ABB BALDOR RELIANCE

Customer information packet

EJMM3613T-G

5HP, 3450RPM, 3PH, 60HZ, 184JM, 3630M, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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	12.000 A @ 208.0 V
	5.900 A @ 460.0 V
	11.800 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
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	36N542
Base	
Status	PRD/A
Elec. spec.	36WGS042
Layout	36LYN542
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-30-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	5.9 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.06 IN
Power Factor	91
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 Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
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

NP3441LUA									
CAT.NO.	EJMM3613T-G								
SPEC	36N542S042G1								
HP	5								
VOLTS	230/460								
AMPS	11.8/5.9								
RPM	3450								
FRAME	184JM	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	L	**DES**	A	**CLASS**	H		
NEMA NOM. EFF	88.5	**PF**	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6207	**ODE**	6205						
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 5HP 190/380V 14.2/7.1A								SF1.0

AC Induction Motor Performance Data
Record # 57227
Typical performance - not guaranteed values

Winding: 36WGS042-R060	**Type:** 3630M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.67 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			11.8/5.9	**Breakdown Torque**	33.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	23.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.5 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	57.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.68 A
NEMA Nom. Eff.	88.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	2.26 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
S.F. Amps				**Temp. Rise @ S.F. Load**	88°C
				Locked-rotor Power Factor	45.1
				Rotor inertia	0.134 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	81	88	91	93	94	92
Efficiency	84.1	88.9	89.4	88.7	87.3	85.8	87.9
Speed	3569	3537	3504	3466	3428	3385	3443
Line amperes	2.24	3.26	4.47	5.85	7.26	8.8	6.7

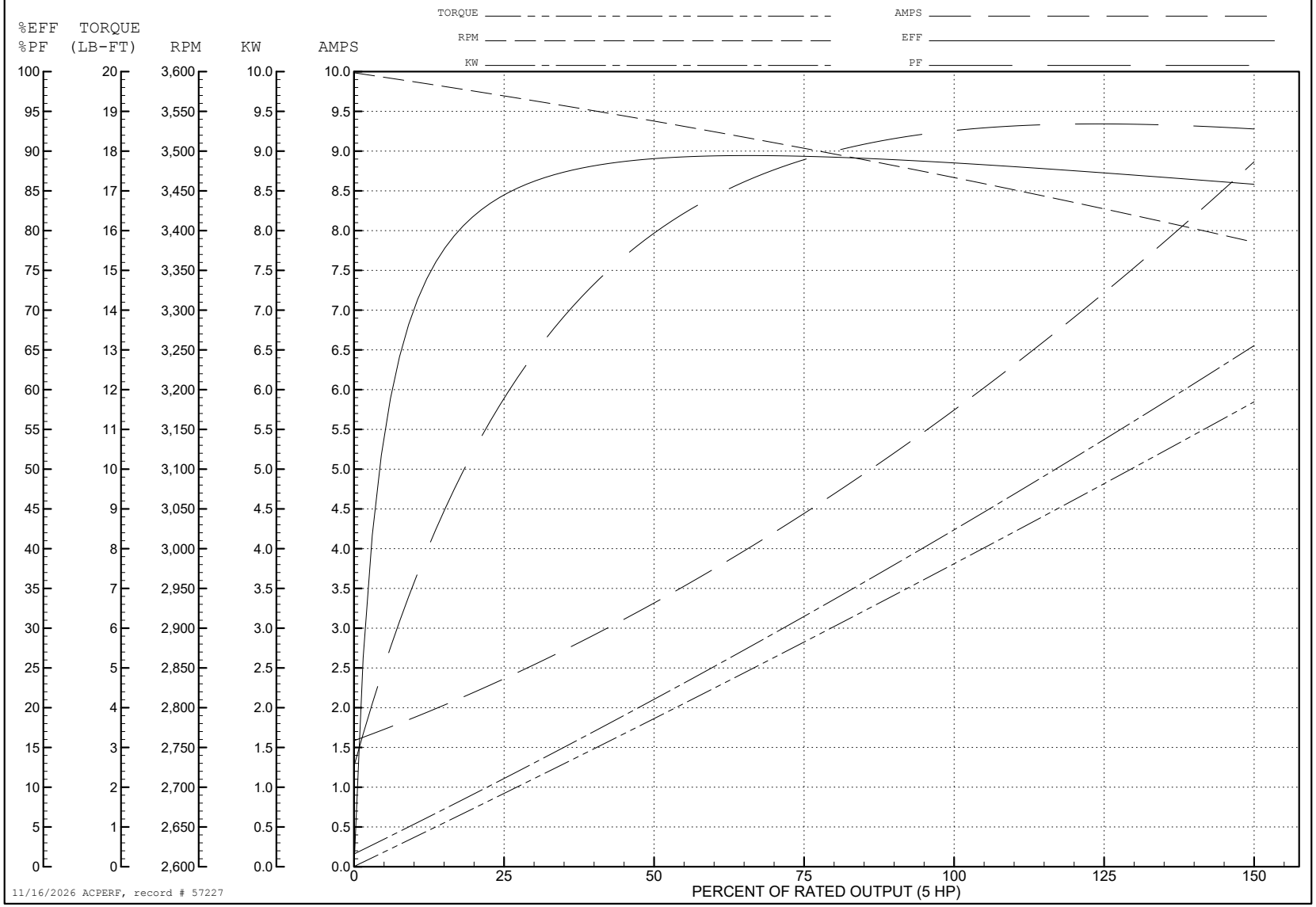
ABB Motors and Mechanical Inc.

