ABB BALDOR RELIANCE

Customer information packet

CXM21742T

7.5//5HP, 1770//1470RPM, 3PH, 60//50HZ, 213T
Class - CLI GP D; CLII GP F,G
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 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	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	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
Constant Torque Speed Range	6
Current @ Voltage	16.200 A @ 190.0 V
	19.000 A @ 230.0 V
	8.100 A @ 380.0 V
	9.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGR872
Layout	37LYL772
Eff. date	12-09-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-18-2021

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	8.1 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	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.81 IN
Power Factor	80
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
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.	37-0000-0322			**INV.TYPE**	PWM				
CAT.NO.	CXM21742T			**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	19/9.5//16.2/8.1		**MAG CUR**	8.6/4.3					
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**	0.934		
FRAME	213TC	**RATING**	40C AMB-CONT						
	NEMA MG-1 PART 5, IP54								
	1.15 SF ON SINE WAVE								

AC Induction Motor Performance Data
Record # 73680
Typical performance - not guaranteed values

Winding: 37WGR872-R029	**Type:** 3738M	**Enclosure:** XPFC

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			19/9.5//16.2/8.1	**Breakdown Torque**	70.9 LB-FT
R.P.M.			1770//1470	**Pull-up Torque**	32.6 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	43 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	70.9 A
Service Factor (S.F.)			1	**No-load Current**	4.31 A
NEMA Nom. Eff.	91.7	**Power Factor**	80	**Line-line Res. @ 25ºC**	1.41 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
				Locked-rotor Power Factor	37.2
				Rotor inertia	0.934 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	75	80	83	84
Efficiency	87.1	91.5	91.9	91.9	91	89.8
Speed	1793	1786	1778	1770	1760	1750
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9

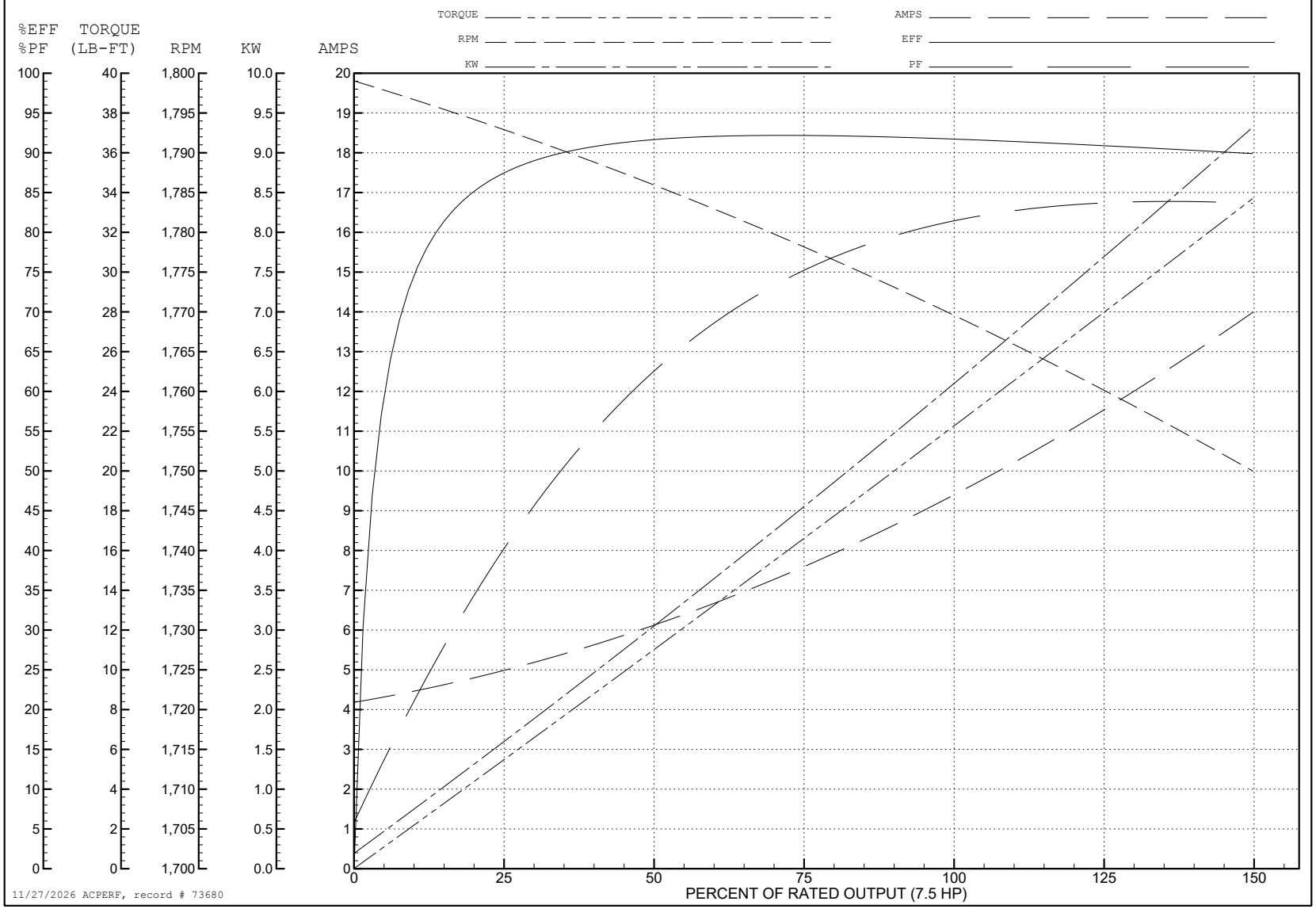
ABB Motors and Mechanical Inc.

