ABB BALDOR RELIANCE

Customer information packet

JMXM21122T

10//7.5HP, 3500//2900RPM, 3PH, 60//50HZ, 213
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213JM
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	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	24.000 A @ 230.0 V
	22.800 A @ 190.0 V
	12.000 A @ 460.0 V
	11.400 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	37T528
Base	
Status	PRD/A
Elec. spec.	37WGR480
Layout	37LYT528
Eff. date	10-16-2023
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	03-08-2021

Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T2D
Heater Indicator	No Heater
High Voltage Full Load Amps	11.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3756M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.20 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2900 rpm
	3500 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**	T2D						
SPEC.	37T528R480G1			**INV.TYPE**	PWM						
CAT.NO.	JMXM21122T			**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	24/12//22.8/11.4			**MAG CUR**	9/4.5						
RPM	3500//2900			**MX RPM**	5400						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	90.2				
SER.F.	1.00	**DES**	A	**SL HZ**	1.7	**WK2**	0.51				
FRAME	213JM	**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 # 85492
Typical performance - not guaranteed values

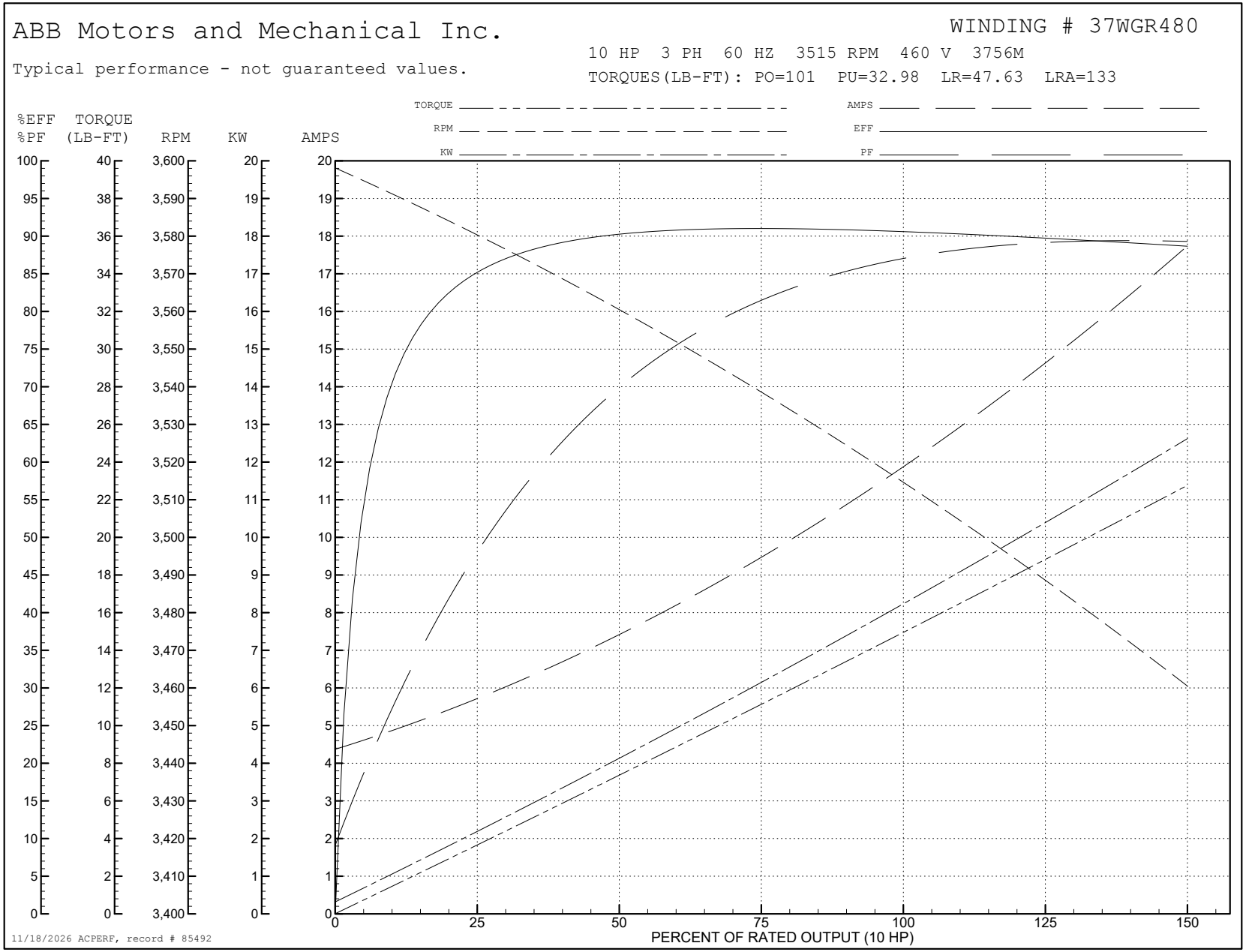
Winding: 37WGR480-R002	**Type:** 3756M	**Enclosure:** XPFC