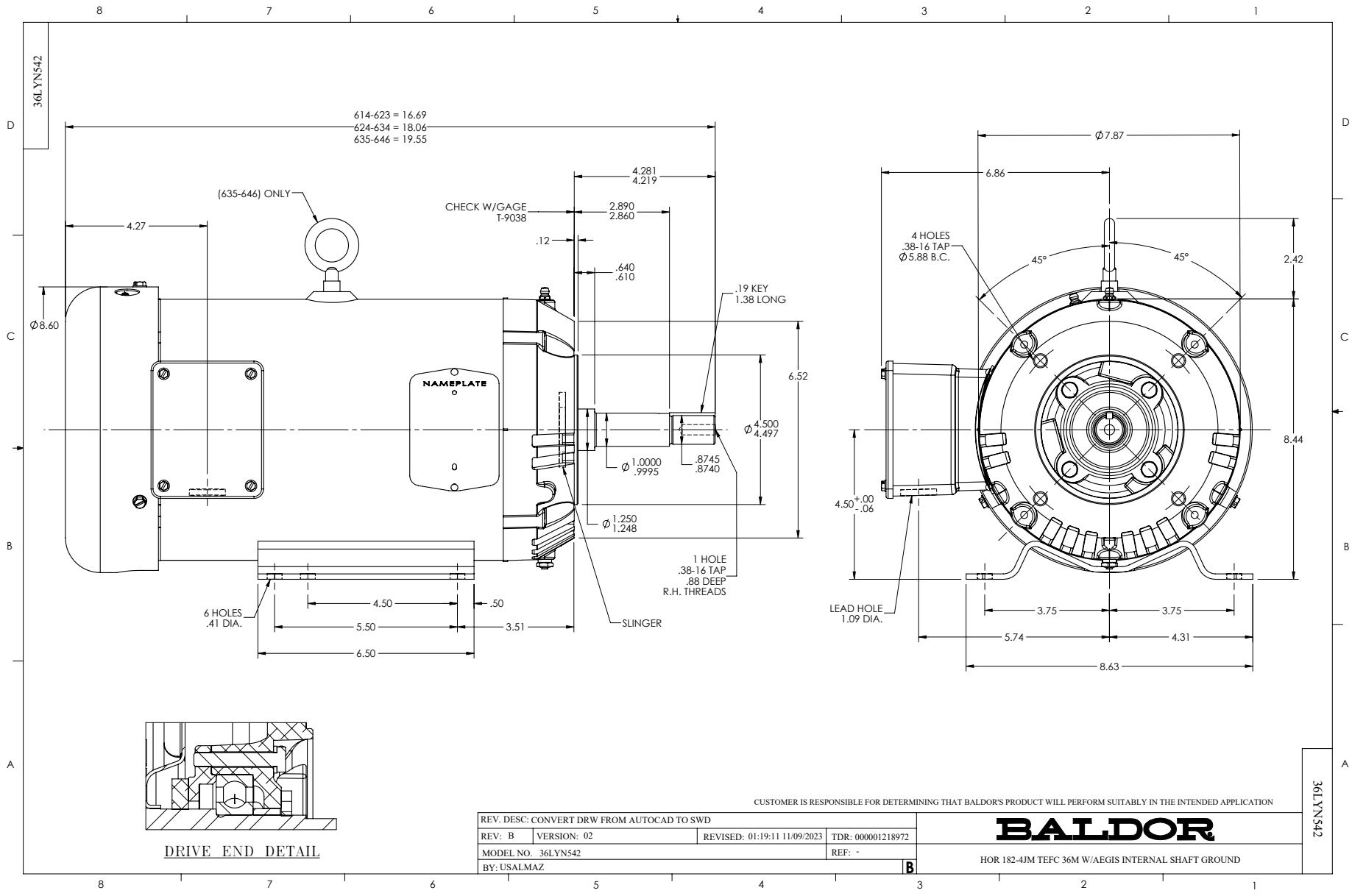
WINDING # 36WGS042

5 HP 3 PH 60 HZ 3450 RPM 460 V 3630M

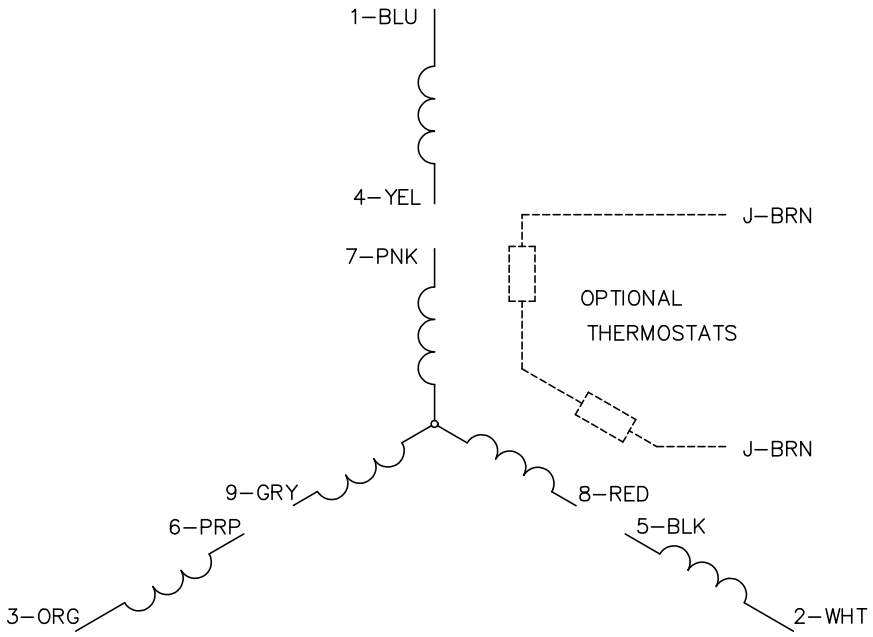
Typical performance - not guaranteed values.

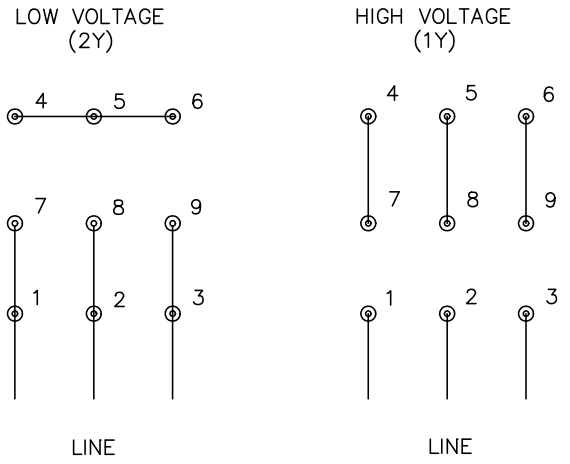
TORQUES(LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=57.2




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