ABB BALDOR RELIANCE

Customer information packet

CEM3212T-G

5HP, 3450RPM, 3PH, 60HZ, 182TC, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	182TC
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	6.000 A @ 460.0 V
	12.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LY-000-161
Eff. date	01-02-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	09-29-2020

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP3553L											
CAT.NO.	CEM3212T-G										
SPEC	36-0000-0425										
HP	5										
VOLTS	230/460										
AMPS	12/6										
RPM	3450										
FRAME	182TC	**HZ**	60				**PH**	3			
SF	1.15	**CODE**	K	**DES**	A	**CLASS**	H				
NEMA NOM. EFF	86.5	**PF**	91								
RATING	40C AMB-CONT										
CC	010A										
ENCL	OPSB	**SER**									
DE	6206	**ODE**	6205								
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

AC Induction Motor Performance Data
Record # 53355
Typical performance - not guaranteed values

Winding: 36WGS040-R015	**Type:** 3622M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.66 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			12/6	**Breakdown Torque**	29.99 LB-FT
R.P.M.			3450	**Pull-up Torque**	17.89 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.24 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	49.63 A
Service Factor (S.F.)			1.15	**No-load Current**	1.99 A
NEMA Nom. Eff.	86.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	3.07 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	49.2
				Rotor inertia	0.0988 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	79	87	90	92	93	92
Efficiency	81.4	86.5	87.6	86.6	85.3	83.5	86.1
Speed	3566	3535	3503	3465	3423	3379	3445
Line amperes	2.5	3.49	4.68	6.06	7.56	9.15	6.91

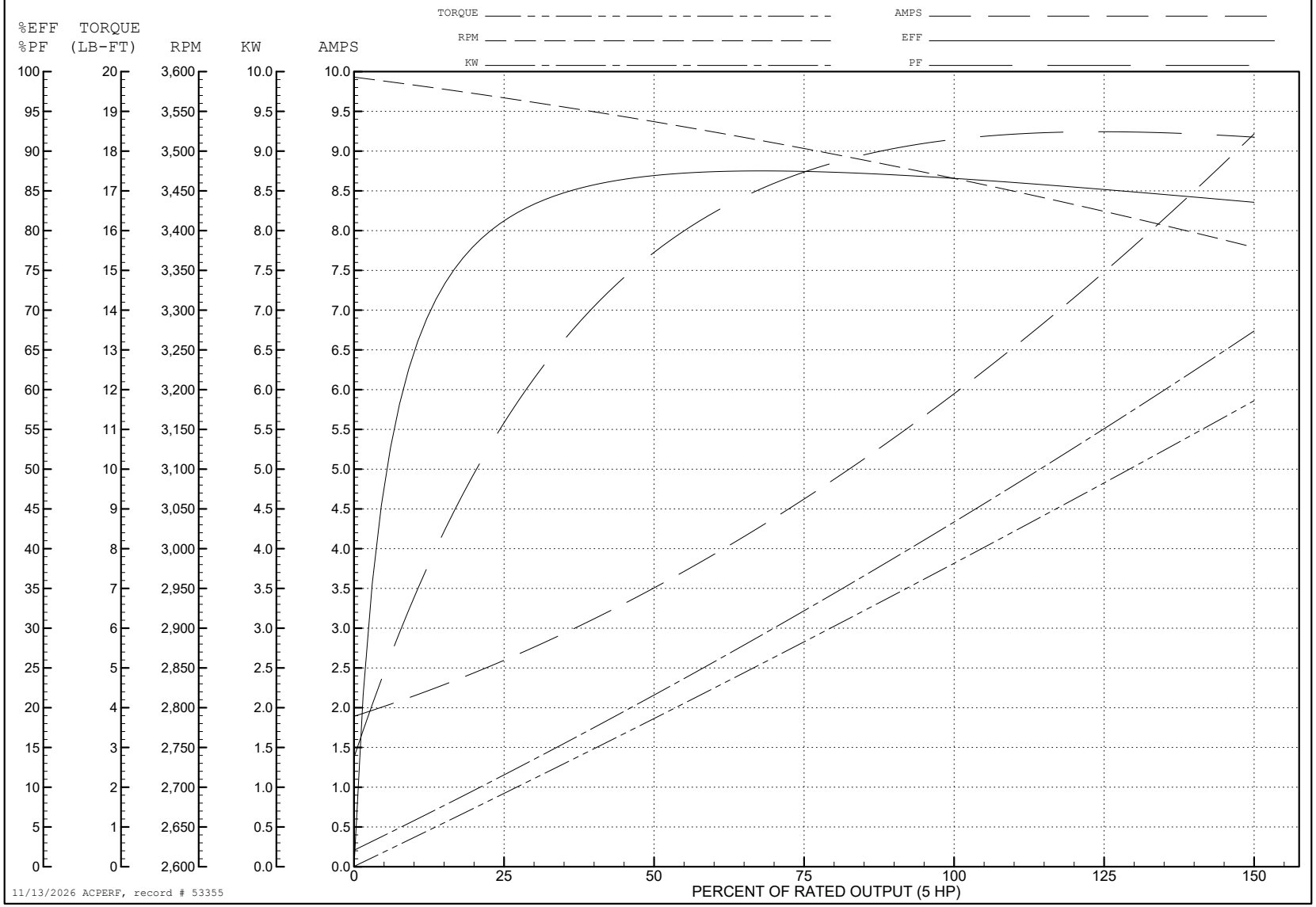
ABB Motors and Mechanical Inc.

