ABB BALDOR RELIANCE

Customer information packet

CEM3218T-G

5HP, 1750RPM, 3PH, 60HZ, 184TC, 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	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	6.600 A @ 460.0 V
	13.200 A @ 230.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS270
Layout	36LY-000-161
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-30-2020

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	80
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	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

NP3553L											
CAT.NO.	CEM3218T-G										
SPEC	36-0000-0348										
HP	5										
VOLTS	230/460										
AMPS	13.2/6.6										
RPM	1750										
FRAME	184TC	**HZ**	60				**PH**	3			
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	H				
NEMA NOM. EFF	89.5	**PF**	80								
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 # 36908
Typical performance - not guaranteed values

Winding: 36WGS270-R002	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	44.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.97 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.62 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	82
Efficiency	84.4	89.3	89.8	89.4	88.3	86.2	88.7
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47

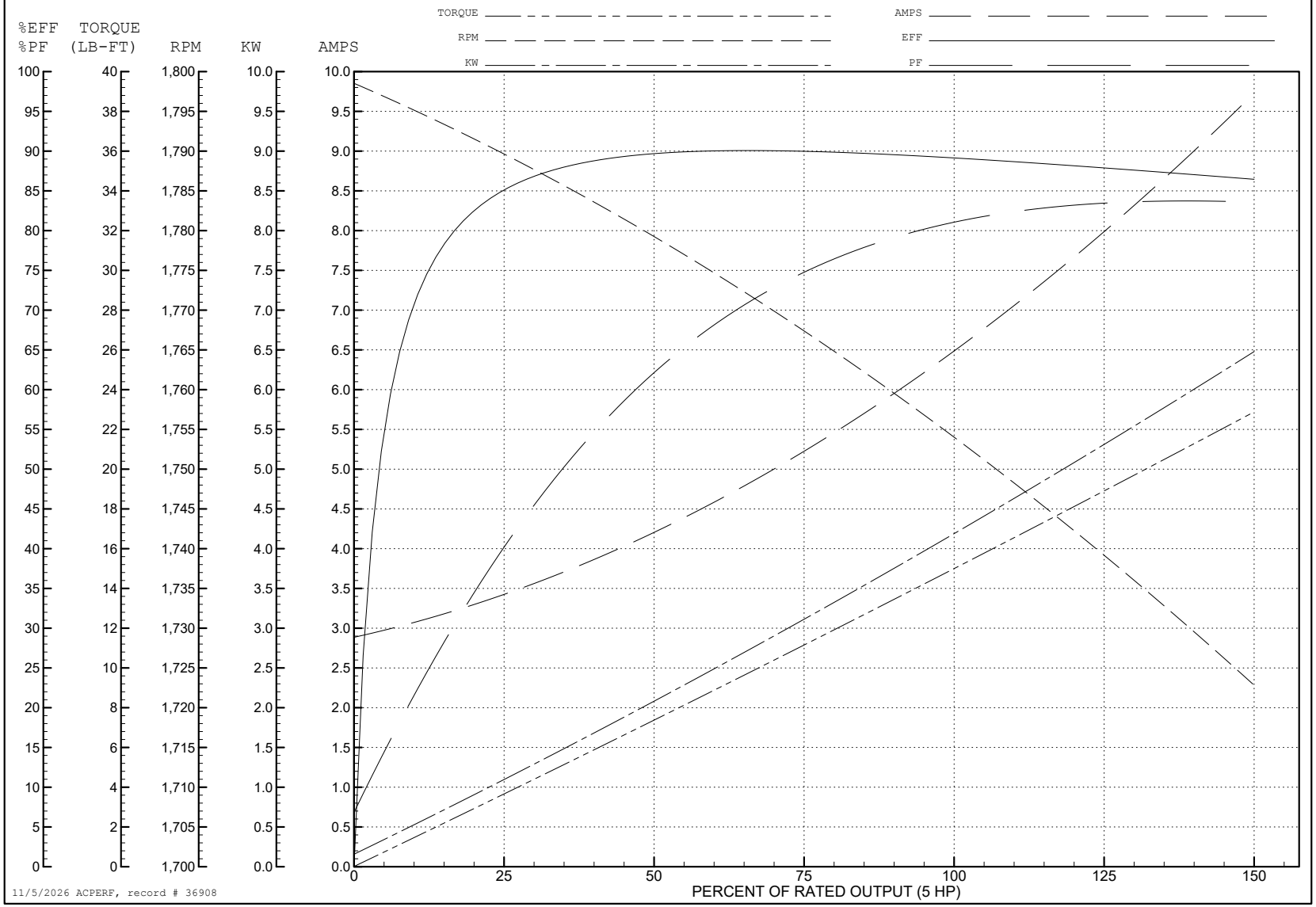
ABB Motors and Mechanical Inc.

