Customer information packet

CEM3614T-G

2HP, 1175RPM, 3PH, 60HZ, 184TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	2.000 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	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	6.400 A @ 230.0 V
	3.200 A @ 460.0 V
Design Code	B
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	3.2 a

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGR104
Layout	36LYN147
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	12-17-2019

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3644M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.05 IN
Power Factor	66
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	1175 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

NP3441LUA										
CAT.NO.	CEM3614T-G									
SPEC	36-0000-0253									
HP	2									
VOLTS	230/460									
AMPS	6.4/3.2									
RPM	1175									
FRAME	184TC	**HZ**	60	**PH**	3					
SF	1.15	**CODE**	L	**DES**	B	**CLASS**	H			
NEMA NOM. EFF	88.5	**PF**	66							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6206	**ODE**	6205							
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 2HP 190/380V 7.4/3.7A									SF1.0

AC Induction Motor Performance Data
Record # 80304
Typical performance - not guaranteed values

Winding: 36WGR104-R009	**Type:** 3644M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	8.95 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			6.4/3.2	**Breakdown Torque**	33.6 LB-FT
R.P.M.			1175	**Pull-up Torque**	17.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	23.4 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	23 A
Service Factor (S.F.)			1.15	**No-load Current**	2.01 A
NEMA Nom. Eff.	88.5	**Power Factor**	66	**Line-line Res. @ 25ºC**	4.95 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	28.9
				Rotor inertia	0.413 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	46	57	66	70	73	68
Efficiency	79	86.6	88.4	88.9	88.9	87.3	88.9
Speed	1196	1189	1182	1175	1167	1157	1170
Line amperes	2.11	2.38	2.76	3.21	3.75	4.38	3.53

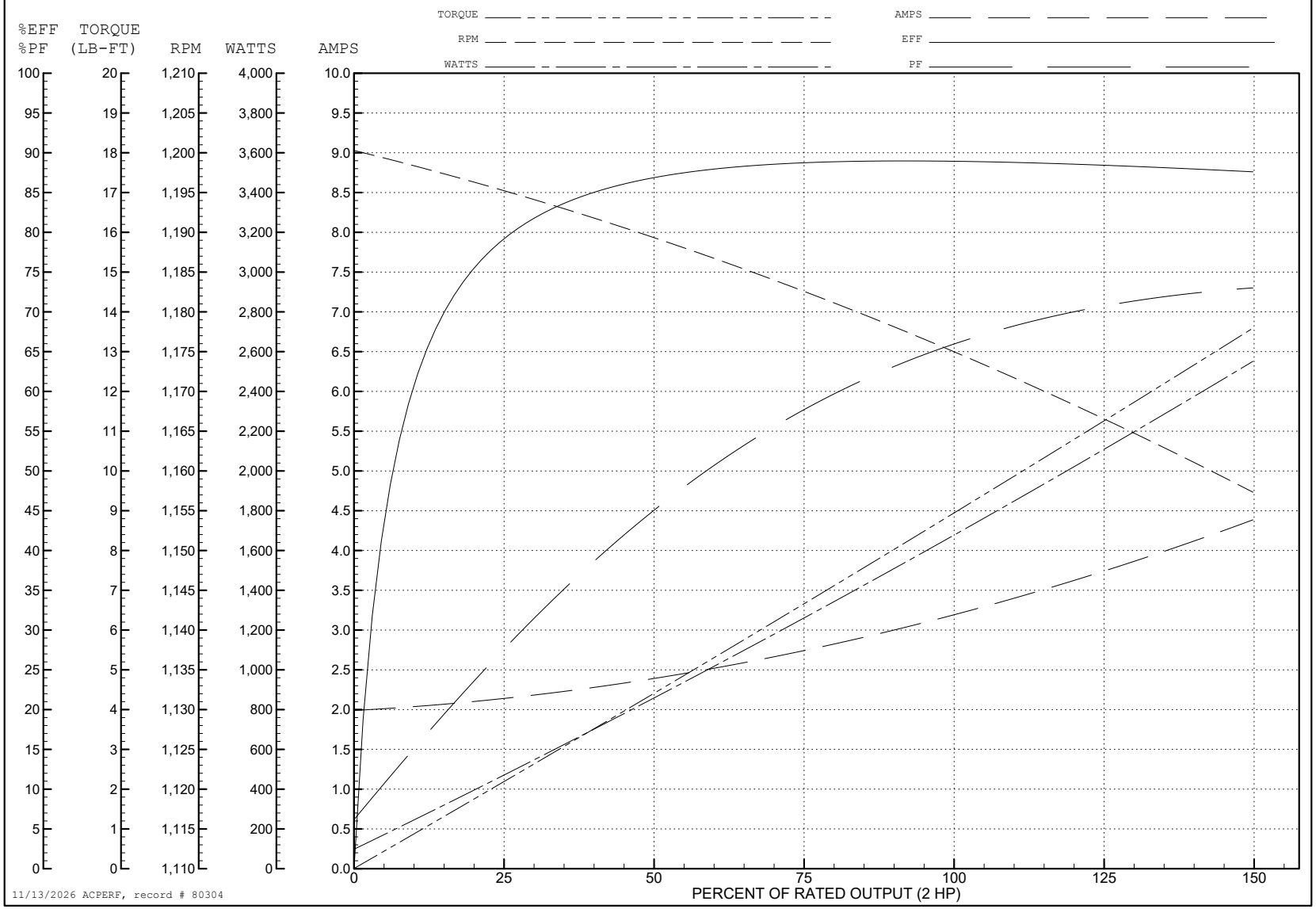
ABB Motors and Mechanical Inc.