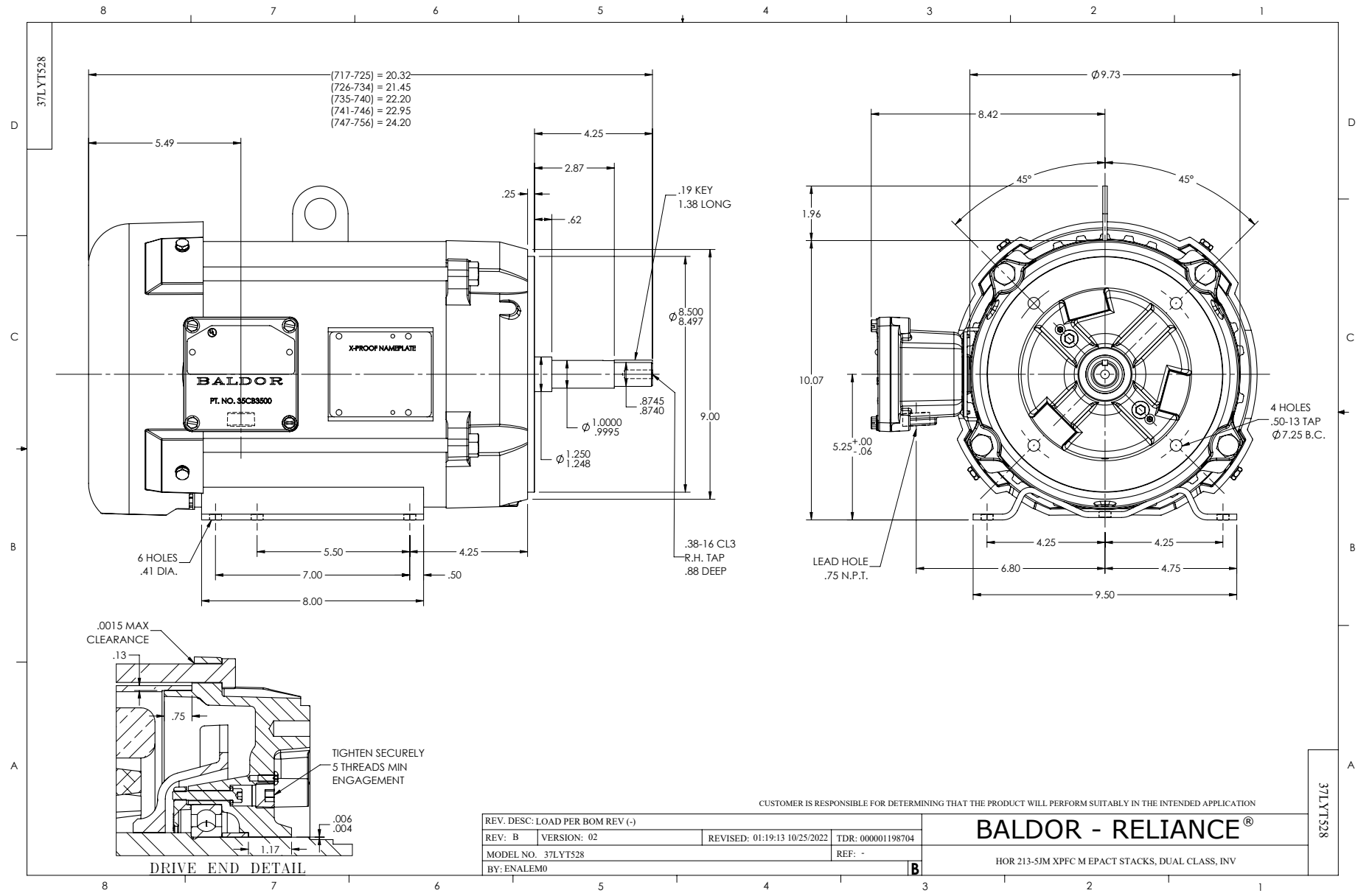
Nameplate Data			
Rated Output (HP)			10//7.5
Volts			230/460//190/380
Full Load Amps			24/12//22.8/11.4
R.P.M.			3500//2900
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	90.2	**Power Factor**	86
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15.01 LB-FT
Start Configuration	direct on line
Breakdown Torque	101 LB-FT
Pull-up Torque	32.98 LB-FT
Locked-rotor Torque	47.63 LB-FT
Starting Current	133 A
No-load Current	4.51 A
Line-line Res. @ 25ºC	0.455 Ω
Temp. Rise @ Rated Load	47°C
Locked-rotor Power Factor	29.4
Rotor inertia	0.51 lb-ft²