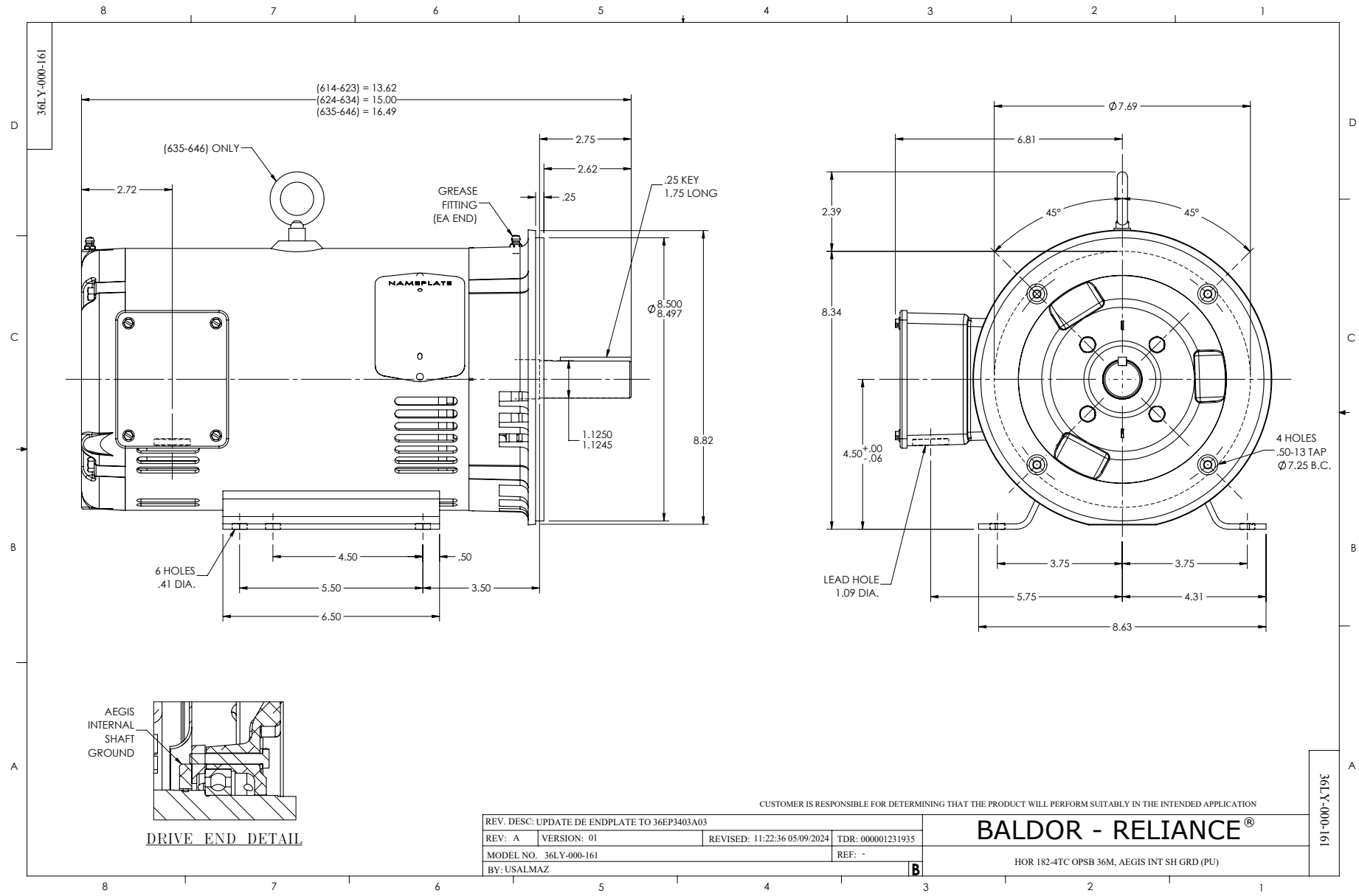
WINDING # 36WGS270

5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

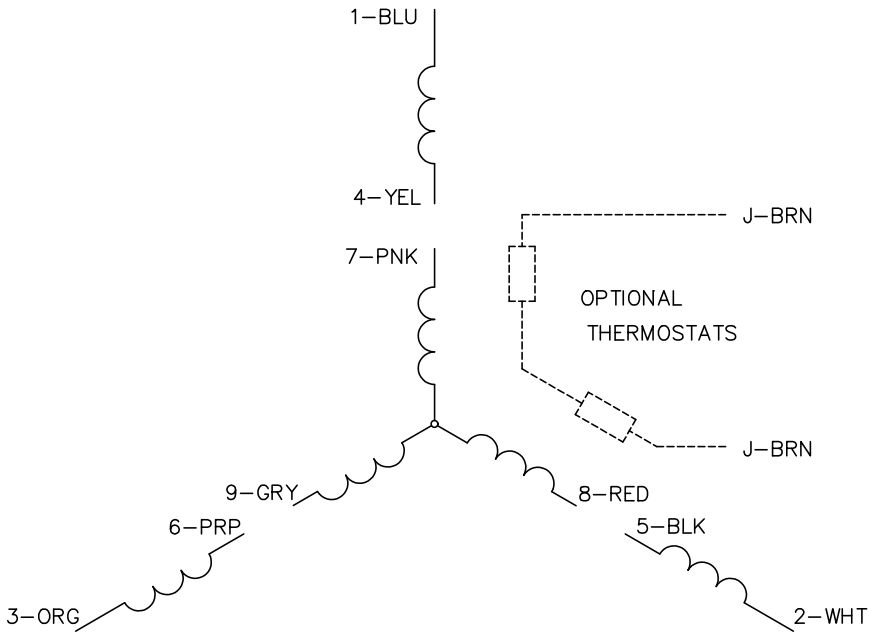
Typical performance - not guaranteed values.

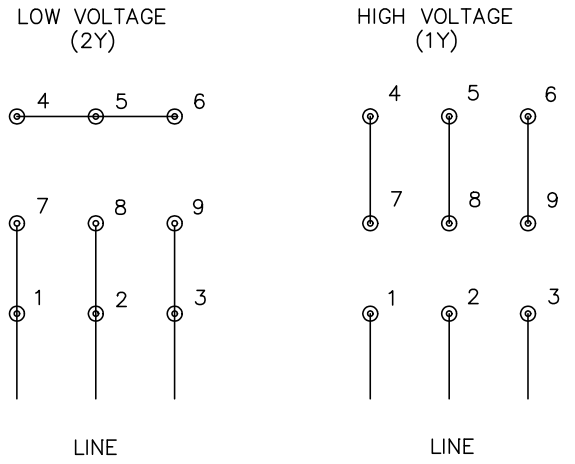
TORQUES(LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=44.8




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