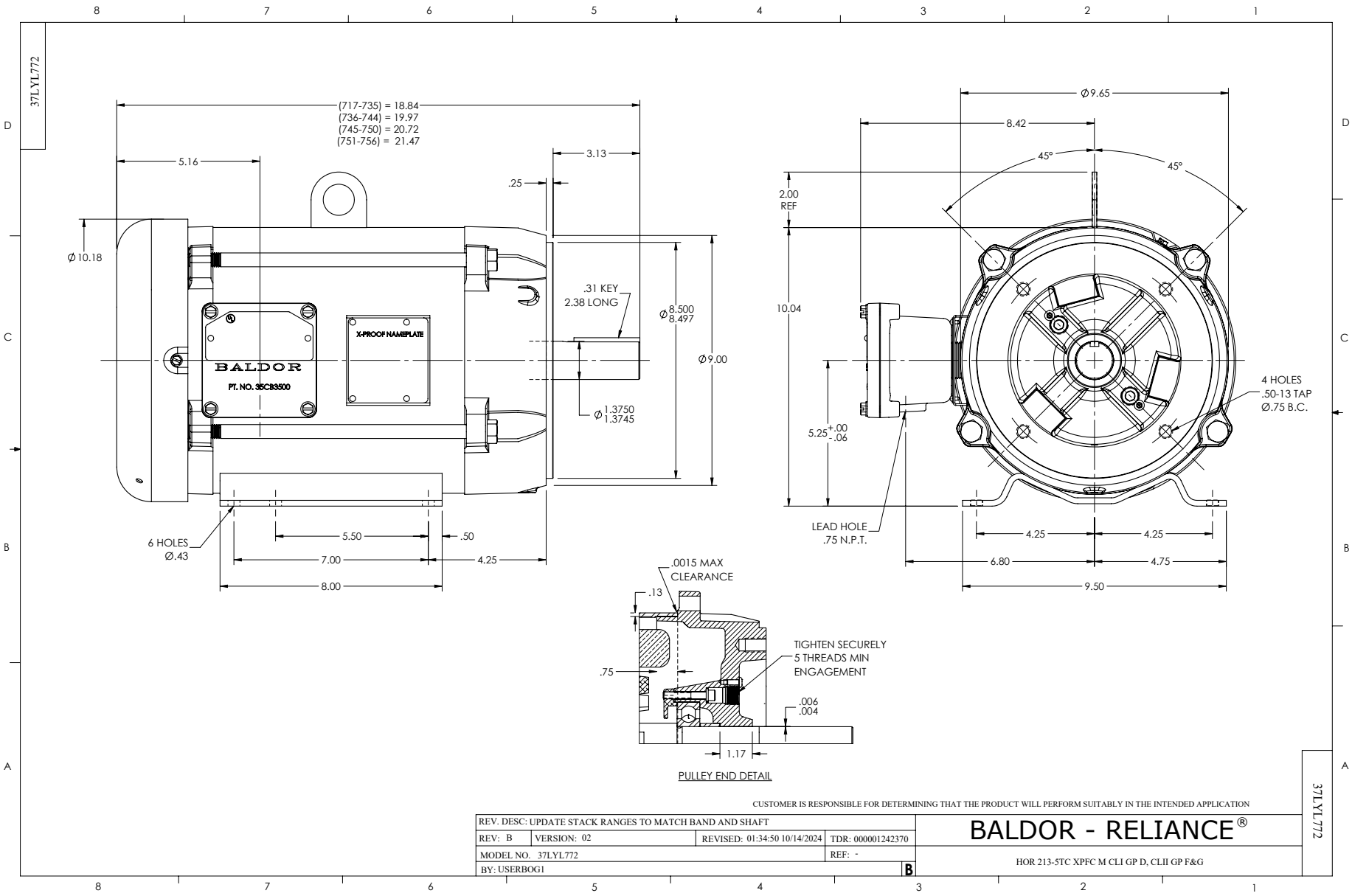
WINDING # 37WGR872

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

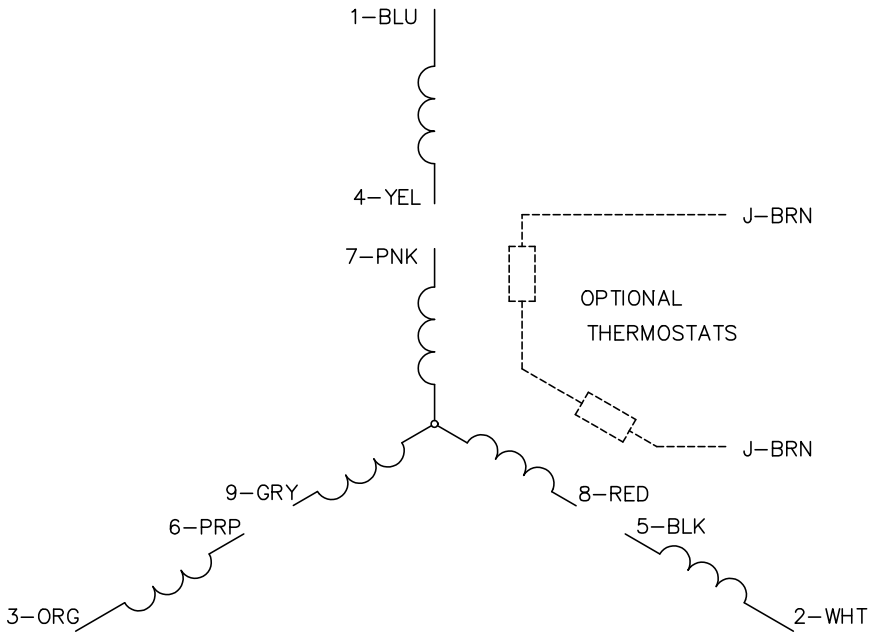
Typical performance - not guaranteed values.

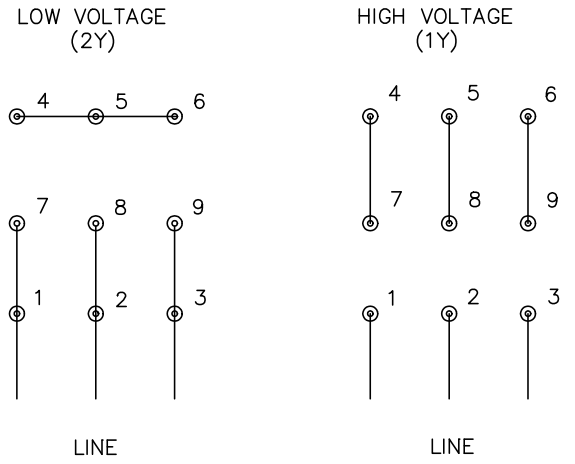
TORQUES(LB-FT): PO=70.9 PU=32.6 LR=43 LRA=70.9




37LYL772
(717-735) = 18.84
(736-744) = 19.97
(745-750) = 20.72
(751-756) = 21.47
5.16
3.13
.25
Ø10.18
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.00
Ø1.3750
1.3745
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
6 HOLES
Ø.43
5.50
.50
7.00
4.25
8.00
Ø9.65
8.42
45°
45°
2.00
REF
10.04
5.25 +.00 -.06
4 HOLES
.50-13 TAP
Ø.75 B.C.
LEAD HOLE
.75 N.P.T.
4.25
4.25
6.80
4.75
9.50
.0015 MAX
CLEARANCE
.13
.75
TIGHTEN SECURELY
5 THREADS MIN
ENGAGEMENT
.006
.004
1.17
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE STACK RANGES TO MATCH BAND AND SHAFT
REV: B
VERSION: 02
REVISED: 01:34:50 10/14/2024
TDR: 000001242370
MODEL NO. 37LYL772
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
HOR 213-5TC XPFC M CLI GP D, CLII GP F&G
37LYL772

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