ABB BALDOR RELIANCE

Customer information packet

CEM3309T

5HP, 1160RPM, 3PH, 60HZ, 215TC, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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
Current @ Voltage	14.800 A @ 230.0 V
	7.400 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS521
Layout	37LYB102
Eff. date	01-02-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	02-24-2020

IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.19 IN
Power Factor	71
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	1160 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1259L										
CAT.NO.	CEM3309T									
SPEC.	37-0000-0220									
HP	5									
VOLTS	230/460									
AMP	14.8/7.4									
RPM	1160									
FRAME	215TC	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F			
NEMA-NOM-EFF	89.5	**PF**	71							
RATING	40C AMB-CONT									
CC	010A									
DE	6307	**ODE**	6206							
ENCL	OPSB	**SN**								

AC Induction Motor Performance Data
Record # 53393
Typical performance - not guaranteed values

Winding: 37WGS521-R008	**Type:** 3744M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	22.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14.8/7.4	**Breakdown Torque**	77.9 LB-FT
R.P.M.			1160	**Pull-up Torque**	47.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	54.8 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	53 A
Service Factor (S.F.)			1.15	**No-load Current**	3.84 A
NEMA Nom. Eff.	89.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	1.7514 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	23
				Rotor inertia	1.09 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	65	71	74	76	73
Efficiency	84.5	89.4	90.1	89.5	88.3	86.5	88.8
Speed	1191.9	1183.8	1173.7	1164.6	1153.5	1139.2	1158
Line amperes	4.14	4.95	6.08	7.36	8.92	10.7	8.3

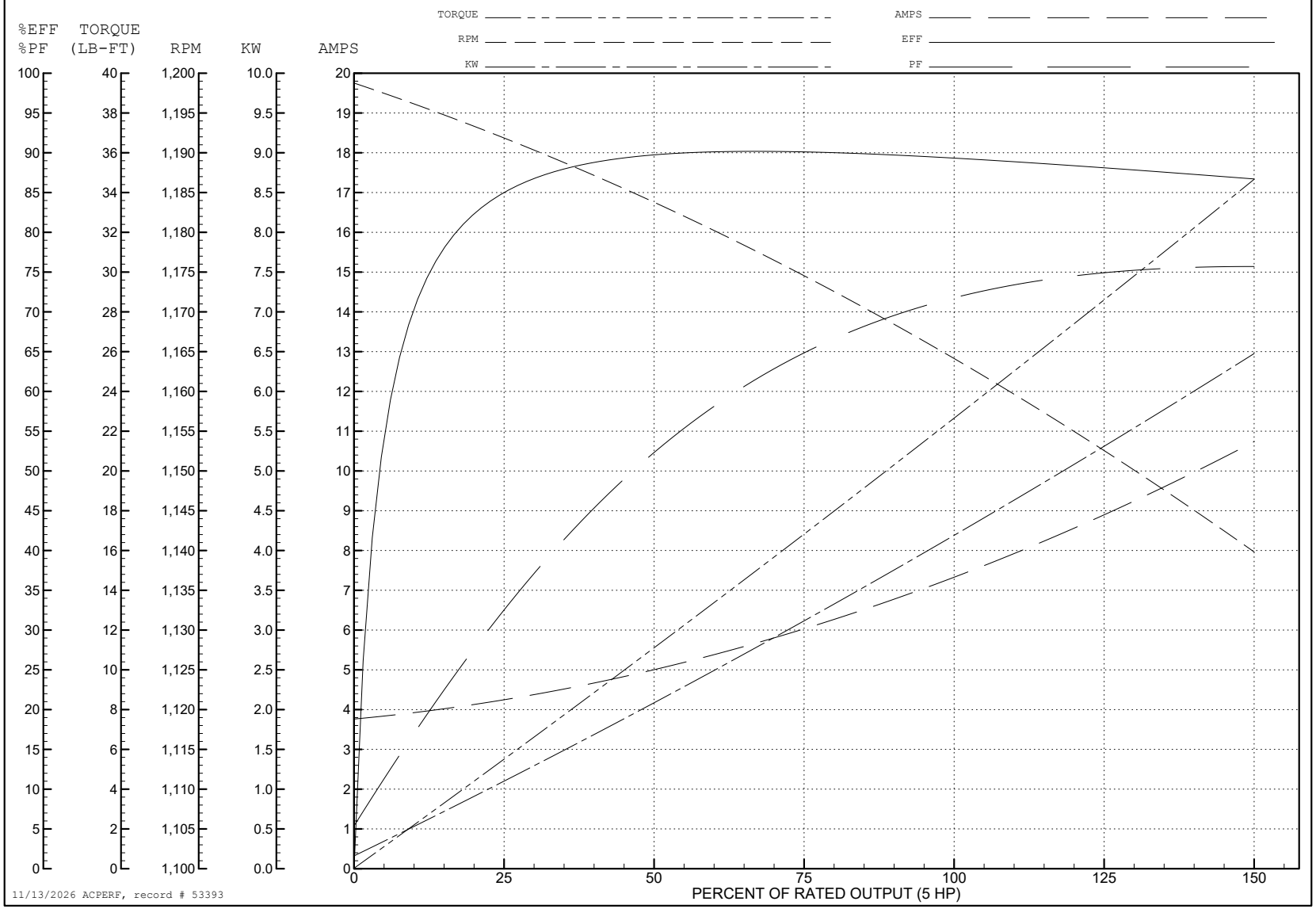
ABB Motors and Mechanical Inc.

