Customer information packet

EJMM3615T-G

5HP, 1755RPM, 3PH, 60HZ, 184JM, 3642M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184JM
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	6.700 A @ 460.0 V
	14.000 A @ 208.0 V
	13.400 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
Front Shaft Indicator	None

Part Detail

Revision	F
Type	AC
Mech. spec.	36N542
Base	
Status	PRD/A
Elec. spec.	36WGQ032
Layout	36LYN542
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-04-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	H
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	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.56 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1755 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.	EJMM3615T-G								
SPEC	36N542Q032G1								
HP	5								
VOLTS	230/460								
AMPS	13.4/6.7								
RPM	1755								
FRAME	184JM	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	H		
NEMA NOM. EFF	89.5	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6207	**ODE**	6205						
VPWM INVERTER READY	SFA 15/7.5								
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 5HP 190/380V 15.6/7.8A								SF1.0

AC Induction Motor Performance Data
Record # 85675
Preliminary Data Sheet

Winding: 36WGQ032-RXXX	**Type:** 3642M	**Enclosure:** TEFC

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			13.4/6.7	**Breakdown Torque**	53.1 LB-FT
R.P.M.			1755	**Pull-up Torque**	23.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.7 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	49.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.31 A
NEMA Nom. Eff.	89.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	2.38 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps			15/7.5	**Temp. Rise @ S.F. Load**	92°C
				Locked-rotor Power Factor	49
				Rotor inertia	0.391 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	60	72	79	82	84	81
Efficiency	84.4	89.4	90.1	89.6	88.4	86.8	88.5
Speed	1789	1778	1766	1753	1738	1722	1741
Line amperes	3.64	4.39	5.45	6.66	8.08	9.67	7.52

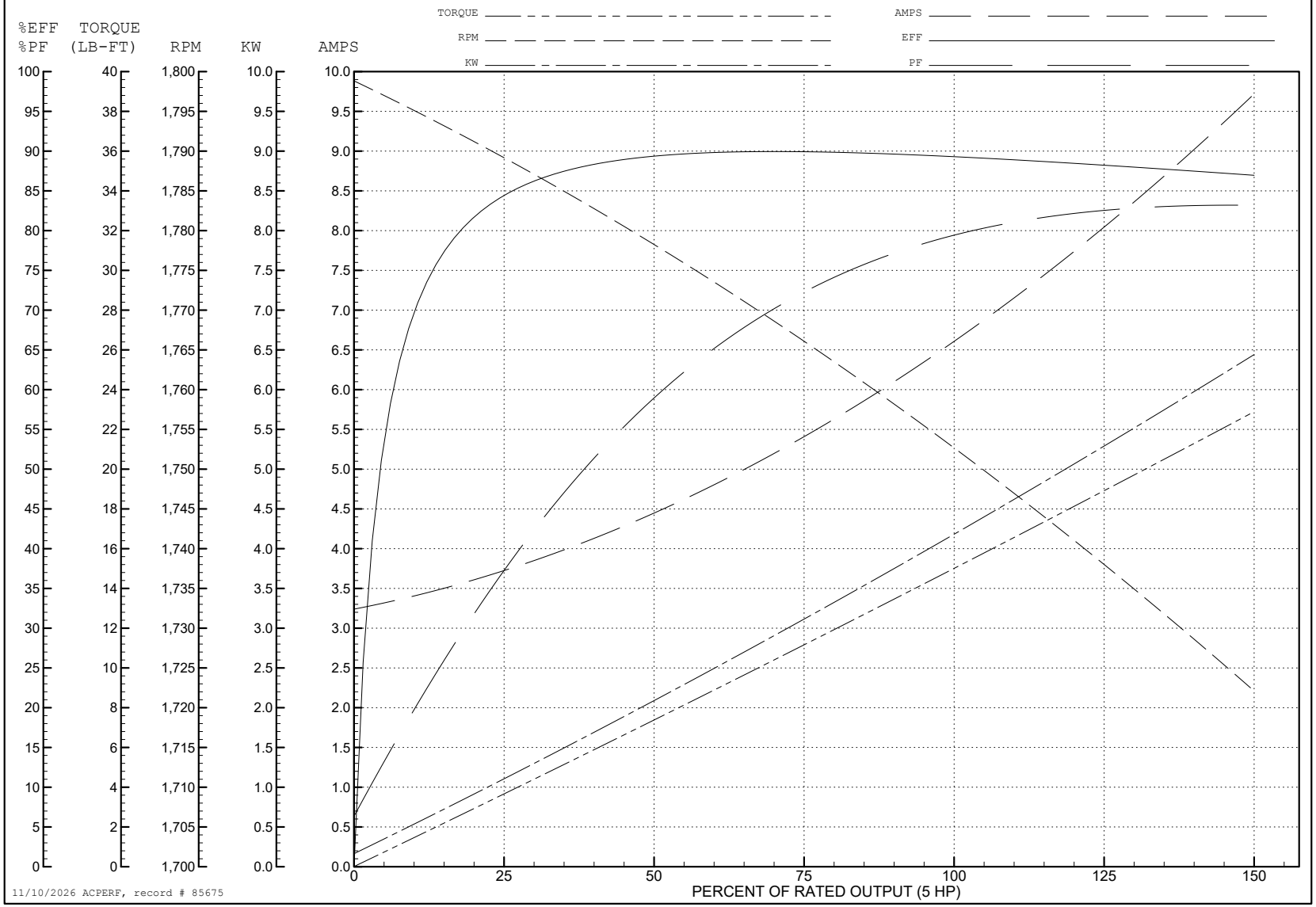
ABB Motors and Mechanical Inc.

