ABB BALDOR RELIANCE

Customer information packet

EM3615T-9

5HP, 1755RPM, 3PH, 60HZ, 184T, 3644M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
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 EEV
	NEMA PREMIUM
	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	7.100 A @ 460.0 V
	14.200 A @ 230.0 V
	14.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	F
Type	AC
Mech. spec.	36Q306
Base	
Status	PRD/A
Elec. spec.	36WGR929
Layout	36LYQ306
Eff. date	04-15-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-25-2016

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3644M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.04 IN
Power Factor	74
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No 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

	NP1267L							
CAT.NO.	EM3615T-9							
SPEC.	36Q306R929G1							
HP	5							
VOLTS	230/460							
AMP	14.2/7.1							
RPM	1755							
FRAME	184T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	A	**CL**	F	
NEMA-NOM-EFF	89.5	**PF**	74					
RATING	40C AMB-CONT							
CC	010A							
DE	6206	**ODE**	6205					
ENCL	TEFC	**SN**						
	DES C TORQUE							

AC Induction Motor Performance Data
Record # 51113
Typical performance - not guaranteed values

Winding: 36WGR929-R001	**Type:** 3644M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	14.87 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14.2/7.1	**Breakdown Torque**	66.64 LB-FT
R.P.M.			1755	**Pull-up Torque**	40.43 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	44.86 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	61.49 A
Service Factor (S.F.)			1.15	**No-load Current**	4.27 A
NEMA Nom. Eff.	89.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	1.83 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	40.3
				Rotor inertia	0.41 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	52	65	73	78	81	77
Efficiency	81.2	87.9	89.8	89.7	89.5	88.3	89.6
Speed	1787	1777	1768	1757	1745	1732	1749
Line amperes	4.51	5.16	6.02	7.13	8.39	9.83	7.82

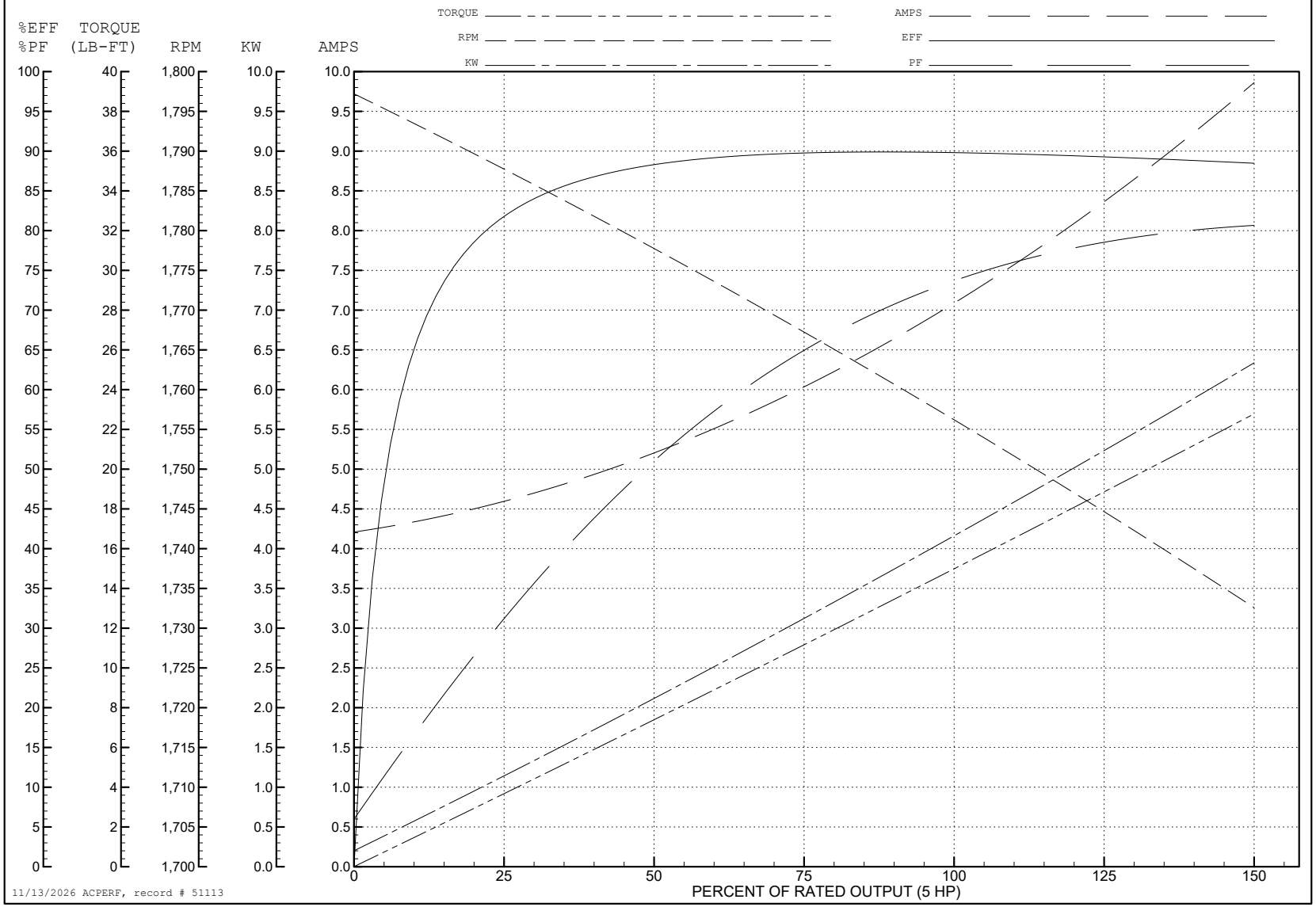
ABB Motors and Mechanical Inc.

