ABB BALDOR RELIANCE

Customer information packet

CEM3218T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3636M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	184TC
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	1800 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	14.000 A @ 208.0 V
	14.000 A @ 230.0 V
	7.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a

Part Detail

Revision	-
Type	AC
Mech. spec.	36B102
Base	
Status	PRD/A
Elec. spec.	36WGZ657
Layout	36LYB102
Eff. date	11-14-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	11-05-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.49 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP3553LUA									
CAT.NO.	CEM3218T								
SPEC.	36B102Z657								
HP	5								
VOLTS	230/460								
AMPS	14/7								
RPM	1750								
FRAME	184TC	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	F		
NEMA NOM. EFF	89.5	**PF**	80						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SN**							
DE	6206	**ODE**	6205						
VPWM INVERTER READY	SFA 15.0/7.5								
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 5HP 190/380V 15.6/7.8A								SF1.0

AC Induction Motor Performance Data
Record # 115738
Typical performance - not guaranteed values

Winding: 36WGZ657-R001	**Type:** 3636M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	14.97 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14/7	**Breakdown Torque**	58.2 LB-FT
R.P.M.			1750	**Pull-up Torque**	27 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	47.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.47 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.6406 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	42.5
				Rotor inertia	0.335 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	70	77	81	83	79
Efficiency	84.7	89.8	90.7	90.3	89.3	87.9	89.7
Speed	1789	1778.9	1767.9	1755.9	1742.6	1728.3	1748
Line amperes	3.79	4.51	5.52	6.73	8.12	9.65	7.56

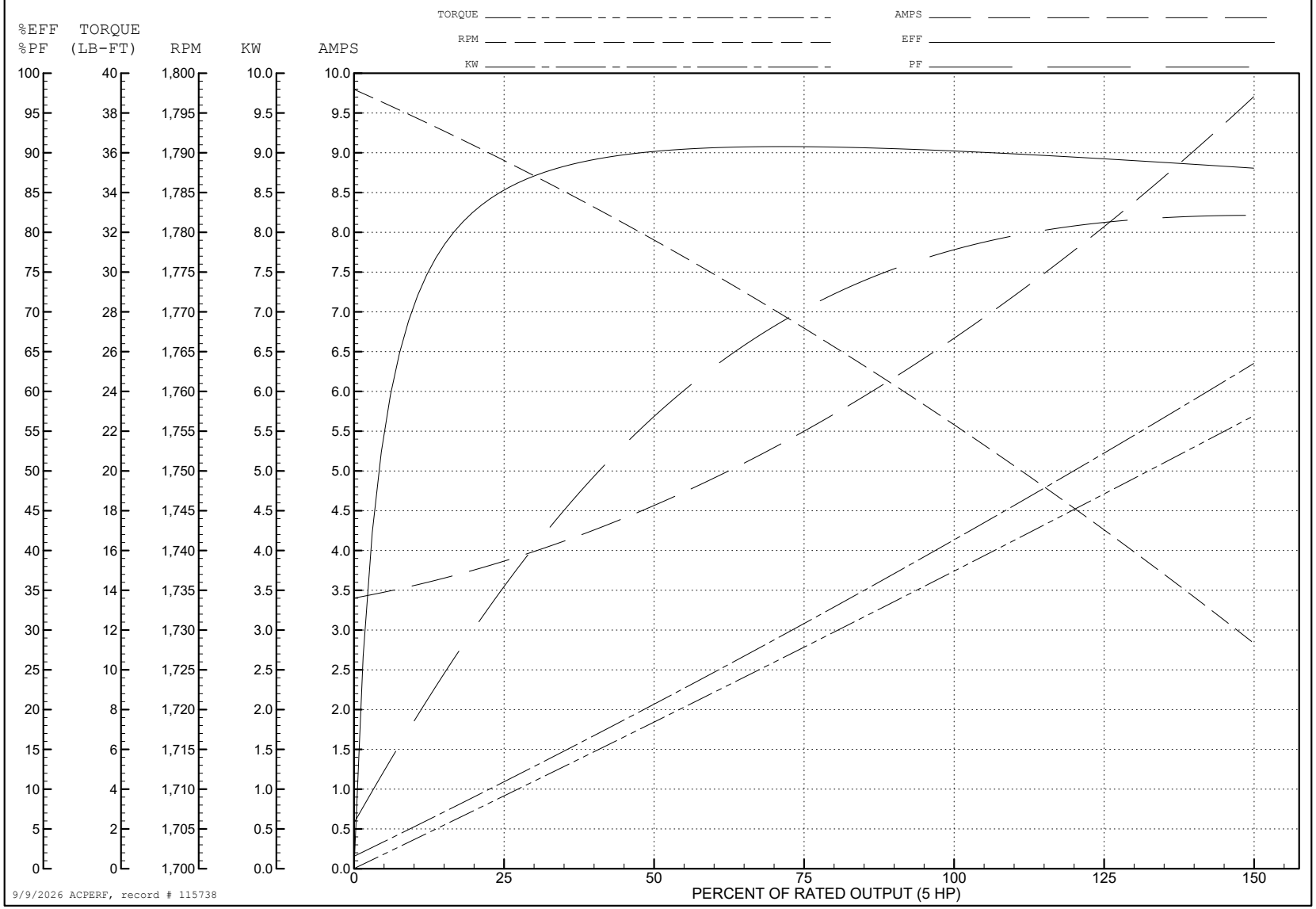
ABB Motors and Mechanical Inc.

