ABB BALDOR RELIANCE

Customer information packet

CXM21122T

10//7.5HP, 3510//2915RPM, 3PH, 60//50HZ, 215
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215TC
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	10.000 HP @ 60 HZ
	7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	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	22.400 A @ 230.0 V
	20.800 A @ 190.0 V
	11.200 A @ 460.0 V
	10.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS627
Layout	37LYL772
Eff. date	07-02-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-23-2021

Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5200 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.81 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3510 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.	37-0000-0380			**INV.TYPE**	PWM					
CAT.NO.	CXM21122T			**C HP FR**	60	**C HP TO**	90			
HP	10//7.5			**CT HZ FROM**	6			**CT HZ TO**	60	
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60	
AMPS	22.4/11.2//20.8/10.4		**MAG CUR**	1.71/3.42						
RPM	3510//2915		**MX RPM**	5200						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	90.2			
SER.F.	1.15	**DES**	B	**SL HZ**	1.5	**WK2**	0.456			
FRAME	215TC	**RATING**	40C AMB-CONT							
	NEMA MG-1 PART 5, IP54									
	1.15 SF ON SINE WAVE									

AC Induction Motor Performance Data
Record # 87974
Typical performance - not guaranteed values

Winding: 37WGS627-R002	**Type:** 3750M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			22.4/11.2//20.8/10.4
R.P.M.			3510
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	90.2	**Power Factor**	90
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	14.93 LB-FT
Start Configuration	direct on line
Breakdown Torque	54 LB-FT
Pull-up Torque	25.7 LB-FT
Locked-rotor Torque	29.9 LB-FT
Starting Current	87.3 A
No-load Current	3.29 A
Line-line Res. @ 25ºC	0.73857 Ω
Temp. Rise @ Rated Load	52°C
Locked-rotor Power Factor	29.7

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	61	81	88	90	91	91
Efficiency	89	92.4	92.8	92.3	91.3	90.1
Speed	3578.8	3557.6	3534.8	3510.8	3483.4	3454.5
Line amperes	4.33	6.25	8.6	11.2	14.1	17.1

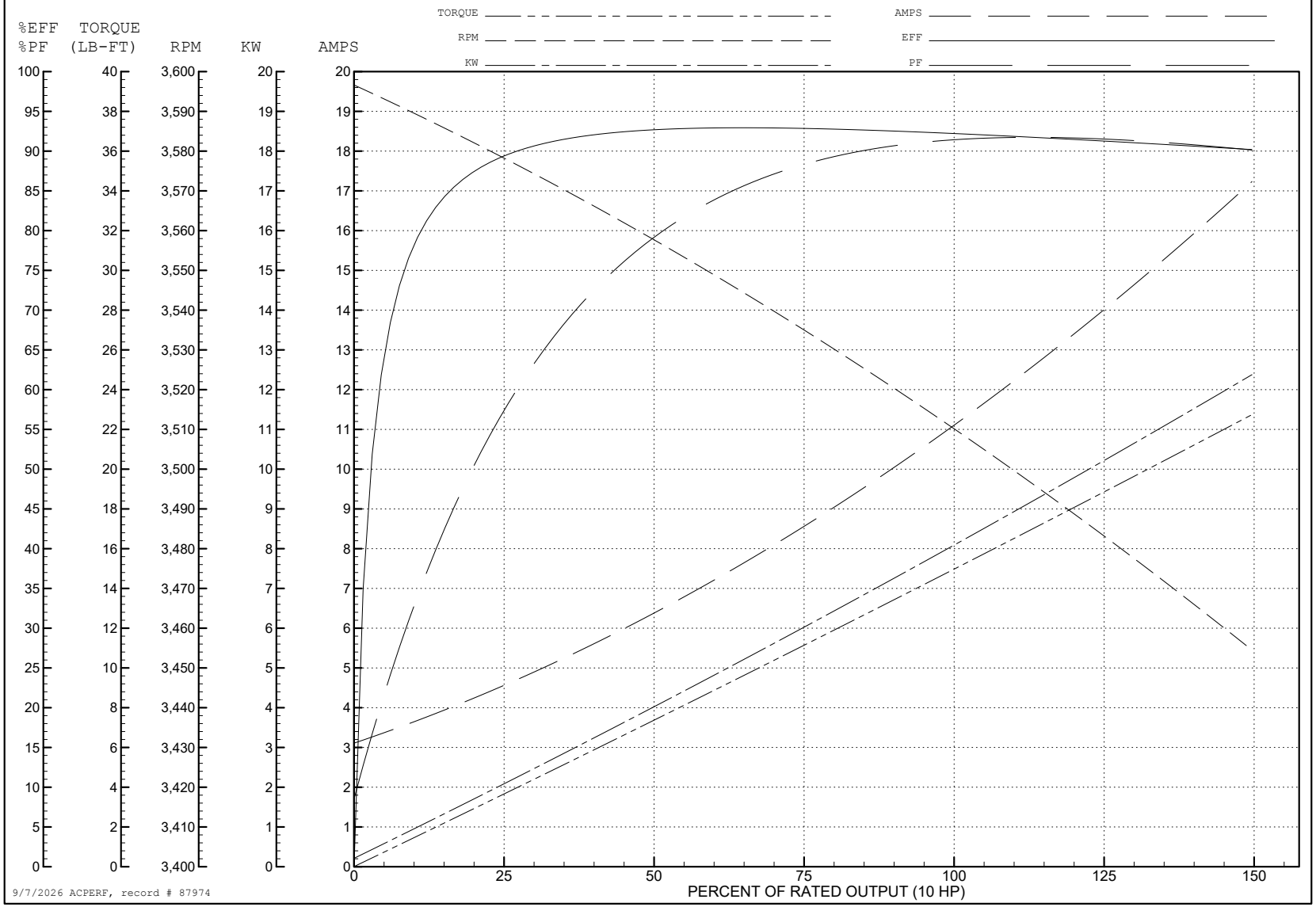
ABB Motors and Mechanical Inc.

