ABB BALDOR RELIANCE

Customer information packet

CBM7027T

3HP, 1725RPM, 3PH, 60HZ, 215TC, BRAKE, X3726M
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	TENV
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Brake Torque	15.0 lb-ft
Current @ Voltage	4.300 A @ 460.0 V
	8.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None
Haz Area Temp Code	T2C

Part Detail

Revision	AL
Type	AC
Mech. spec.	37L057
Base	
Status	NLA/A
Elec. spec.	37WGW898
Layout	37LYL057
Eff. date	05-24-2016
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	4.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3726M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.29 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP0015XPSL						
NO.		**CC**				
SPEC	37L57W898-B					
CAT.NO.	CBM7027T					
T. CODE	T2C					
VOLTS	230/460					
AMPS	8.6/4.3					
HZ	60	**PH**	3			
SER.F.	1.00	**DES**	B	**CODE**	K	
RATING	40C AMB-CONT					
FRAME	215TC					
PF	77					
BLANK						

AC Induction Motor Performance Data
Record # 11938
Typical performance - not guaranteed values

Winding: 37WGW898-R001	**Type:** 3726M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.6/4.3	**Breakdown Torque**	35 LB-FT
R.P.M.			1725	**Pull-up Torque**	14 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	24 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	33 A
Service Factor (S.F.)			1	**No-load Current**	2.6 A
NEMA Nom. Eff.	84	**Power Factor**	77	**Line-line Res. @ 25ºC**	4.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.545 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	36	56	69	77	82	85
Efficiency	71.7	81.3	84.2	84.9	84.6	83.6
Speed	1786	1774	1760	1746	1731	1714
Line amperes	2.7	3.1	3.6	4.3	5.1	5.9

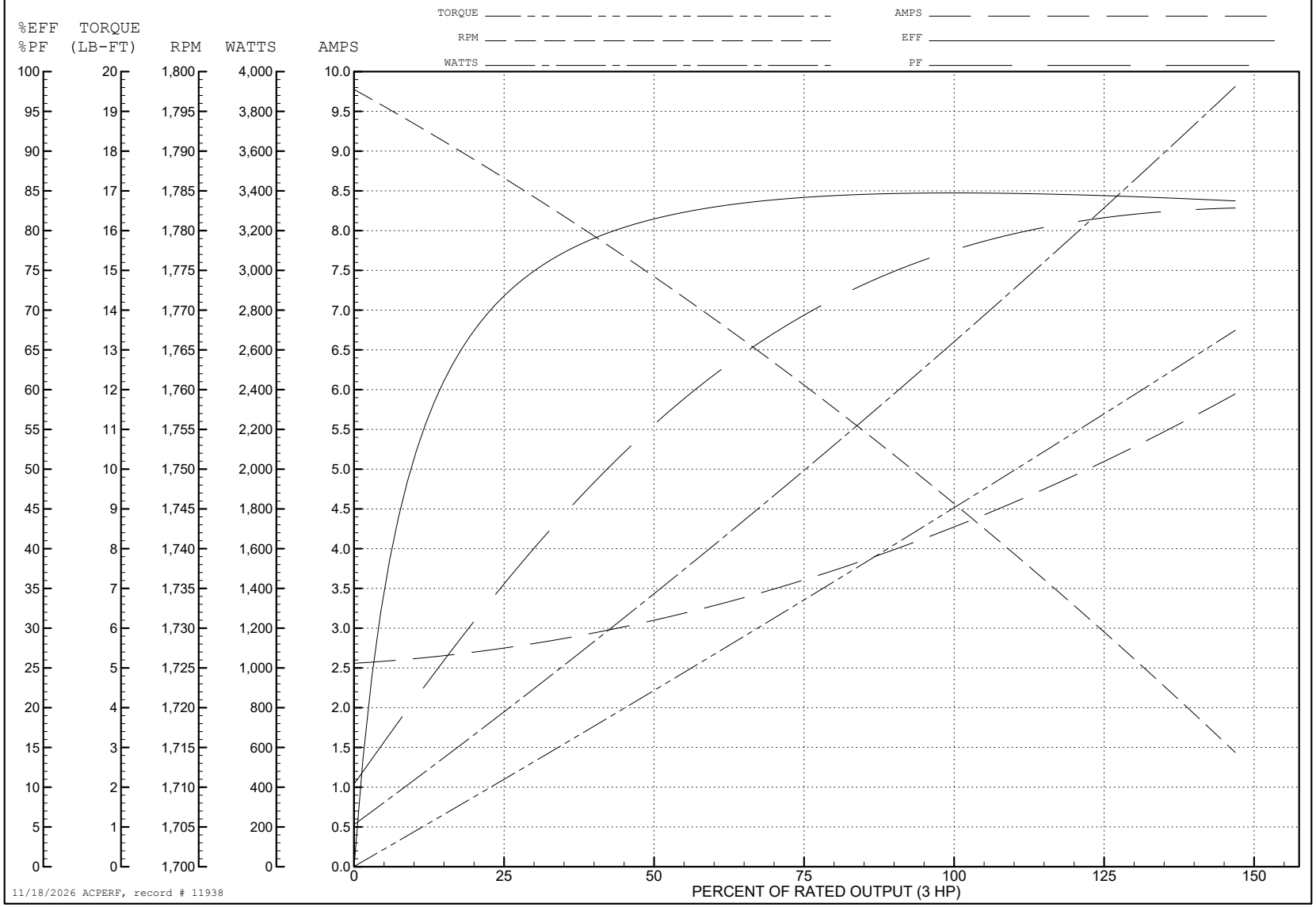
ABB Motors and Mechanical Inc.