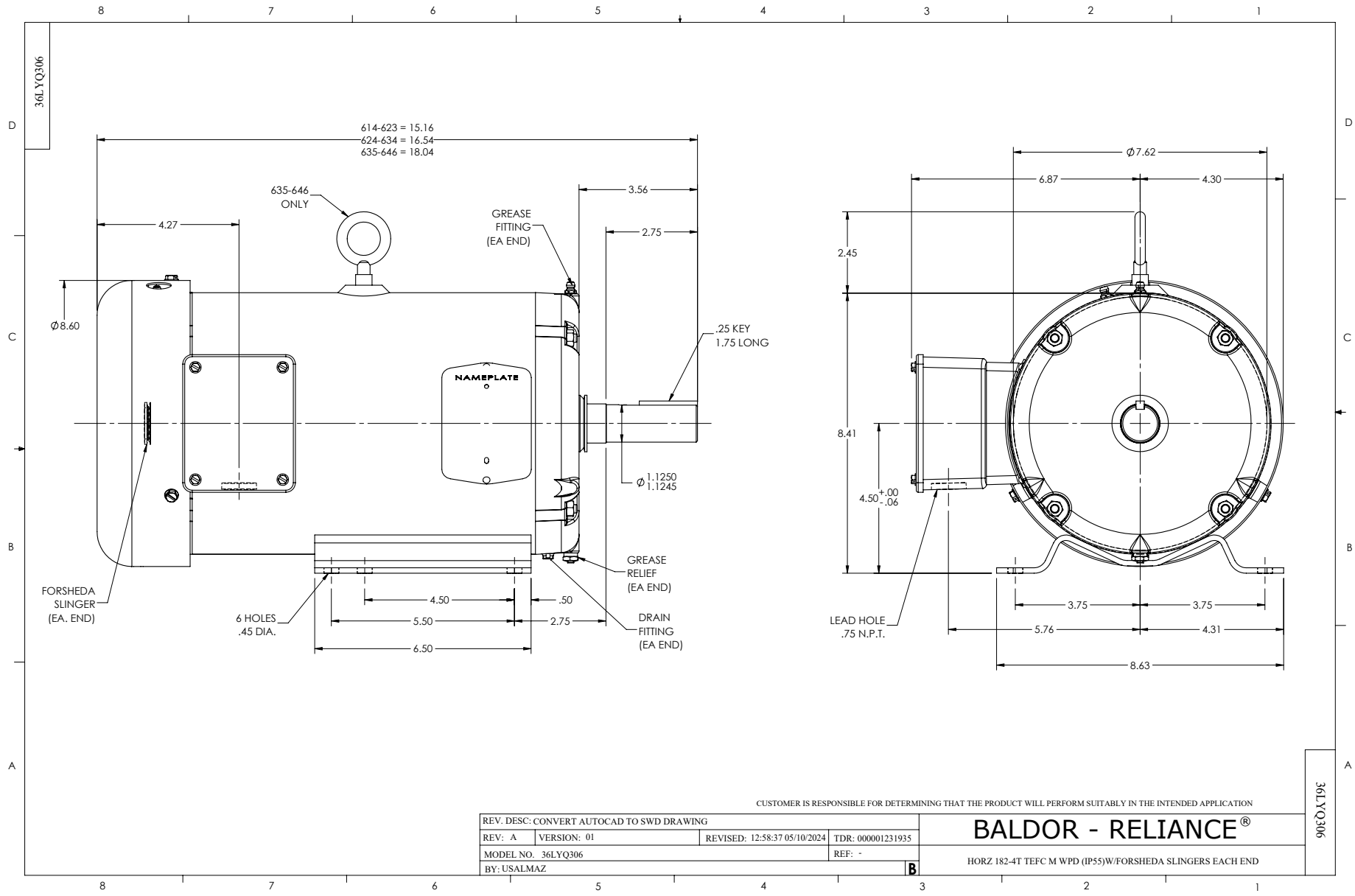
WINDING # 36WGR929

5 HP 3 PH 60 HZ 1755 RPM 460 V 3644M

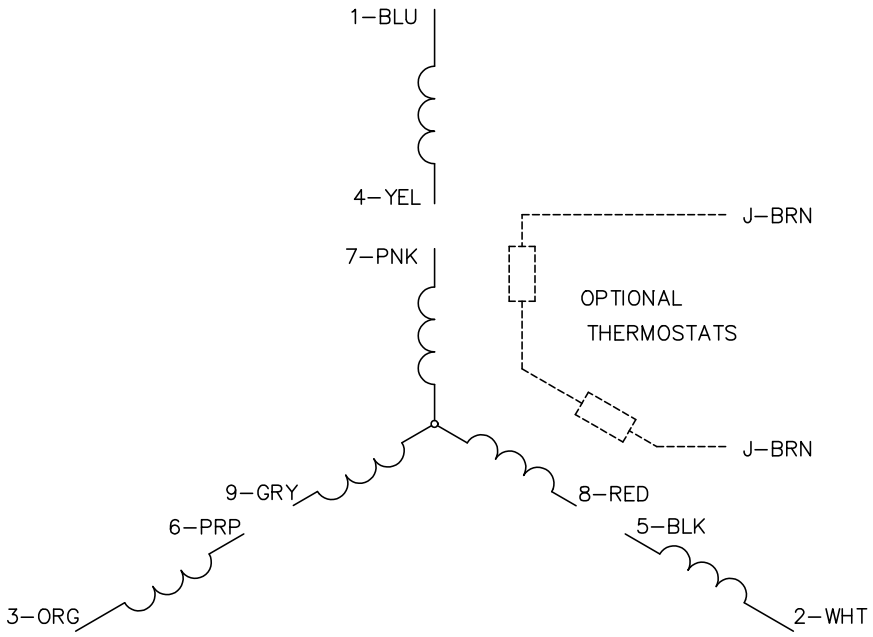
Typical performance - not guaranteed values.

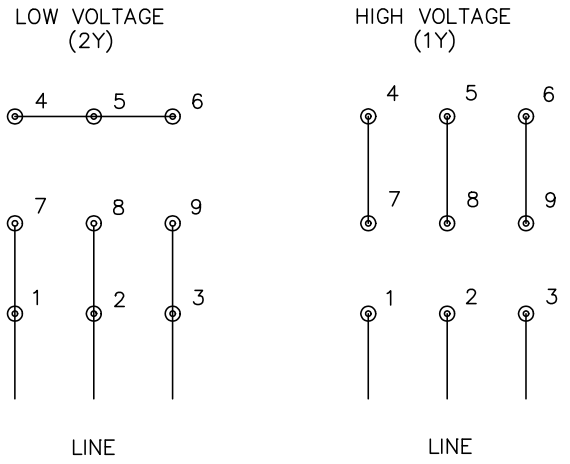
TORQUES(LB-FT): PO=66.64 PU=40.43 LR=44.86 LRA=61.49




36LYQ306
614-623 = 15.16
624-634 = 16.54
635-646 = 18.04
635-646 ONLY
GREASE FITTING (EA END)
3.56
2.75
4.27
Ø8.60
.25 KEY 1.75 LONG
NAMEPLATE
Ø1.1250 1.1245
GREASE RELIEF (EA END)
FORSHEDA SLINGER (EA. END)
6 HOLES .45 DIA.
4.50
.50
5.50
2.75
6.50
DRAIN FITTING (EA END)
Ø7.62
6.87
4.30
2.45
8.41
4.50 +.00 -.06
LEAD HOLE .75 N.P.T.
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: A
VERSION: 01
REVISED: 12:58:37 05/10/2024
TDR: 000001231935
MODEL NO. 36LYQ306
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 182-4T TEFC M WPD (IP55)W/FORSHEDA SLINGERS EACH END
36LYQ306

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