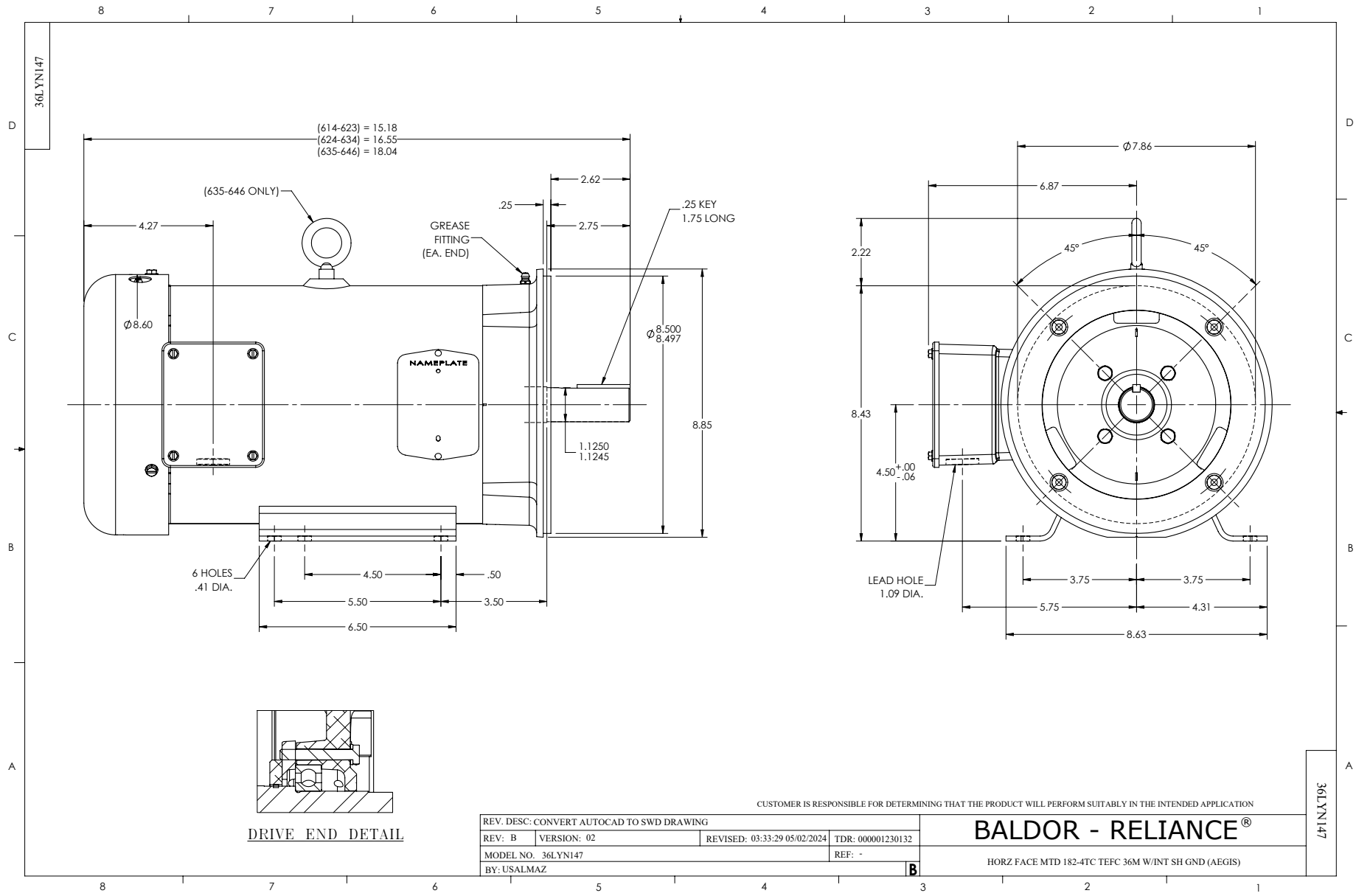
WINDING # 36WGR104

2 HP 3 PH 60 HZ 1175 RPM 460 V 3644M

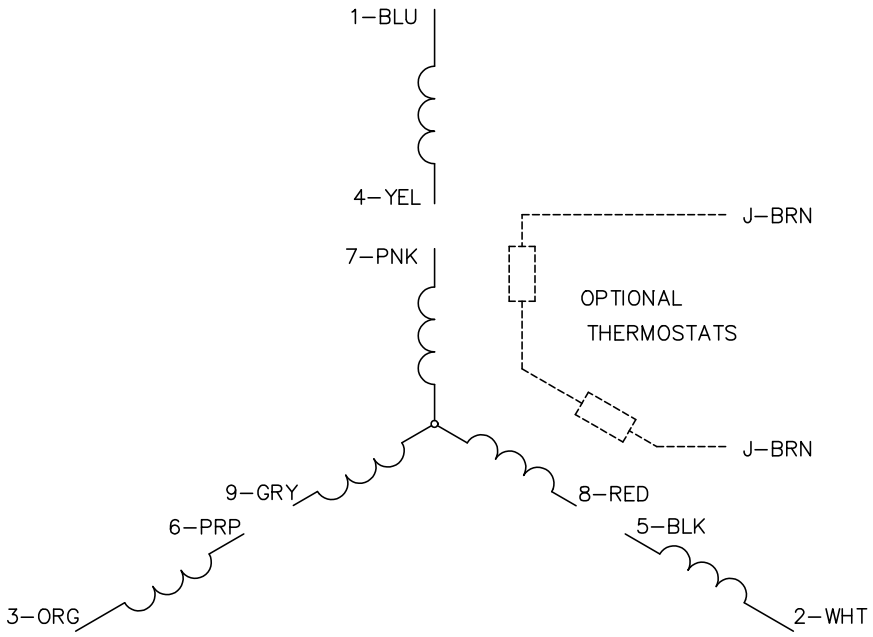
Typical performance - not guaranteed values.

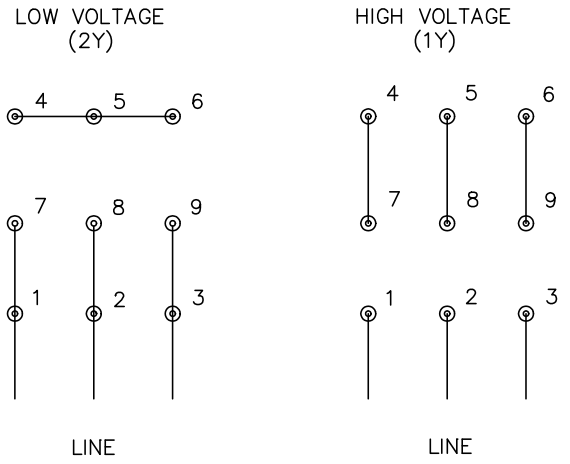
TORQUES(LB-FT): PO=33.6 PU=17.9 LR=23.4 LRA=23




36LYN147
(614-623) = 15.18
(624-634) = 16.55
(635-646) = 18.04
(635-646 ONLY)
4.27
.25
2.62
2.75
.25 KEY
1.75 LONG
GREASE
FITTING
(EA. END)
Ø8.60
NAMEPLATE
Ø8.500
8.497
8.85
1.1250
1.1245
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
Ø7.86
6.87
45°
45°
2.22
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
5.75
4.31
8.63
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: B
VERSION: 02
REVISED: 03:33:29 05/02/2024
TDR: 000001230132
MODEL NO. 36LYN147
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ FACE MTD 182-4TC TEFC 36M W/INT SH GND (AEGIS)
36LYN147

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