ABB BALDOR RELIANCE

Customer information packet

JMXM21722T

7.5//5HP, 3520//2935RPM, 3PH, 60//50HZ, 213J
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	5.000 HP @ 50 HZ
	7.500 HP @ 60 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 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	9.000 A @ 460.0 V
	7.800 A @ 380.0 V
	19.000 A @ 208.0 V
	18.000 A @ 230.0 V
	15.600 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGL869
Layout	37LYT528
Eff. date	08-15-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	03-16-2021

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.45 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 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.	37-0000-0331			**INV.TYPE**	PWM						
CAT.NO.	JMXM21722T			**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	18/9//15.6/7.8		**MAG CUR**	7.4/3.7							
RPM	3520//2935		**MX RPM**	5400							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.5				
SER.F.	1.00	**DES**	A	**SL HZ**	1.7	**WK2**	0.255				
FRAME	213JM	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

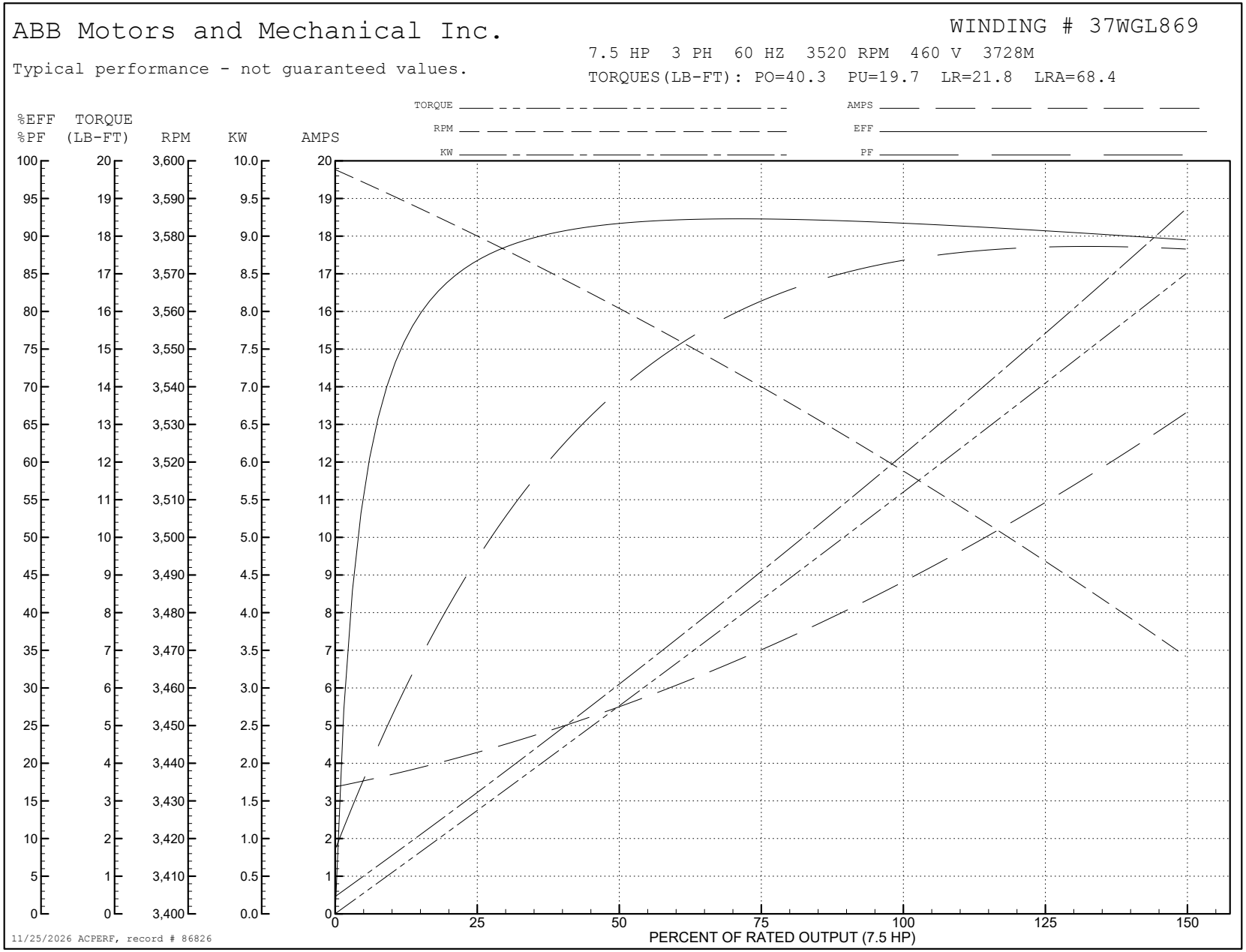
AC Induction Motor Performance Data
Record # 86826
Preliminary Data Sheet