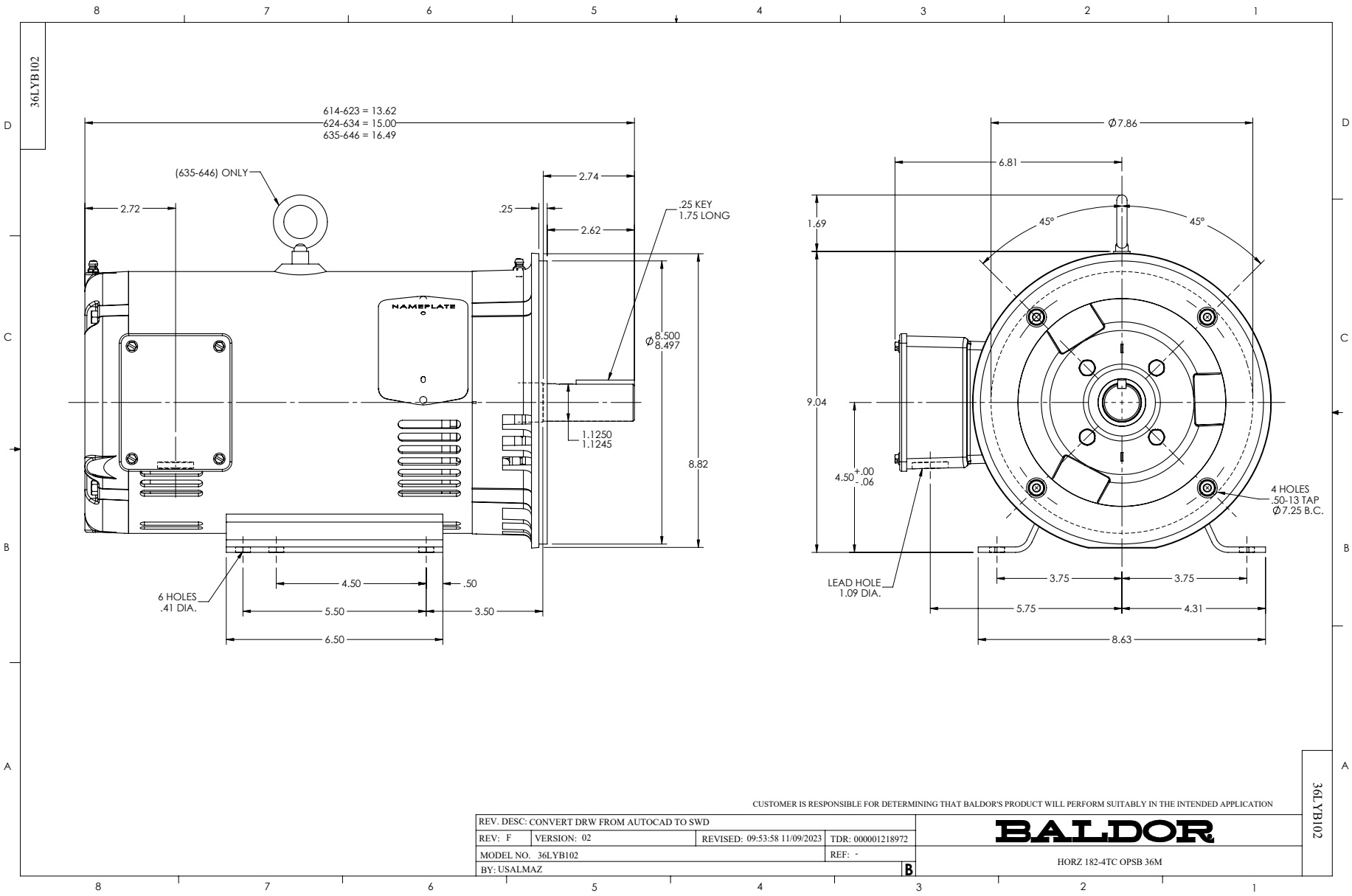
WINDING # 36WGZ657

5 HP 3 PH 60 HZ 1750 RPM 460 V 3636M

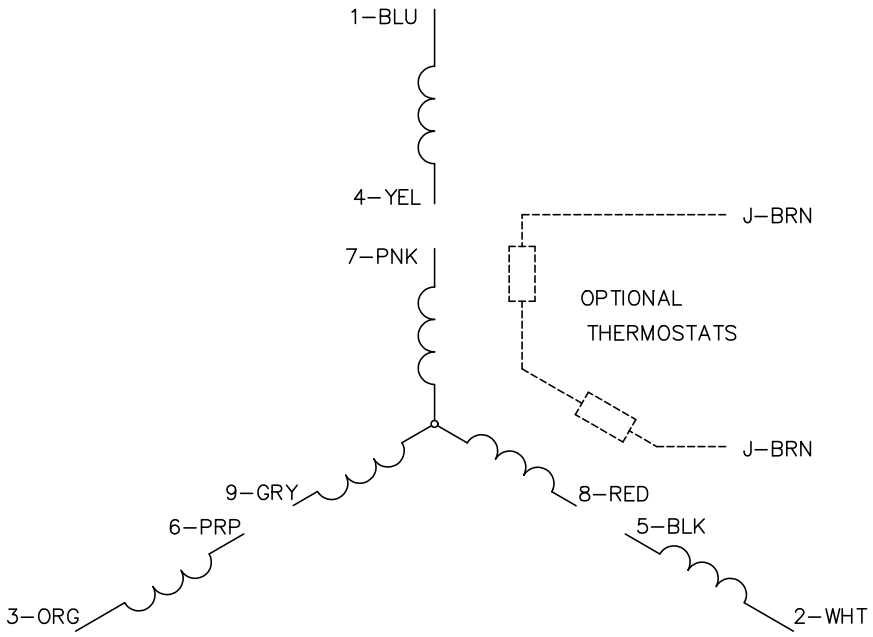
Typical performance - not guaranteed values.

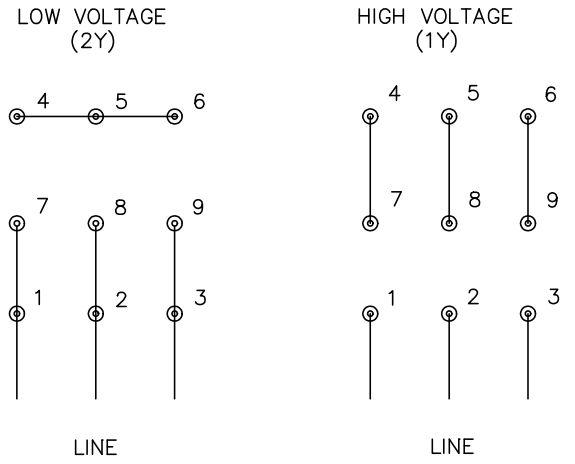
TORQUES(LB-FT): PO=58.2 PU=27 LR=32.1 LRA=47.8




36LYB102
614-623 = 13.62
624-634 = 15.00
635-646 = 16.49
(635-646) ONLY
2.72
2.74
.25
2.62
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.500
8.497
1.1250
1.1245
8.82
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
Ø7.86
6.81
1.69
45°
45°
9.04
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
1.09 DIA.
3.75
3.75
5.75
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: F
VERSION: 02
REVISED: 09:53:58 11/09/2023
TDR: 000001218972
MODEL NO. 36LYB102
REF: -
BY: USALMAZ
B
BALDOR
HORZ 182-4TC OPSB 36M
36LYB102

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