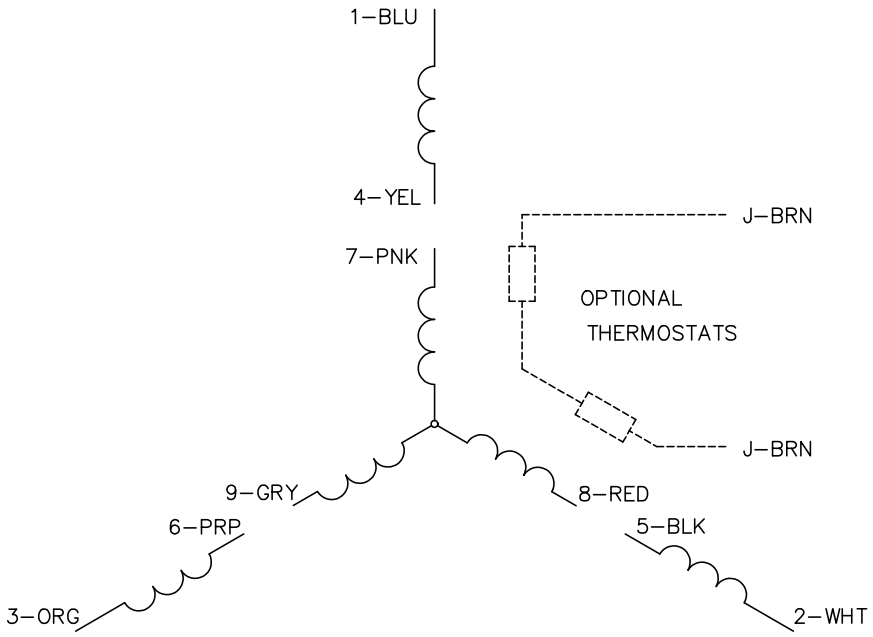
Load Characteristics 460 V, 60 Hz, 10 HP

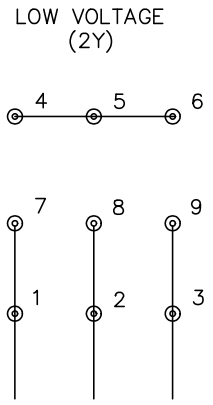
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	51	71	81	86	89	90
Efficiency	84	89.7	91.2	90.6	89.9	88.4
Speed	3579	3559	3538	3515	3488	3460
Line amperes	5.52	7.42	9.67	12.07	14.62	17.73

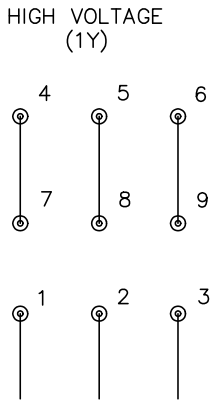

ABB Motors and Mechanical Inc.
WINDING # 37WGR480
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 3515 RPM 460 V 3756M
TORQUES(LB-FT): PO=101 PU=32.98 LR=47.63 LRA=133
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/18/2026 ACPERF, record # 85492


37LYT528
(717-725) = 20.32
(726-734) = 21.45
(735-740) = 22.20
(741-746) = 22.95
(747-756) = 24.20
5.49
4.25
2.87
.25
.62
.19 KEY
1.38 LONG
Ø 8.500
8.497
BALDOR
FT. NO. 35CB3500
X-PROOF NAMEPLATE
.8745
.8740
Ø 1.0000
.9995
Ø 1.250
1.248
9.00
6 HOLES
.41 DIA.
5.50
4.25
7.00
.50
8.00
.38-16 CL3
R.H. TAP
.88 DEEP
Ø9.73
8.42
45°
45°
1.96
10.07
5.25 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
4.25
4.25
LEAD HOLE
.75 N.P.T.
6.80
4.75
9.50
.0015 MAX
CLEARANCE
.13
.75
TIGHTEN SECURELY
5 THREADS MIN
ENGAGEMENT
.006
.004
1.17
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PER BOM REV (-)
REV: B
VERSION: 02
REVISED: 01:19:13 10/25/2022
TDR: 000001198704
MODEL NO. 37LYT528
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5JM XPFC M EPACT STACKS, DUAL CLASS, INV
37LYT528

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