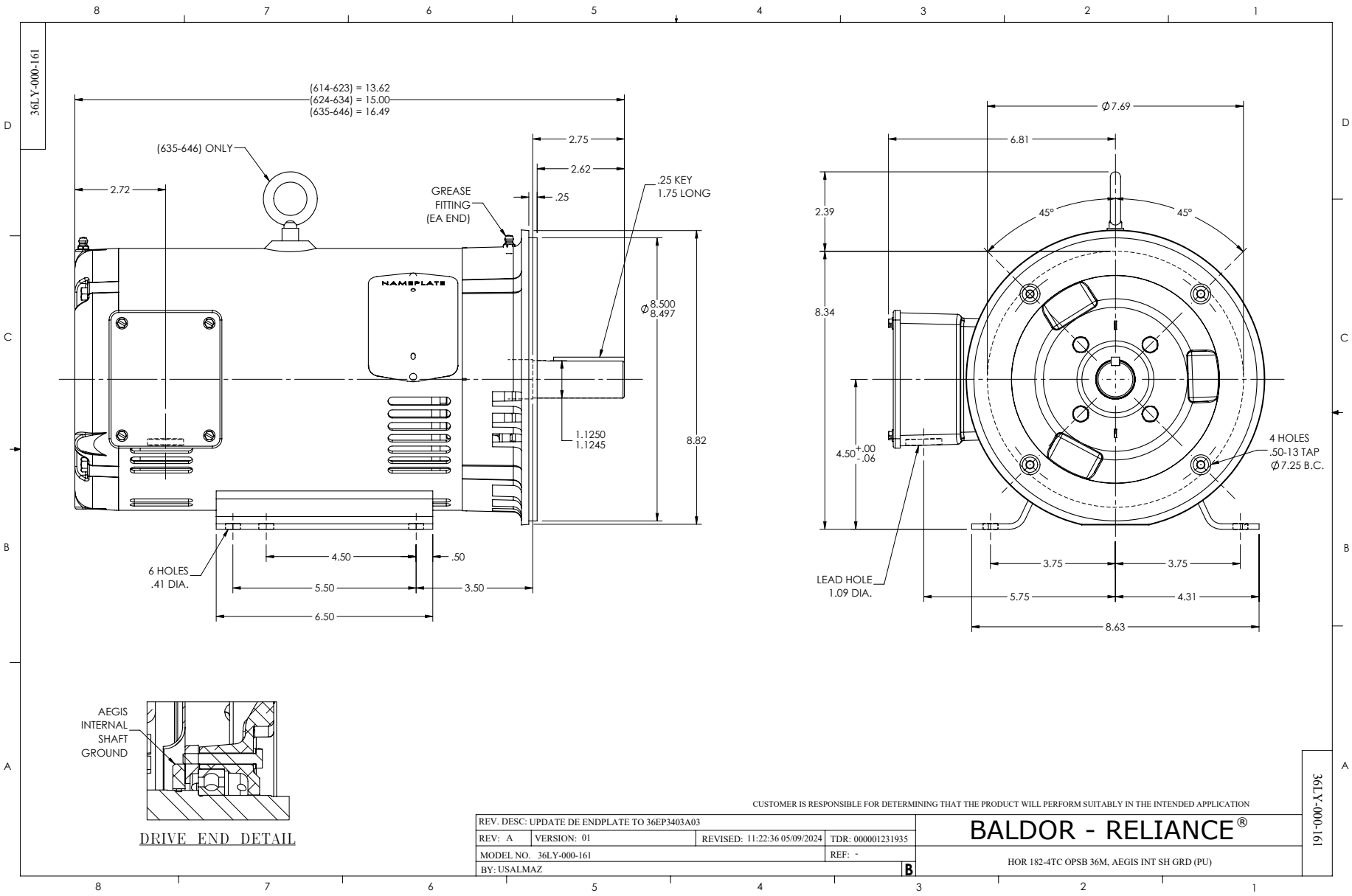
WINDING # 36WGS040

5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

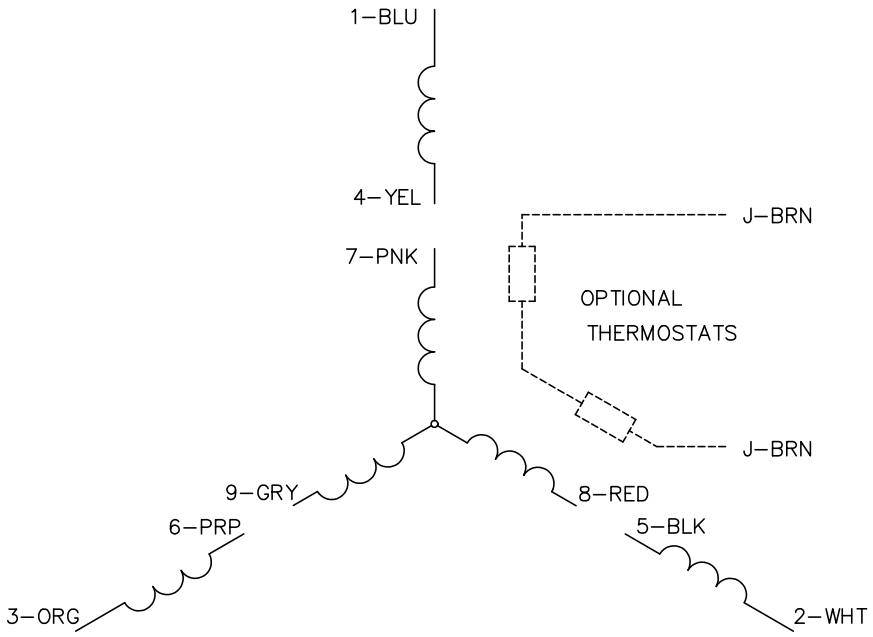
Typical performance - not guaranteed values.

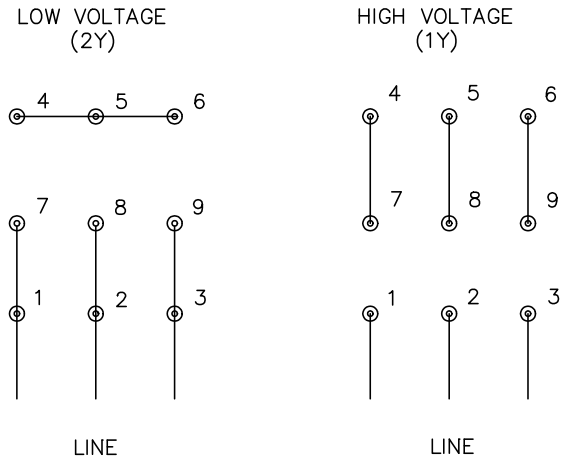
TORQUES(LB-FT): PO=29.99 PU=17.89 LR=22.24 LRA=49.63




36LY-000-161
(614-623) = 13.62
(624-634) = 15.00
(635-646) = 16.49
(635-646) ONLY
2.72
2.75
2.62
.25
GREASE FITTING (EA END)
.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
Ø7.69
6.81
2.39
45°
45°
8.34
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
AEGIS INTERNAL SHAFT GROUND
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DE ENDPLATE TO 36EP3403A03
REV: A
VERSION: 01
REVISED: 11:22:36 05/09/2024
TDR: 000001231935
MODEL NO. 36LY-000-161
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR 182-4TC OPSB 36M, AEGIS INT SH GRD (PU)
36LY-000-161

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