7.8	**Breakdown Torque**	72.7 LB-FT
R.P.M.			1770//1470	**Pull-up Torque**	34.3 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	43.3 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	74.2 A
Service Factor (S.F.)			1	**No-load Current**	4.19 A
NEMA Nom. Eff.	91.7	**Power Factor**	83	**Line-line Res. @ 25ºC**	1.25 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	36
				Rotor inertia	1.08 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	65	76	83	85	85
Efficiency	88.3	91.7	92.9	92.4	91.7	90.4
Speed	1794	1787	1780	1772	1764	1755
Line amperes	4.84	5.92	7.41	9.18	11.3	13.6

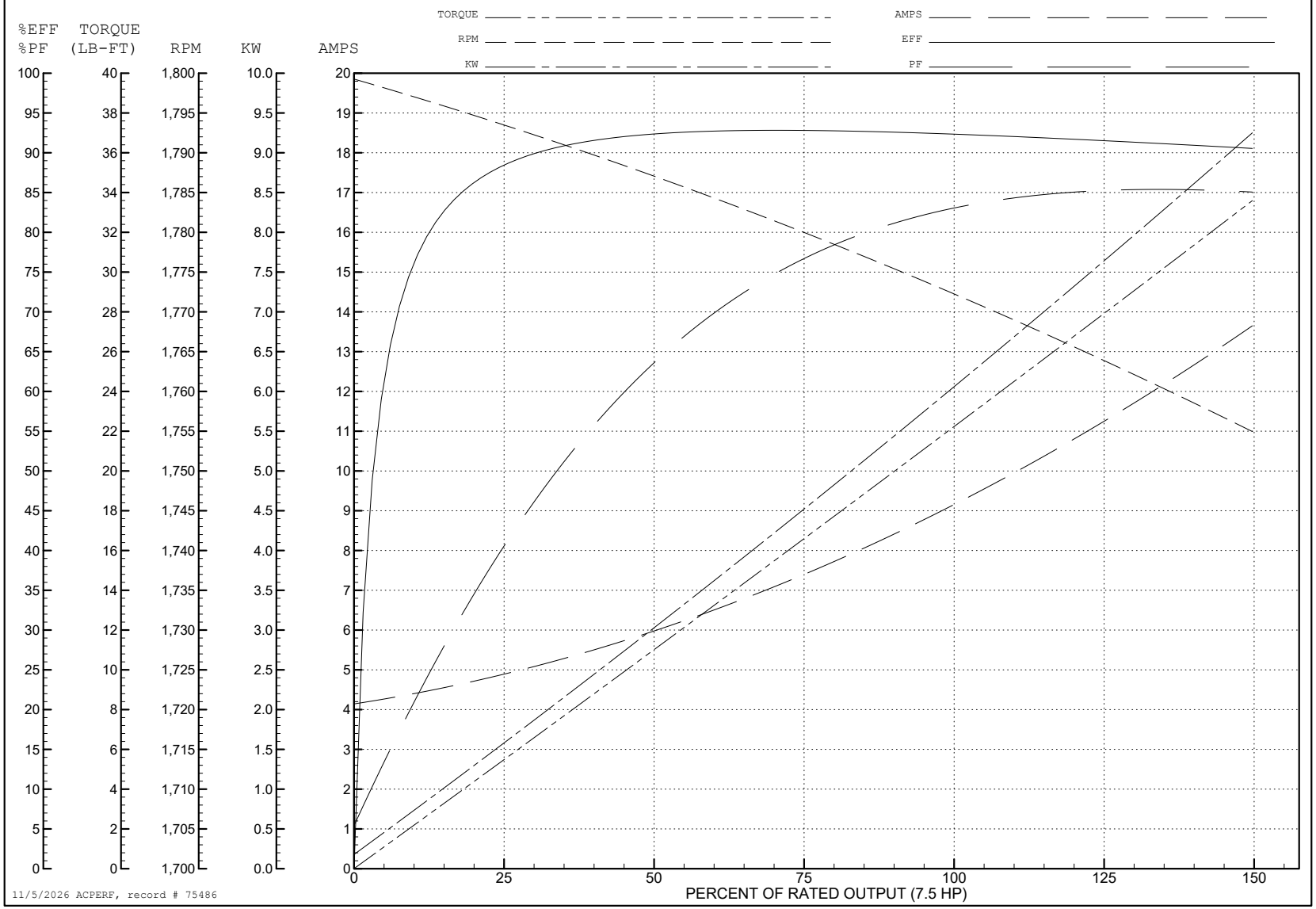
ABB Motors and Mechanical Inc.