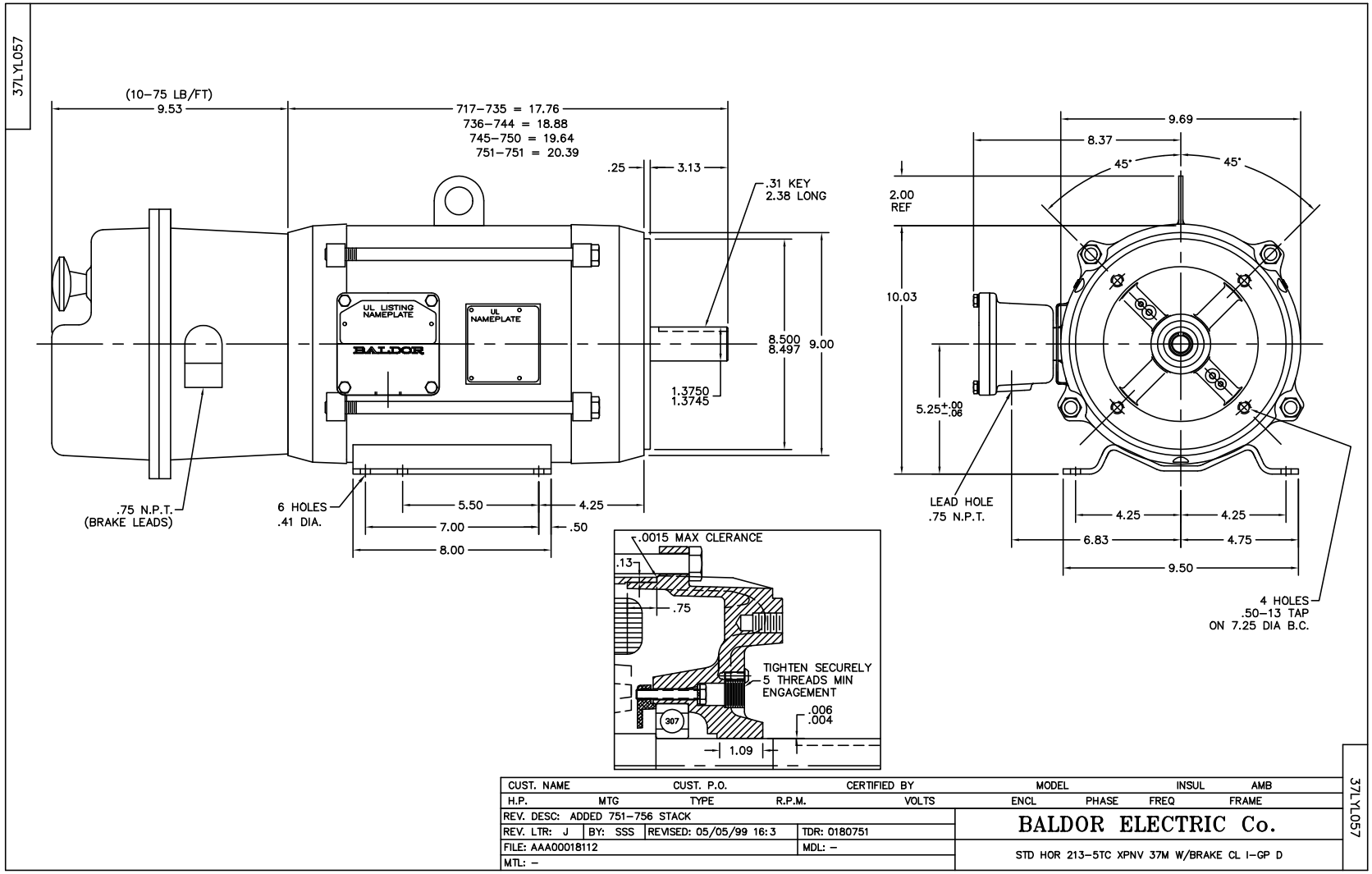
WINDING # 37WGW898

3 HP 3 PH 60 HZ 1725 RPM 460 V 3726M

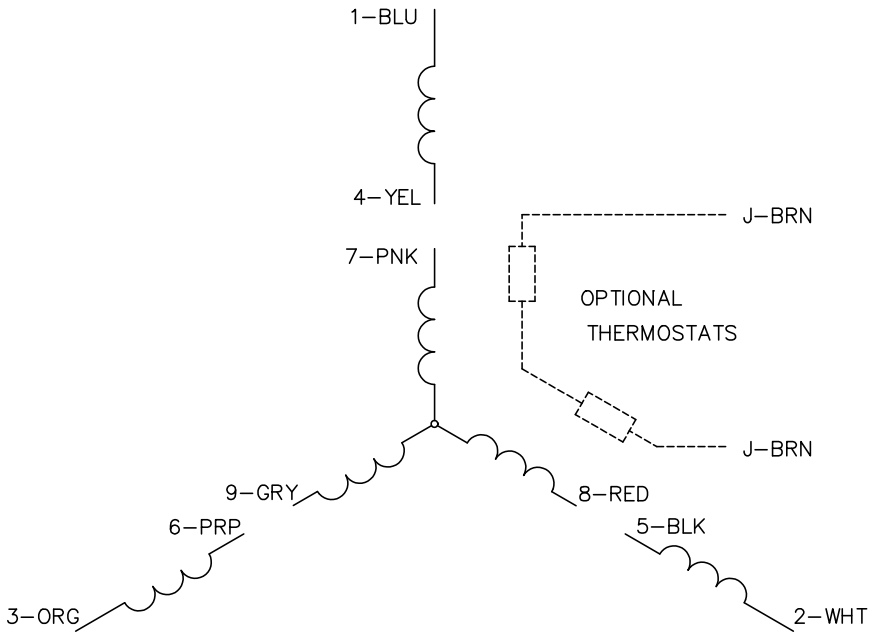
Typical performance - not guaranteed values.

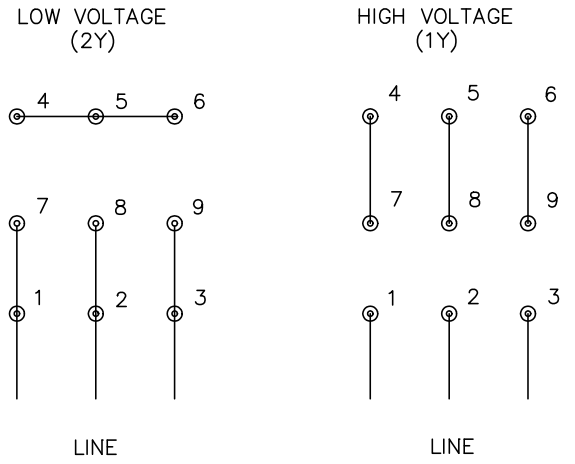
TORQUES(LB-FT): PO=35 PU=14 LR=24 LRA=33




37LYL057
(10–75 LB/FT)
9.53
717–735 = 17.76
736–744 = 18.88
745–750 = 19.64
751–751 = 20.39
.25
3.13
.31 KEY
2.38 LONG
UL LISTING NAMEPLATE
UL NAMEPLATE
BALDOR
8.500
8.497
9.00
1.3750
1.3745
.75 N.P.T.
(BRAKE LEADS)
6 HOLES
.41 DIA.
5.50
4.25
7.00
.50
8.00
9.69
8.37
45°
45°
2.00
REF
10.03
5.25 +.00 −.06
LEAD HOLE
.75 N.P.T.
4.25
4.25
6.83
4.75
9.50
4 HOLES
.50–13 TAP
ON 7.25 DIA B.C.
.0015 MAX CLEARANCE
.13
.75
TIGHTEN SECURELY
5 THREADS MIN
ENGAGEMENT
.006
.004
307
1.09
CUST. NAME
CUST. P.O.
CERTIFIED BY
MODEL
INSUL
AMB
H.P.
MTG
TYPE
R.P.M.
VOLTS
ENCL
PHASE
FREQ
FRAME
REV. DESC: ADDED 751–756 STACK
REV. LTR: J
BY: SSS
REVISED: 05/05/99 16:3
TDR: 0180751
FILE: AAA00018112
MDL: –
MTL: –
BALDOR ELECTRIC Co.
STD HOR 213–5TC XPNV 37M W/BRAKE CL I–GP D
37LYL057

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