Winding: 37WGL869-R008	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			18/9	**Breakdown Torque**	40.3 LB-FT
R.P.M.			3520	**Pull-up Torque**	19.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	68.4 A
Service Factor (S.F.)			1	**No-load Current**	3.52 A
NEMA Nom. Eff.	89.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	1.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
				Locked-rotor Power Factor	38.1
				Rotor inertia	0.255 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	49	71	81	86	88	89
Efficiency	83.9	89.7	91	90.9	90.2	89.2
Speed	3580	3560	3540	3518	3494	3468
Line amperes	4.1	5.4	7.06	8.96	11	13.2


ABB Motors and Mechanical Inc.
WINDING # 37WGL869
7.5 HP 3 PH 60 HZ 3520 RPM 460 V 3728M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=40.3 PU=19.7 LR=21.8 LRA=68.4
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/25/2026 ACPERF, record # 86826

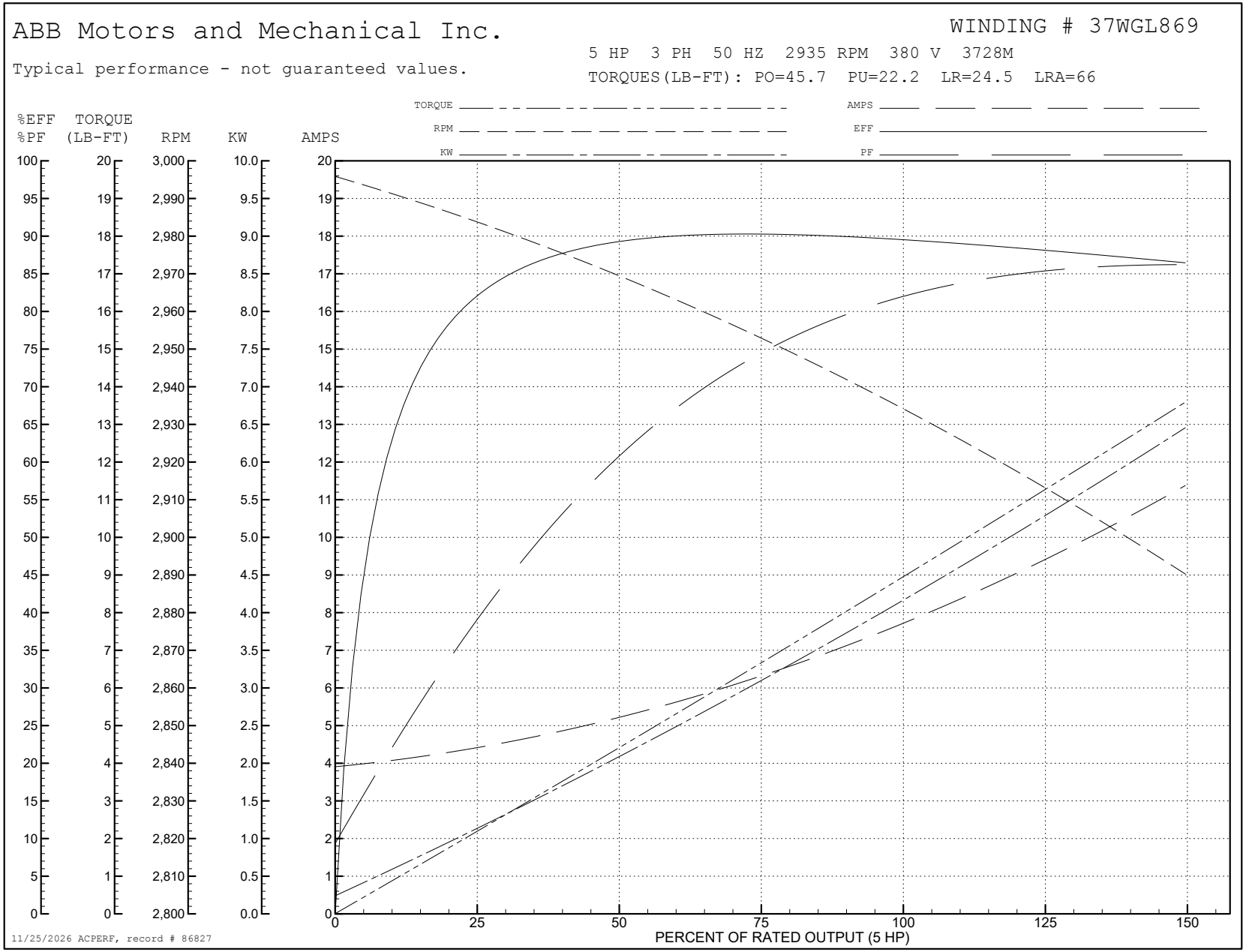
AC Induction Motor Performance Data
Record # 86827
Preliminary Data Sheet