WINDING # 37WGR374

7.5 HP 3 PH 60 HZ 1772 RPM 460 V 3744M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=72.7 PU=34.3 LR=43.3 LRA=74.2



AC Induction Motor Performance Data
Record # 75487
Typical performance - not guaranteed values

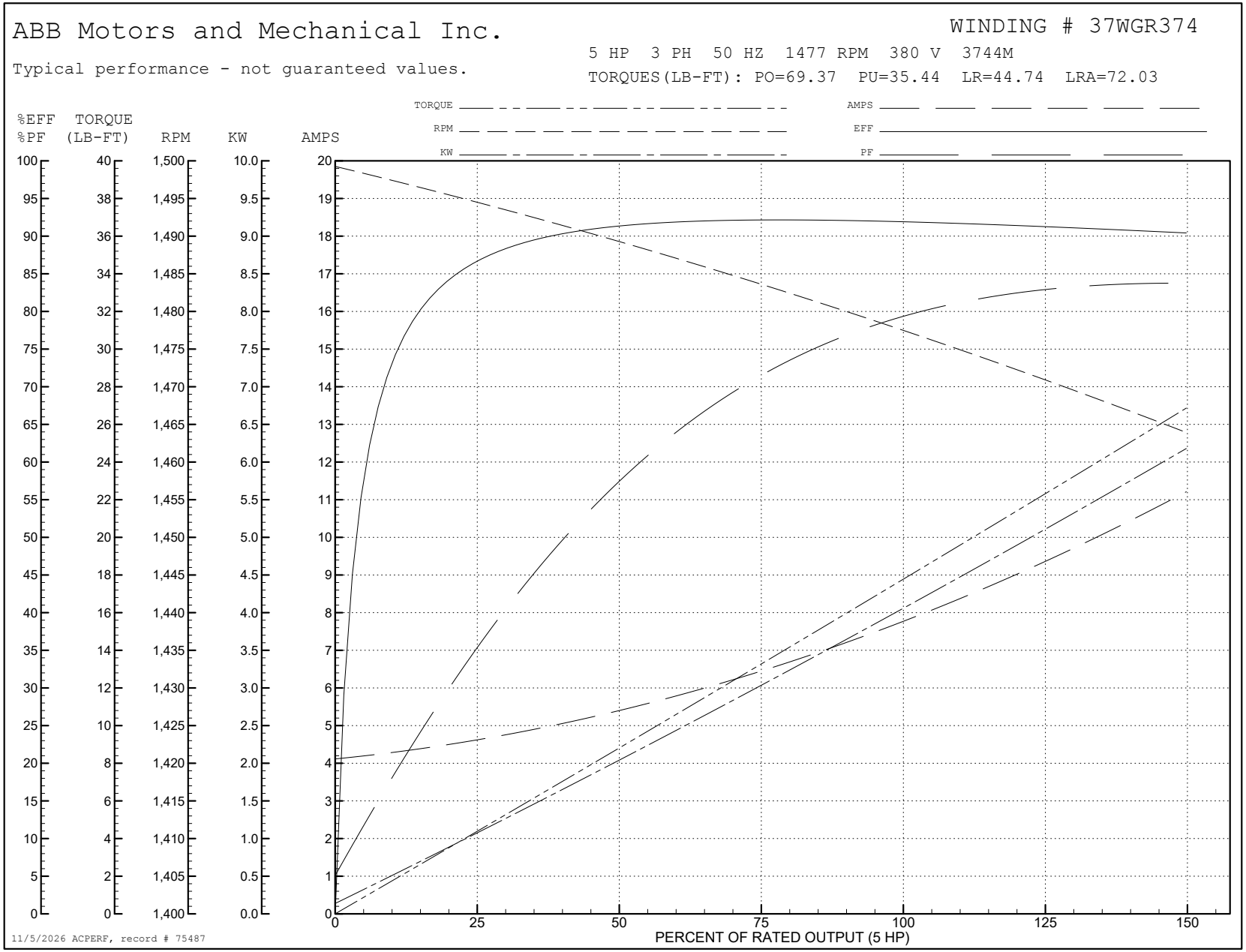
Winding: 37WGR374-R001	**Type:** 3744M	**Enclosure:** XPFC