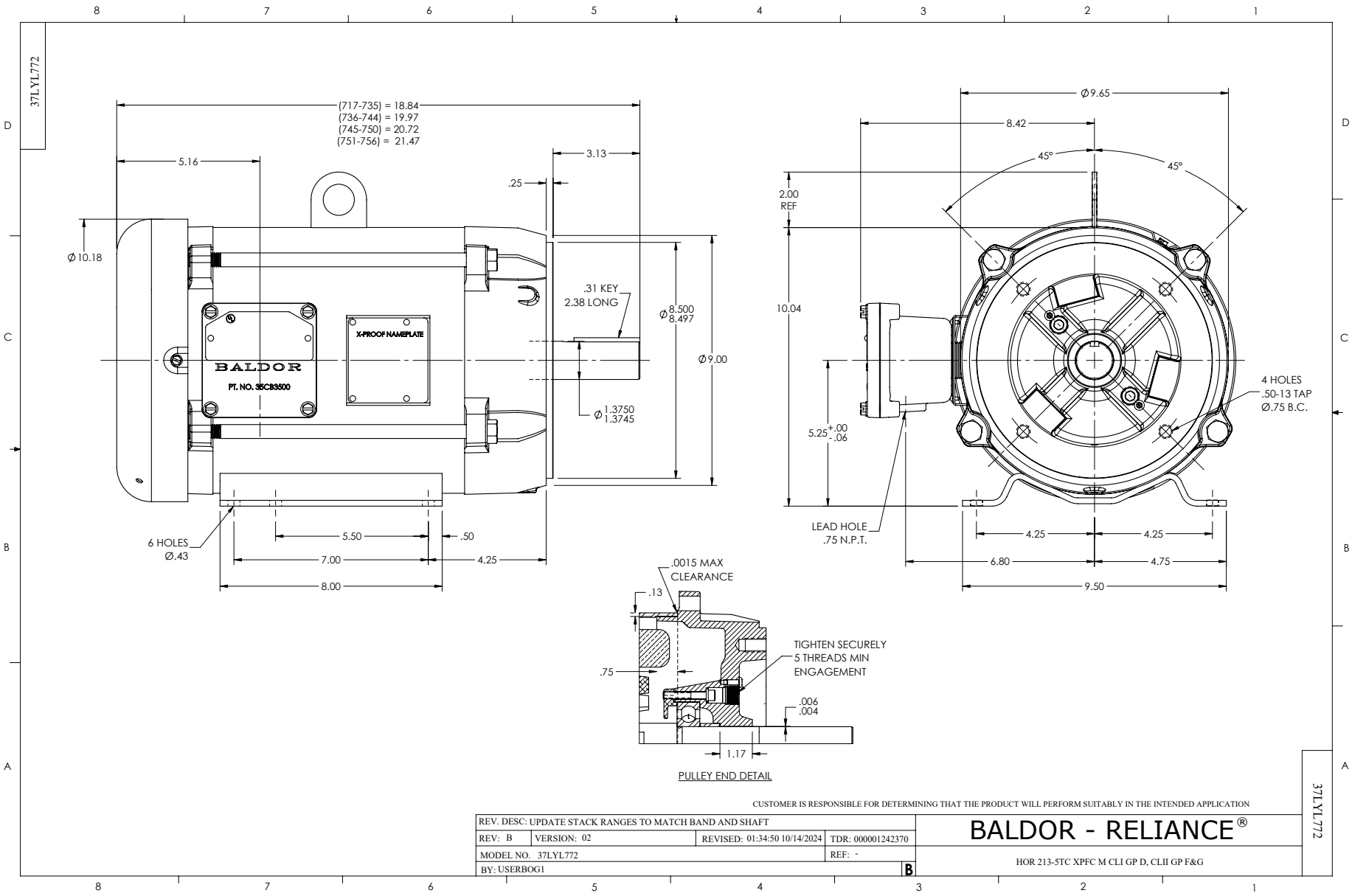
WINDING # 37WGS627

10 HP 3 PH 60 HZ 3510 RPM 460 V 3750M

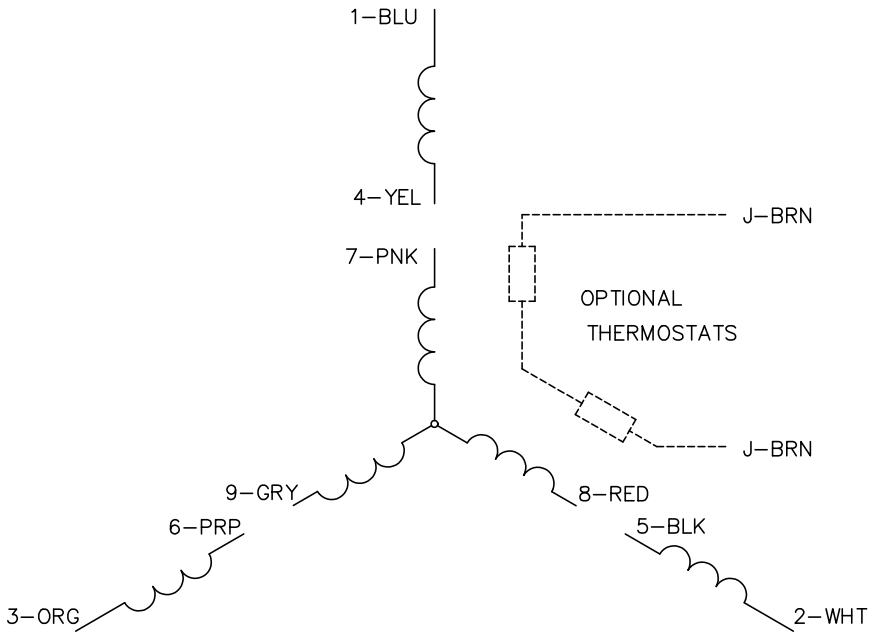
Typical performance - not guaranteed values.

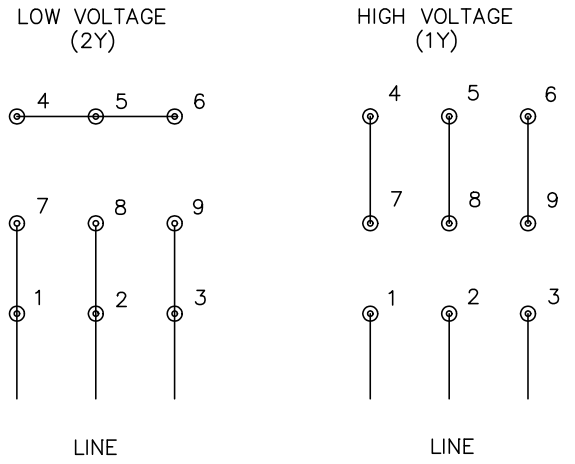
TORQUES(LB-FT): PO=54 PU=25.7 LR=29.9 LRA=87.3




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
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø1.3750
1.3745
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