BALDOR • RELIANCE

Customer information packet

CEM3219T-G

7.5HP, 3450RPM, 3PH, 60HZ, 184TC, OPSB, F1
Class - None
Division - Not Applicable

12/22/2025 4:42:24 PM

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	7.500 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	8.600 A @ 460.0 V
	17.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 a

Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS516
Layout	36LY-000-161
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	09-21-2020

Insulation Class	H
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.00 IN
Power Factor	89
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.	CEM3219T-G								
SPEC	36-0000-358								
HP	7.5								
VOLTS	230/460								
AMPS	17.2/8.6								
RPM	3450								
FRAME	184TC	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	L	**DES**	A	**CLASS**	H		
NEMA NOM. EFF	88.5	**PF**	89						
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 # 36910
Typical performance - not guaranteed values

Winding: 36WGS516-R004	**Type:** 3632M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			18-17.2/8.6	**Breakdown Torque**	55.2 LB-FT
R.P.M.			3450	**Pull-up Torque**	37 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	42.6 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	86.3 A
Service Factor (S.F.)			1.15	**No-load Current**	3.02 A
NEMA Nom. Eff.	88.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	1.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps				**Temp. Rise @ S.F. Load**	53°C
				Locked-rotor Power Factor	47
				Rotor inertia	0.143 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	80	87	91	93	93	92
Efficiency	82.2	88.2	89.5	89.4	88.4	86.4	88.8
Speed	3572	3543	3513	3479	3443	3404	3457
Line amperes	3.68	4.98	6.72	8.63	10.7	13.1	9.87

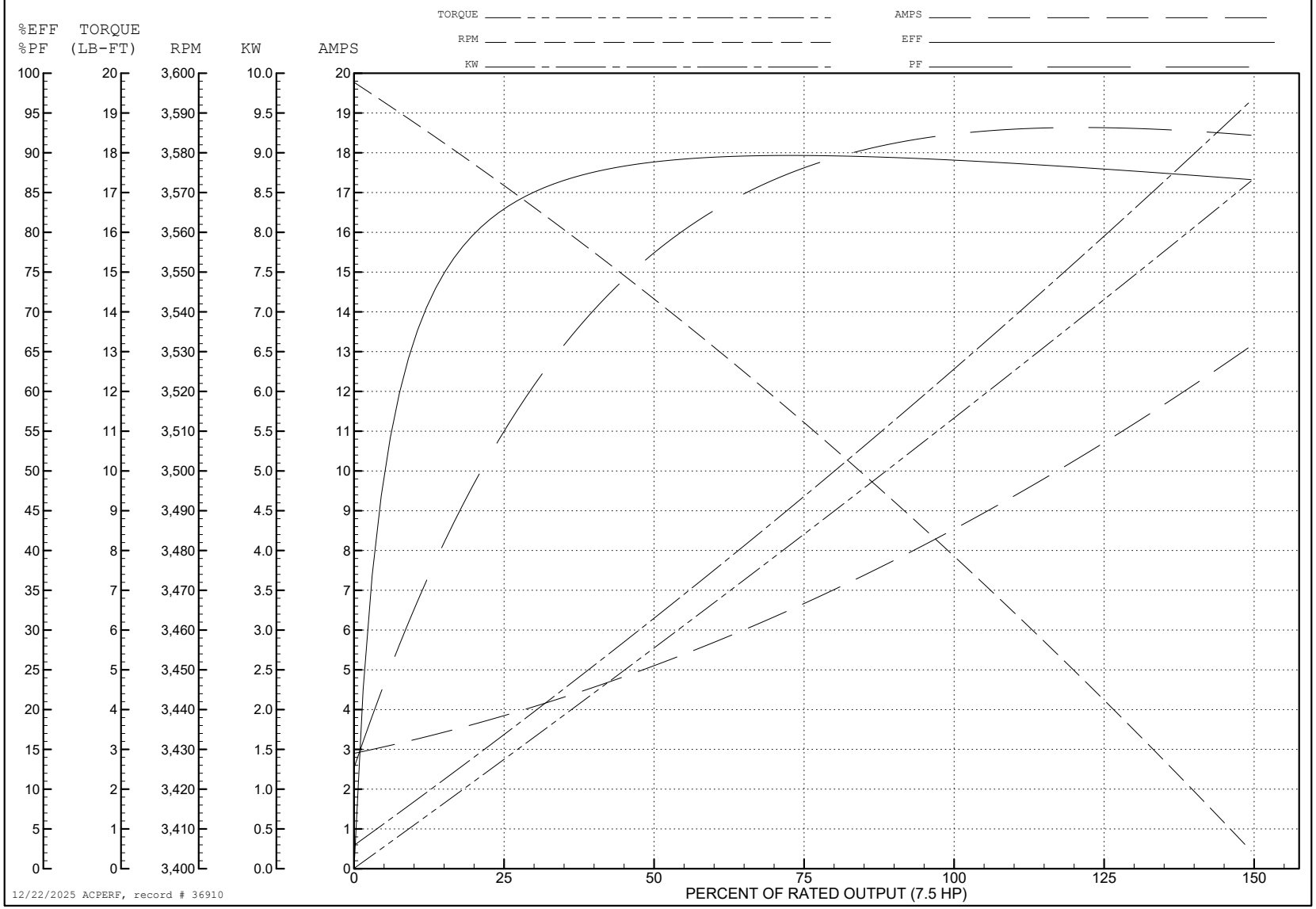
ABB Motors and Mechanical Inc.