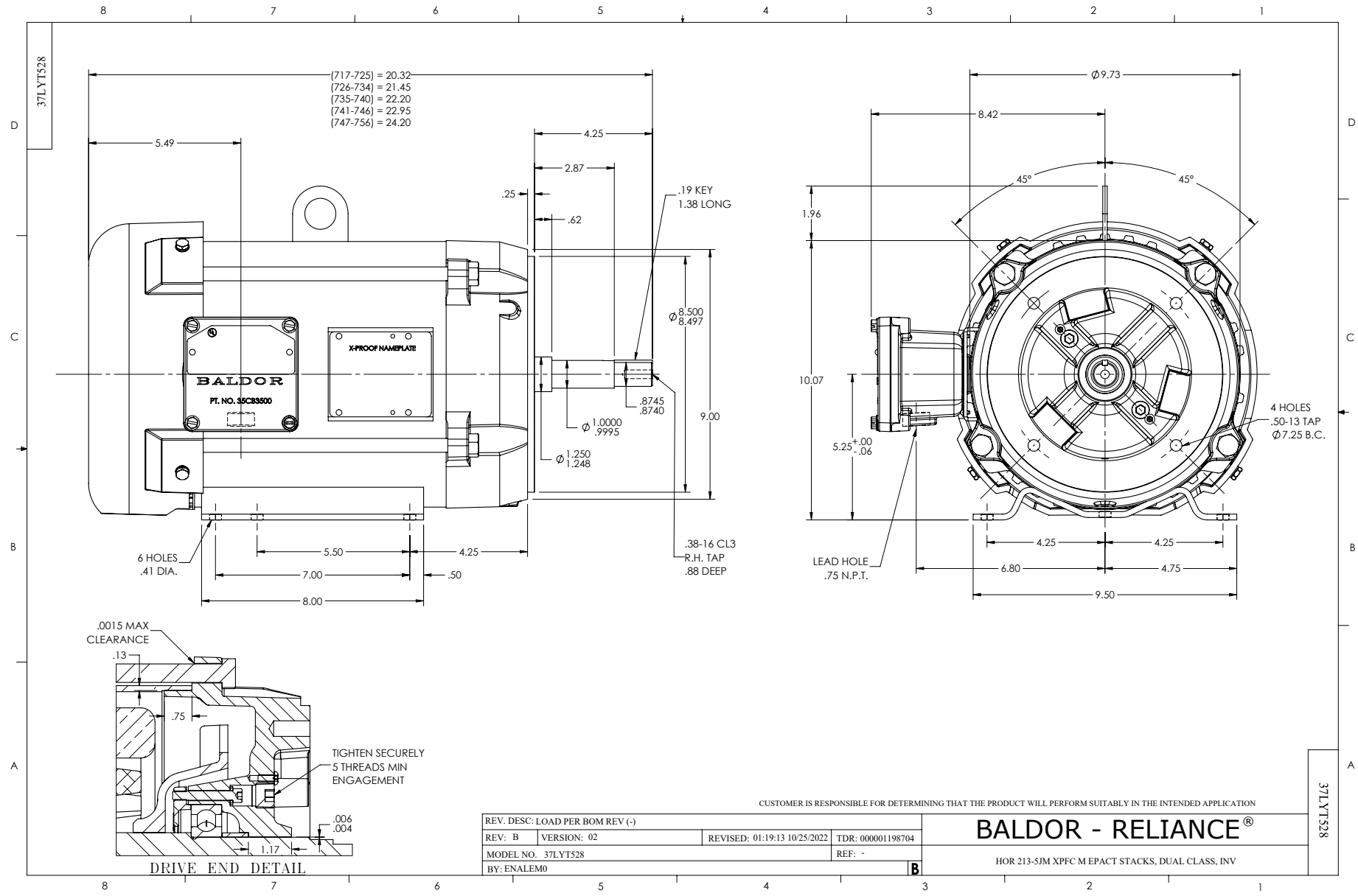
Winding: 37WGL869-R003	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	8.95 LB-FT
Volts			190/380	**Start Configuration**	direct on line
Full Load Amps			15.6/7.8	**Breakdown Torque**	45.7 LB-FT
R.P.M.			2935	**Pull-up Torque**	22.2 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	24.5 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	66 A
Service Factor (S.F.)			1	**No-load Current**	3.97 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
				Locked-rotor Power Factor	43.8
				Rotor inertia	0.255 lb-ft²