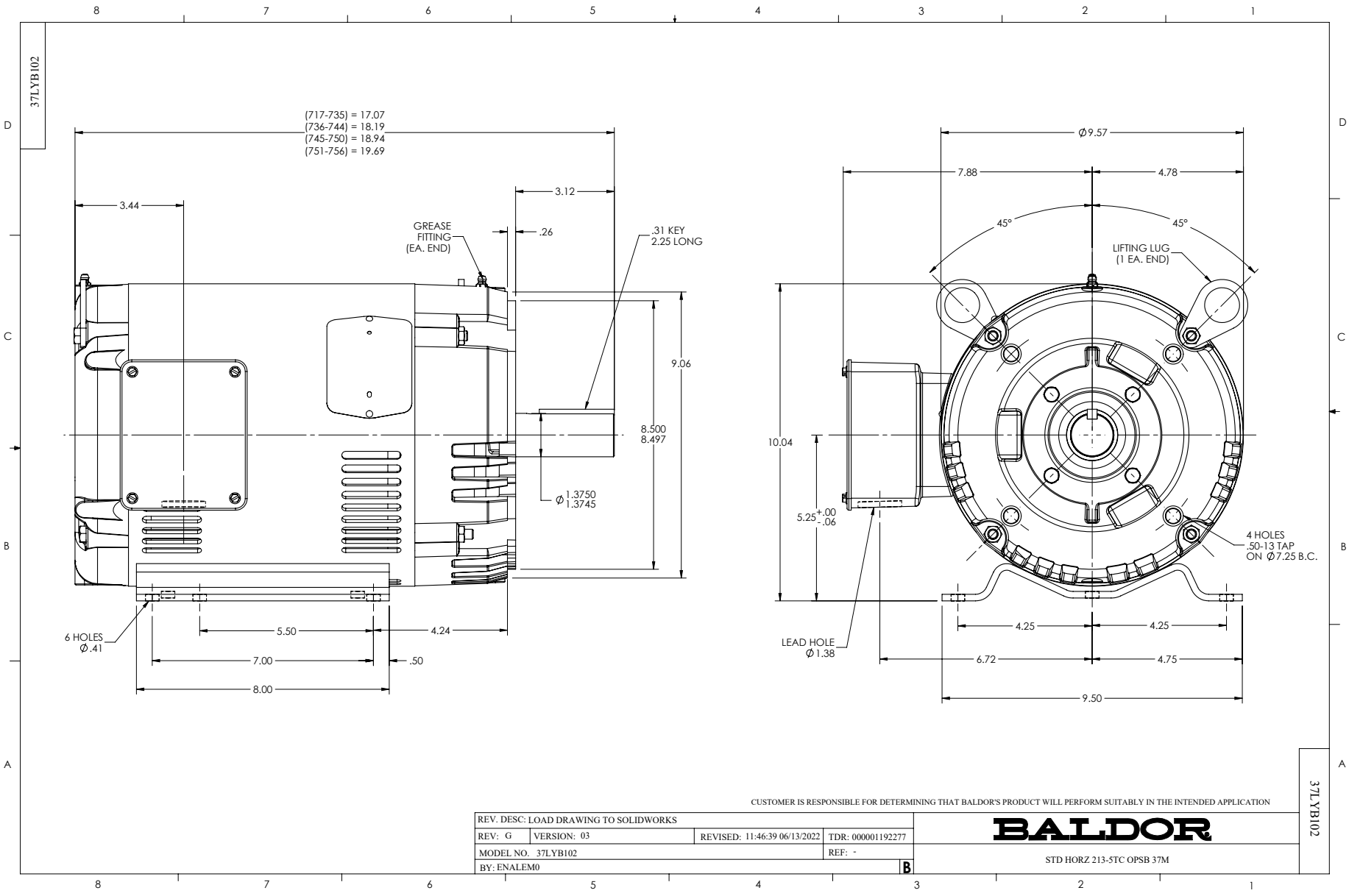
WINDING # 37WGS521

5 HP 3 PH 60 HZ 1160 RPM 460 V 3744M

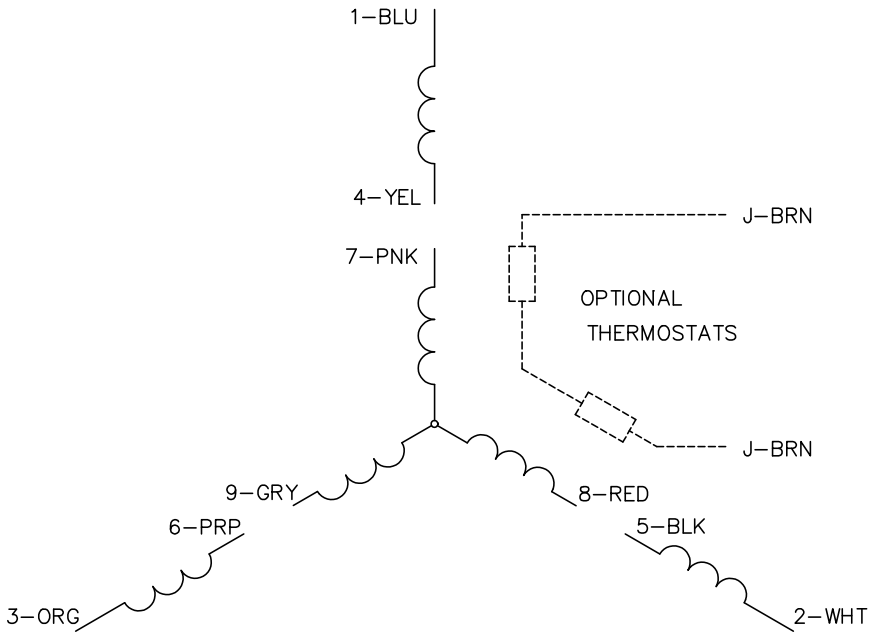
Typical performance - not guaranteed values.

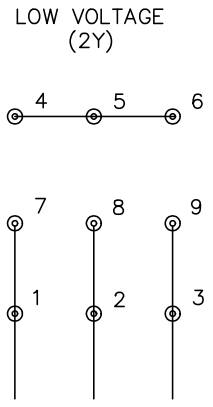
TORQUES(LB-FT): PO=77.9 PU=47.4 LR=54.8 LRA=53

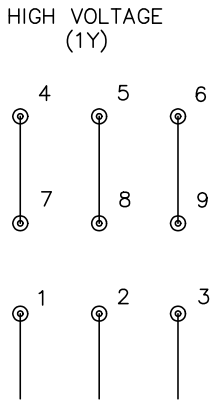



37LYB102
(717-735) = 17.07
(736-744) = 18.19
(745-750) = 18.94
(751-756) = 19.69
3.44
3.12
.26
GREASE FITTING (EA. END)
.31 KEY 2.25 LONG
9.06
8.500
8.497
Ø1.3750
Ø1.3745
6 HOLES Ø.41
5.50
4.24
7.00
.50
8.00
Ø9.57
7.88
4.78
45°
45°
LIFTING LUG (1 EA. END)
10.04
5.25 +.00 -.06
4 HOLES .50-13 TAP ON Ø7.25 B.C.
LEAD HOLE Ø1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: G
VERSION: 03
REVISED: 11:46:39 06/13/2022
TDR: 000001192277
MODEL NO. 37LYB102
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ 213-5TC OPSB 37M
37LYB102

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