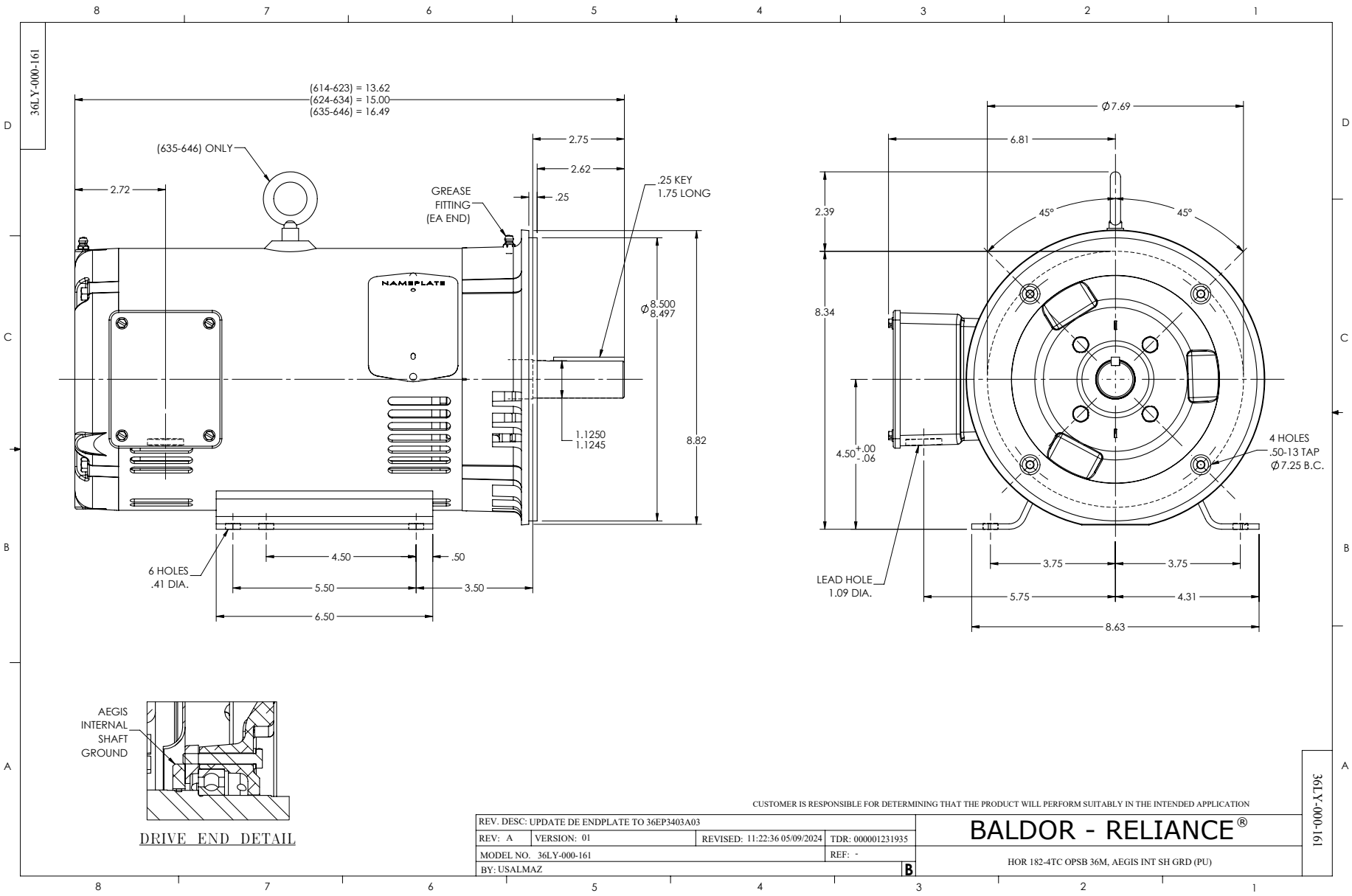
WINDING # 36WGS516

7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3632M

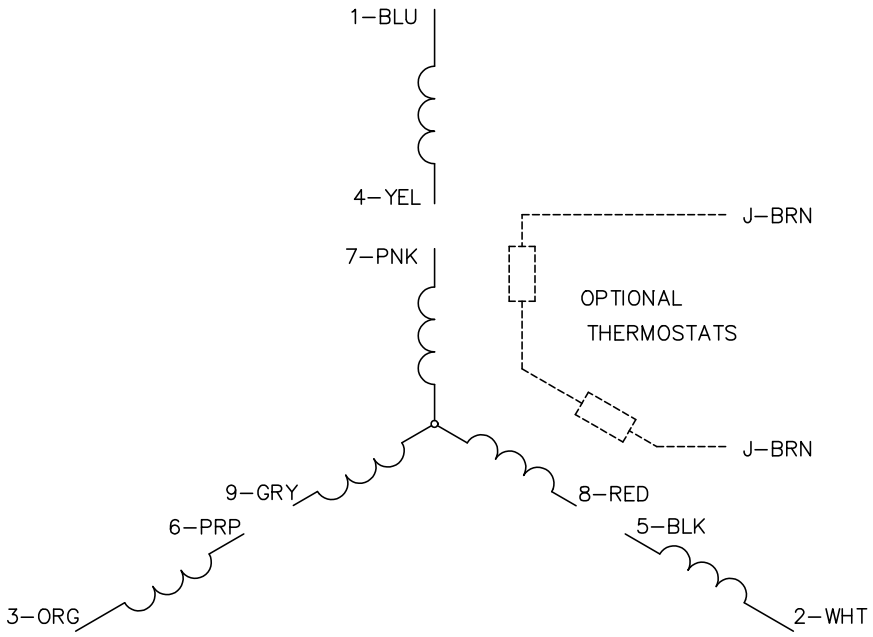
Typical performance - not guaranteed values.

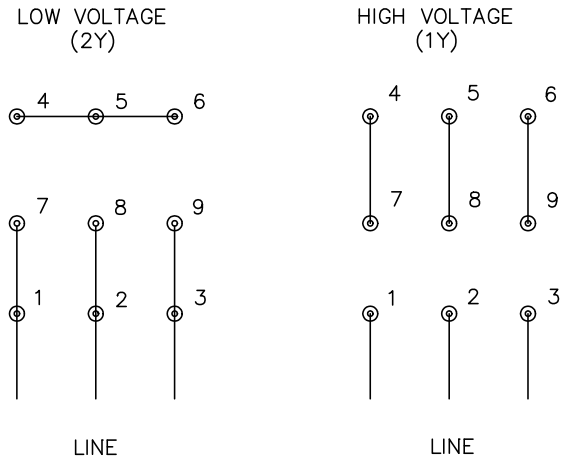
TORQUES(LB-FT): PO=55.2 PU=37 LR=42.6 LRA=86.3




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