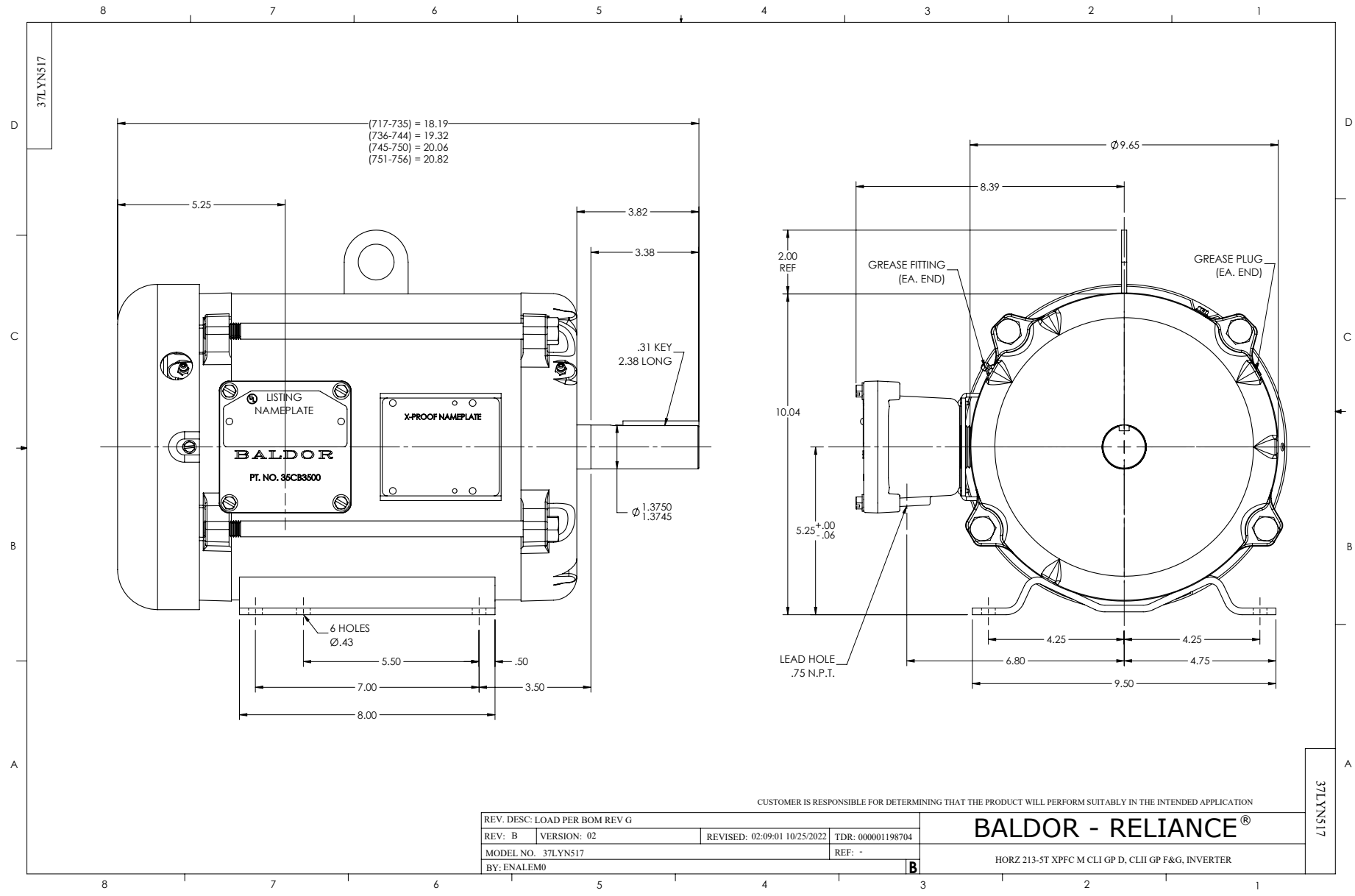
Nameplate Data			
Rated Output (HP)			7.5//5
Volts			230/460//190/380
Full Load Amps			18.8/9.4//15.6/7.8
R.P.M.			1770//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	83
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	17.74 LB-FT
Start Configuration	direct on line
Breakdown Torque	69.37 LB-FT
Pull-up Torque	35.44 LB-FT
Locked-rotor Torque	44.74 LB-FT
Starting Current	72.03 A
No-load Current	4.13 A
Line-line Res. @ 25ºC	1.25 Ω
Temp. Rise @ Rated Load	39°C
Locked-rotor Power Factor	40.1
Rotor inertia	1.08 LB-FT2