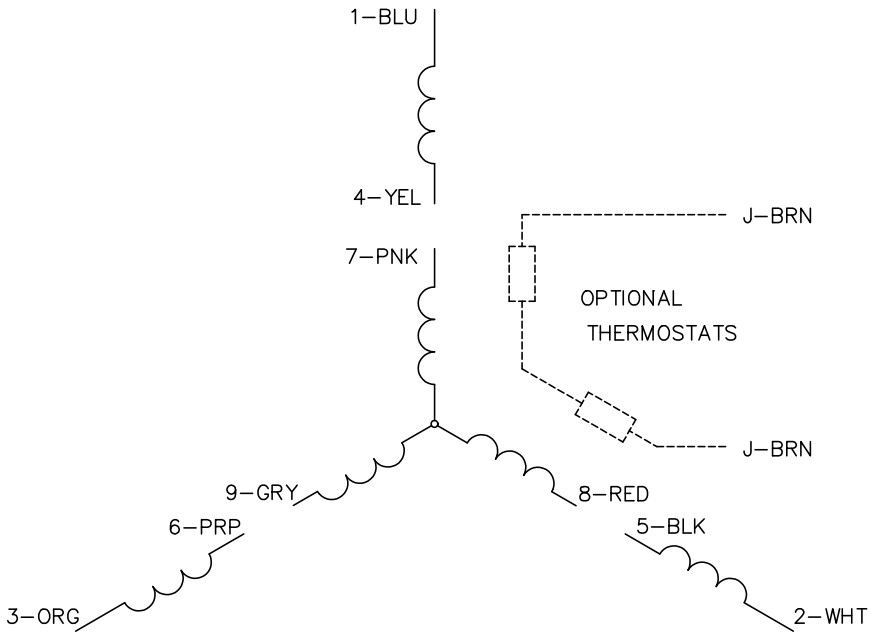
Load Characteristics 380 V, 50 Hz, 5 HP

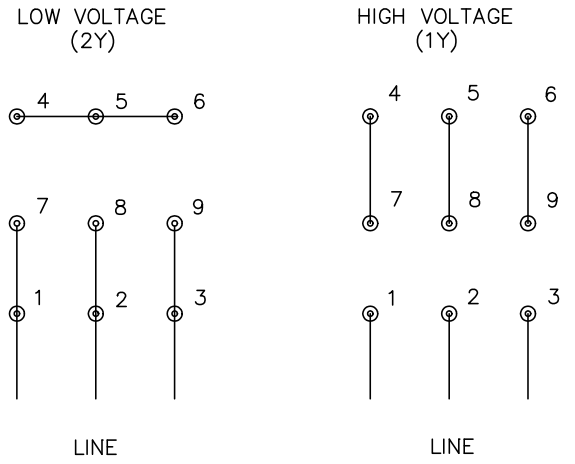
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	74	80	85	87
Efficiency	81.1	88	89.8	90.1	89.8	88.8
Speed	2984	2969	2952	2934	2915	2889
Line amperes	4.32	5.18	6.39	7.81	9.34	11.4


ABB Motors and Mechanical Inc.
WINDING # 37WGL869
5 HP 3 PH 50 HZ 2935 RPM 380 V 3728M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=45.7 PU=22.2 LR=24.5 LRA=66
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/25/2026 ACPERF, record # 86827


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
Ø8.500
8.497
9.00
.8745
.8740
Ø1.0000
.9995
Ø1.250
1.248
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
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.
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
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