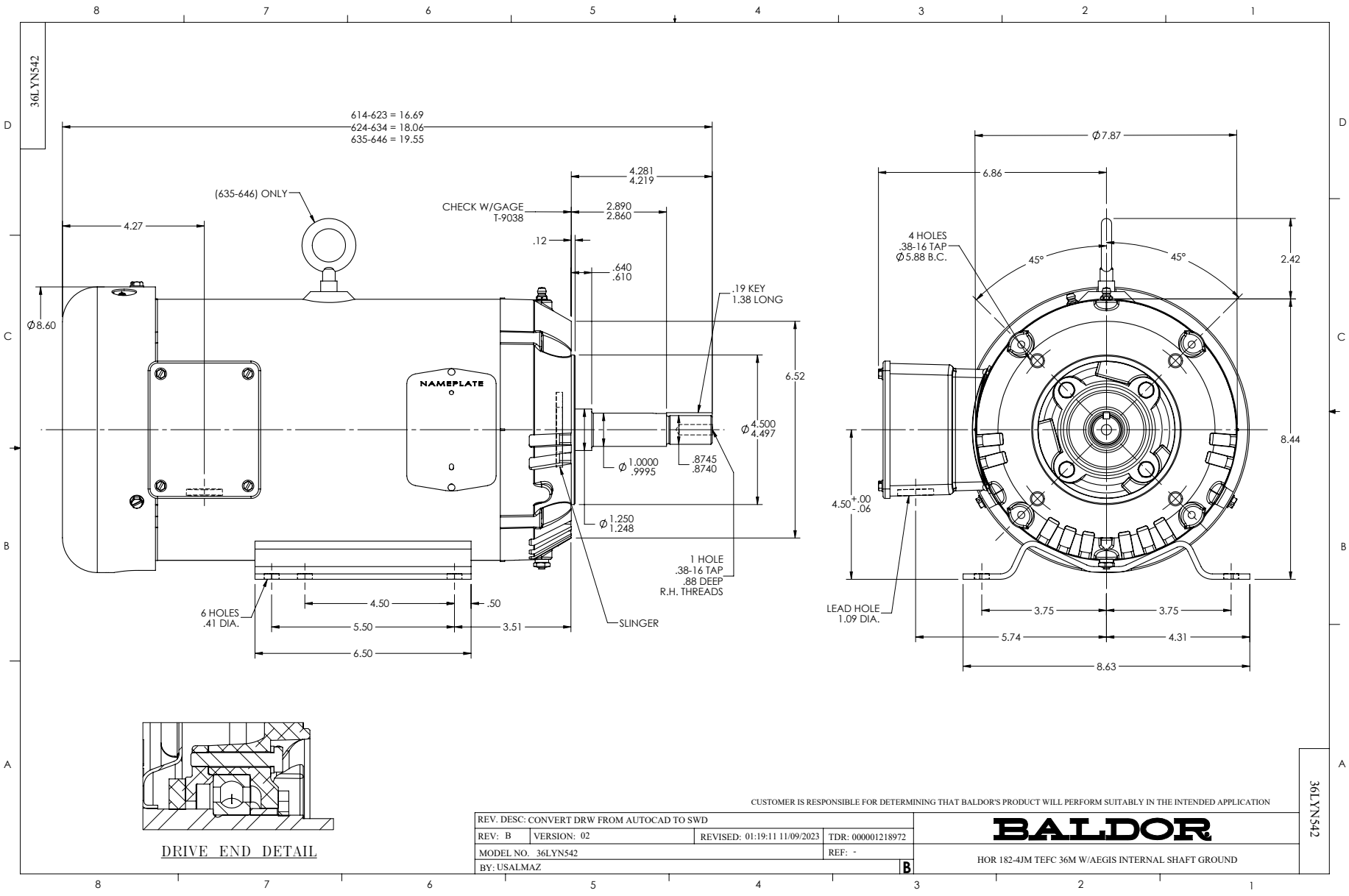
WINDING # 36WGQ032

5 HP 3 PH 60 HZ 1755 RPM 460 V 3642M

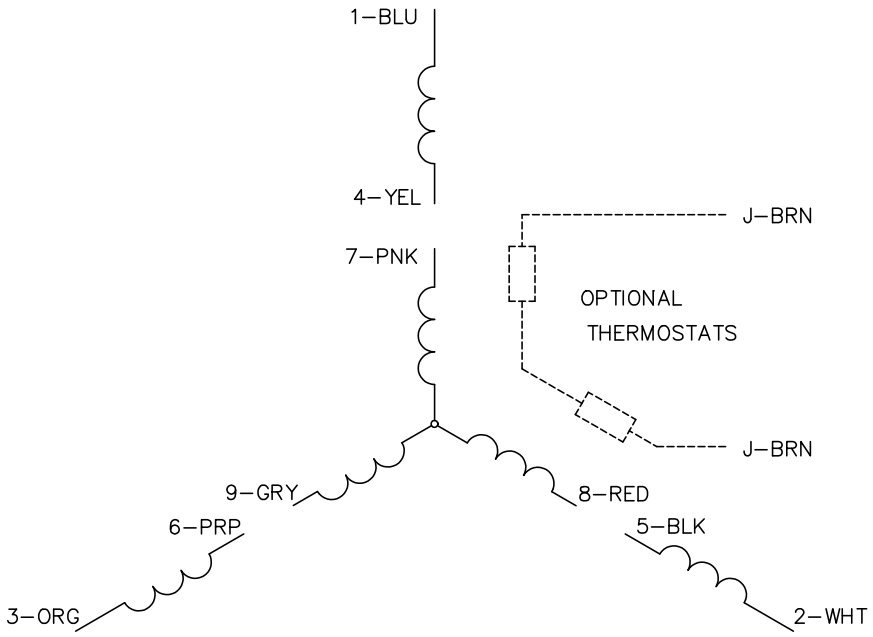
Typical performance - not guaranteed values.

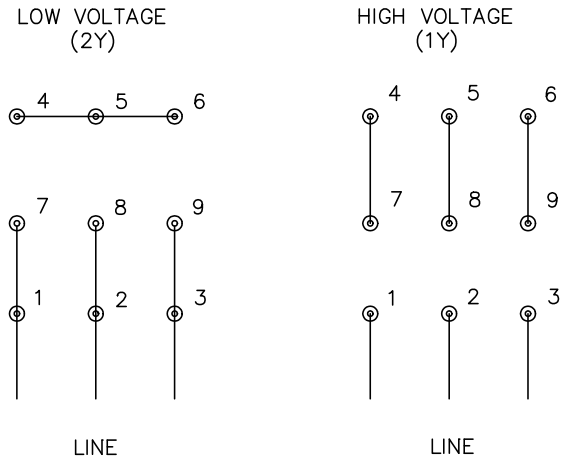
TORQUES(LB-FT): PO=53.1 PU=23.4 LR=34.7 LRA=49.8




36LYN542
614-623 = 16.69
624-634 = 18.06
635-646 = 19.55
(635-646) ONLY
4.27
4.281
4.219
CHECK W/GAGE
T-9038
2.890
2.860
.12
.640
.610
.19 KEY
1.38 LONG
Ø8.60
NAMEPLATE
6.52
Ø 4.500
4.497
Ø 1.0000
.9995
.8745
.8740
Ø 1.250
1.248
1 HOLE
.38-16 TAP
.88 DEEP
R.H. THREADS
6 HOLES
.41 DIA.
4.50
.50
5.50
3.51
6.50
SLINGER
Ø7.87
6.86
4 HOLES
.38-16 TAP
Ø5.88 B.C.
45°
45°
2.42
8.44
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
5.74
4.31
8.63
DRIVE END DETAIL
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: B
VERSION: 02
REVISED: 01:19:11 11/09/2023
TDR: 000001218972
MODEL NO. 36LYN542
REF: -
BY: USALMAZ
B
BALDOR
HOR 182-4JM TEFC 36M W/AEGIS INTERNAL SHAFT GROUND
36LYN542

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