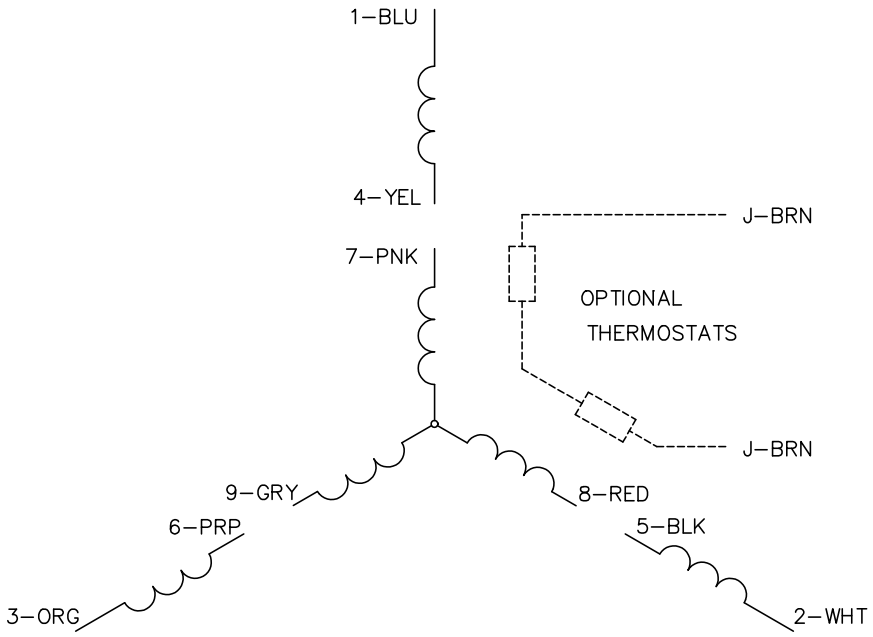
Load Characteristics 380 V, 50 Hz, 5 HP

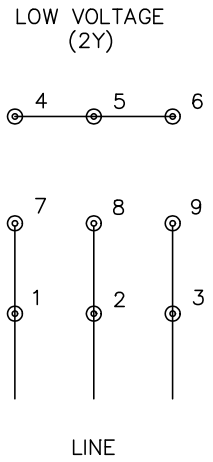
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	58	71	79	82	84
Efficiency	86.5	90.7	92.3	91.9	91.4	90.3
Speed	1495	1489	1484	1477	1471	1464
Line amperes	4.62	5.36	6.45	7.77	9.41	11.18

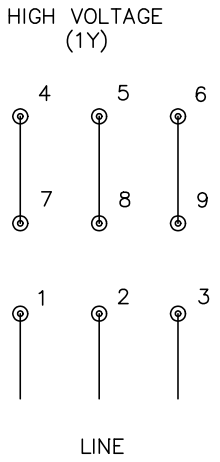

ABB Motors and Mechanical Inc.
WINDING # 37WGR374
5 HP 3 PH 50 HZ 1477 RPM 380 V 3744M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=69.37 PU=35.44 LR=44.74 LRA=72.03
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/5/2026 ACPERF, record # 75487


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