

ABB BALDOR RELIANCE III

Customer information packet

EM3615T-9

5HP, 1755RPM, 3PH, 60HZ, 184T, 3644M, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C	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

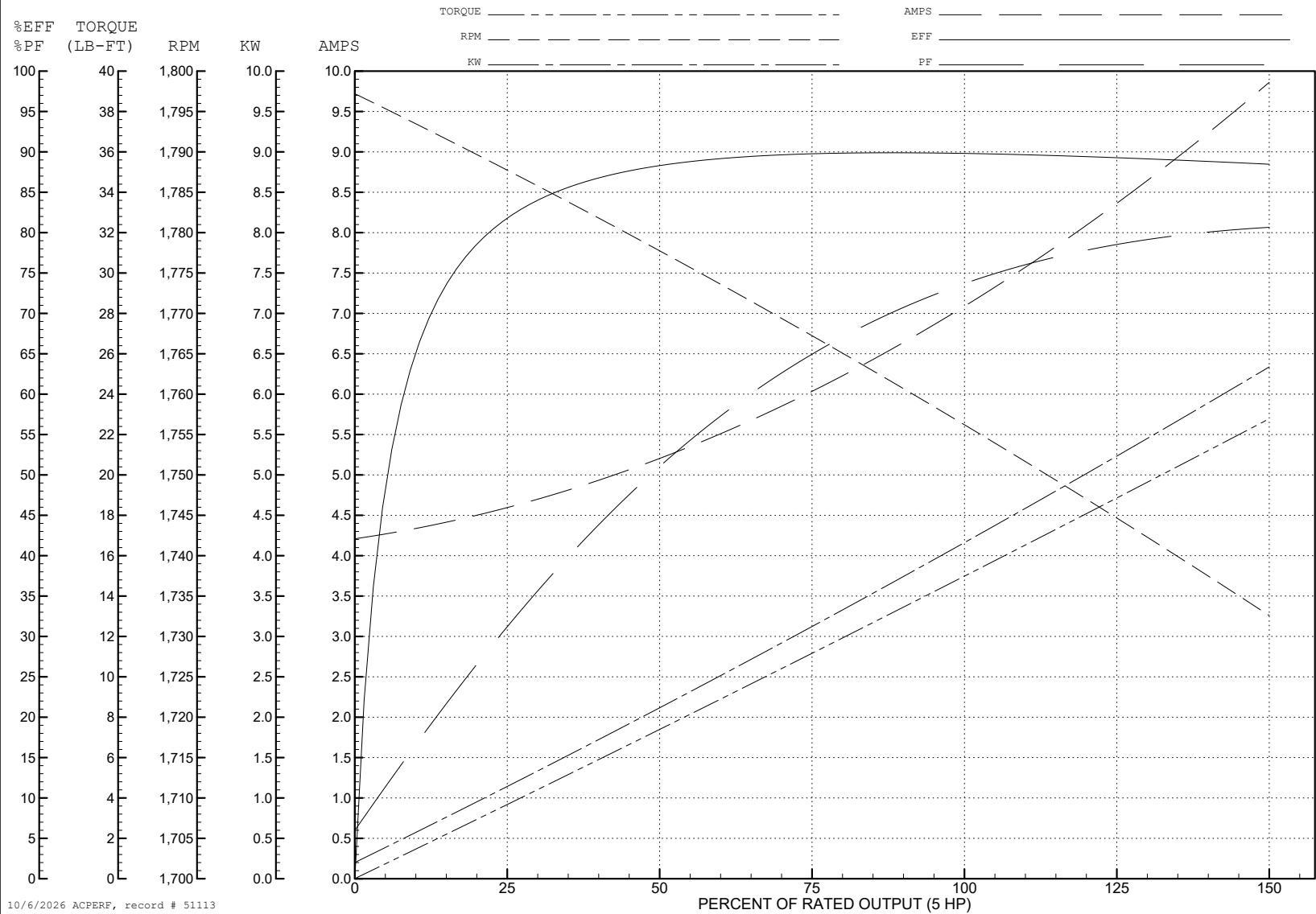
ABB Motors and Mechanical Inc.

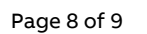
WINDING # 36WGR929

Typical performance - not guaranteed values.

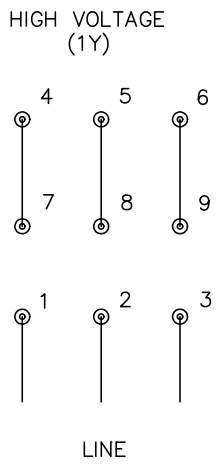
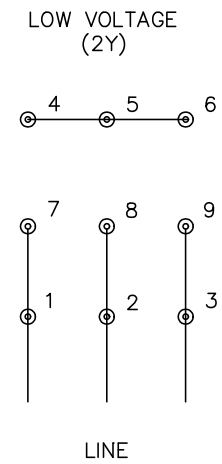
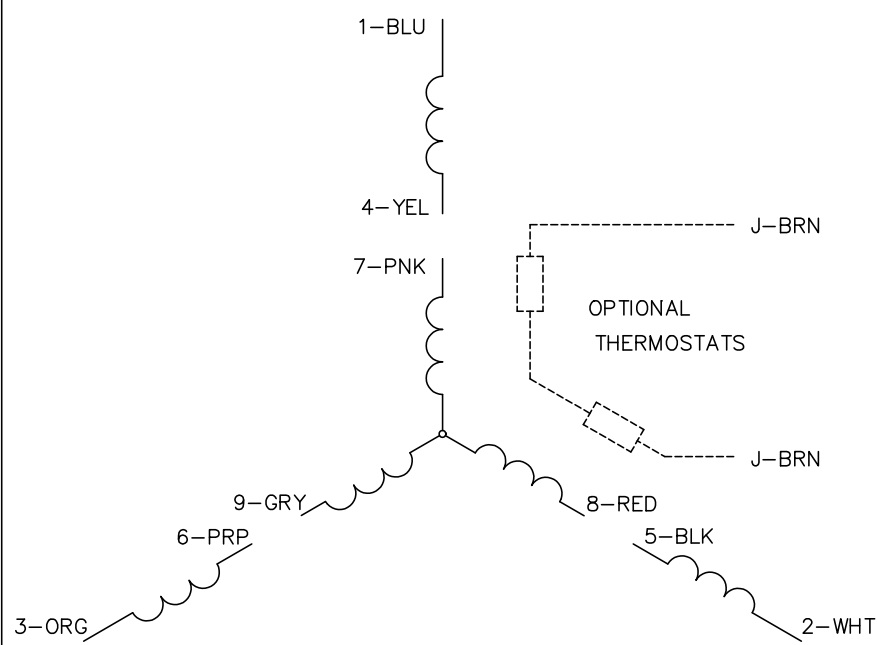
5 HP 3 PH 60 HZ 1755 RPM 460 V 3644M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005