

ABB BALDOR RELIANCE III

Customer information packet

M1009T

7.5/1.9HP, 1730/860RPM, 3PH, 60HZ, 213T, 3734

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	213T
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	7.500 HP @ 60 HZ 1.900 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	18.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	C
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGZ660
Layout	37LYB001
Eff. date	09-05-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#12
Proprietary	False
Created date	12-14-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	16.32 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1730 rpm 860 rpm
Speed Code	2S-1W-VT
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

NP1256L											
CAT.NO.	M1009T										
SPEC.	37B001Z660										
HP	7.5/1.9										
VOLTS	230										
AMP	18.6/7.3										
RPM	1730/860										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15		CODE	J	DES	B		CLASS	B		
NEMA-NOM-EFF			PF								
RATING	40C AMB-CONT										
CC											
DE	6307		ODE	6206							
ENCL	OPEN		SN								

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 85841

Typical performance - not guaranteed values

Winding: 37WGZ660-R001			Type: 3734M		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Speed Connection				
Rated Output (HP)		7.5/1.9	Full Load Torque		22.8 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		18.6/7.3	Breakdown Torque		71.84 LB-FT		
R.P.M.		1730/860	Pull-up Torque		59.18 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		66.32 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		139 A
Service Factor (S.F.)		1.15		No-load Current		8.03 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		0.639 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps				Temp. Rise @ S.F. Load		70°C	
				Locked-rotor Power Factor		56.6	
				Rotor inertia		0.836 lb-ft²	

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	73	83	88	89	89	86
Efficiency	80.4	86.1	86.8	86.1	84.7	82.6	84.7
Speed	1783	1768	1751	1732	1712	1689	1712
Line amperes	9.03	11.48	14.77	18.62	23	27.9	22.1

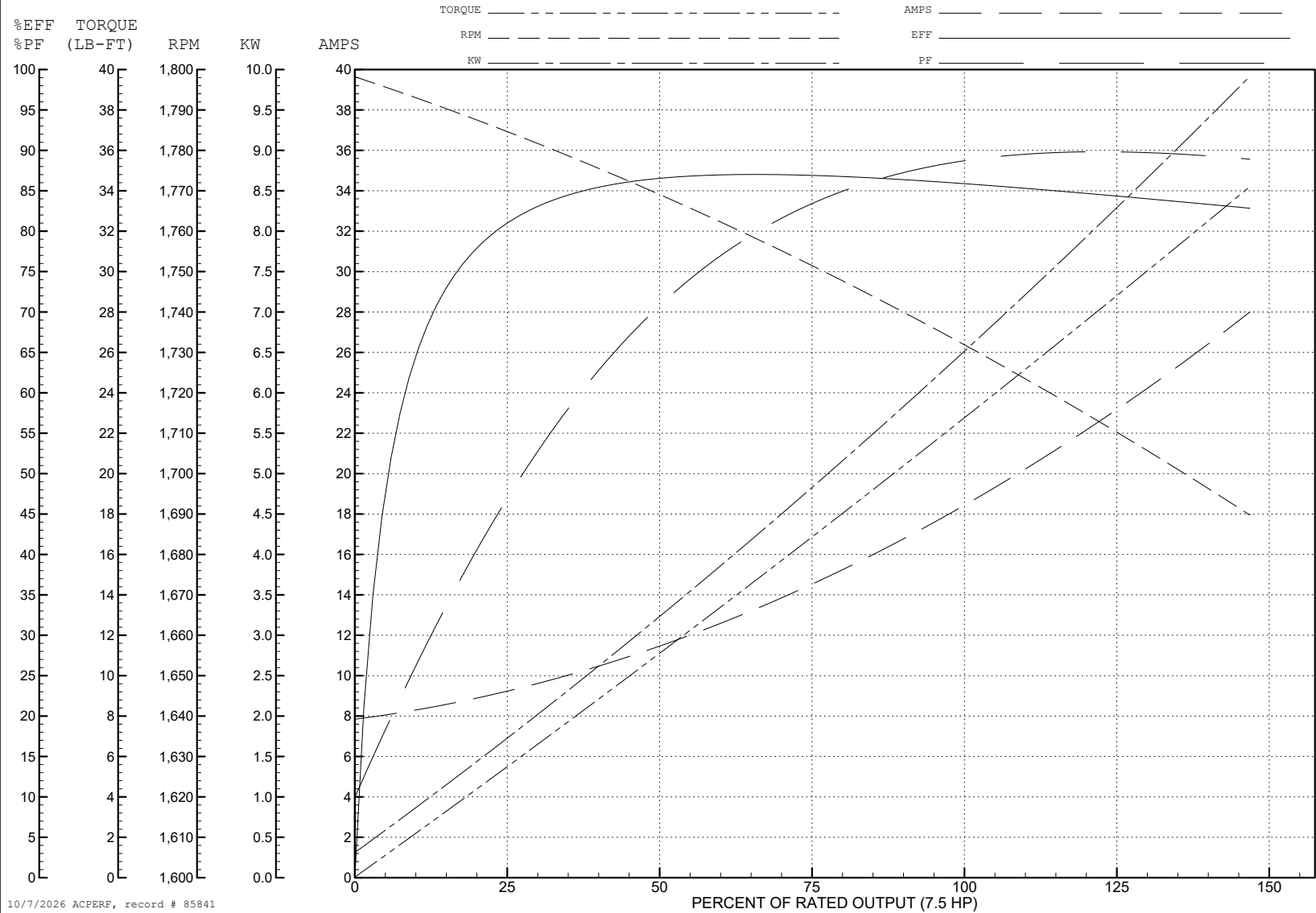
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WINDING # 37WGZ660

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1732 RPM 230 V 3734M

TORQUES (LB-FT) : PO=71.84 PU=59.18 LR=66.32 LRA=139



AC Induction Motor Performance Data

Record # 85842

Typical performance - not guaranteed values

Winding: 37WGZ660-R001			Type: 3734M		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: Low Speed Connection				
Rated Output (HP)		7.5/1.9	Full Load Torque		11.55 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		18.6/7.3	Breakdown Torque		31.64 LB-FT		
R.P.M.		1730/860	Pull-up Torque		21.87 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		24.3 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		34.15 A
Service Factor (S.F.)		1.15		No-load Current		5.55 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		2.56 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		52°C	
S.F. Amps				Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		50.9	
				Rotor inertia		0.836 lb-ft²	

Load Characteristics 230 V, 60 Hz, 1.9 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	41	53	63	69	73	61
Efficiency	62	73.2	76.7	77.4	76.8	75.3	78.5
Speed	891	882	873	864	852	838	848
Line amperes	5.71	6.05	6.59	7.35	8.33	9.52	8.55

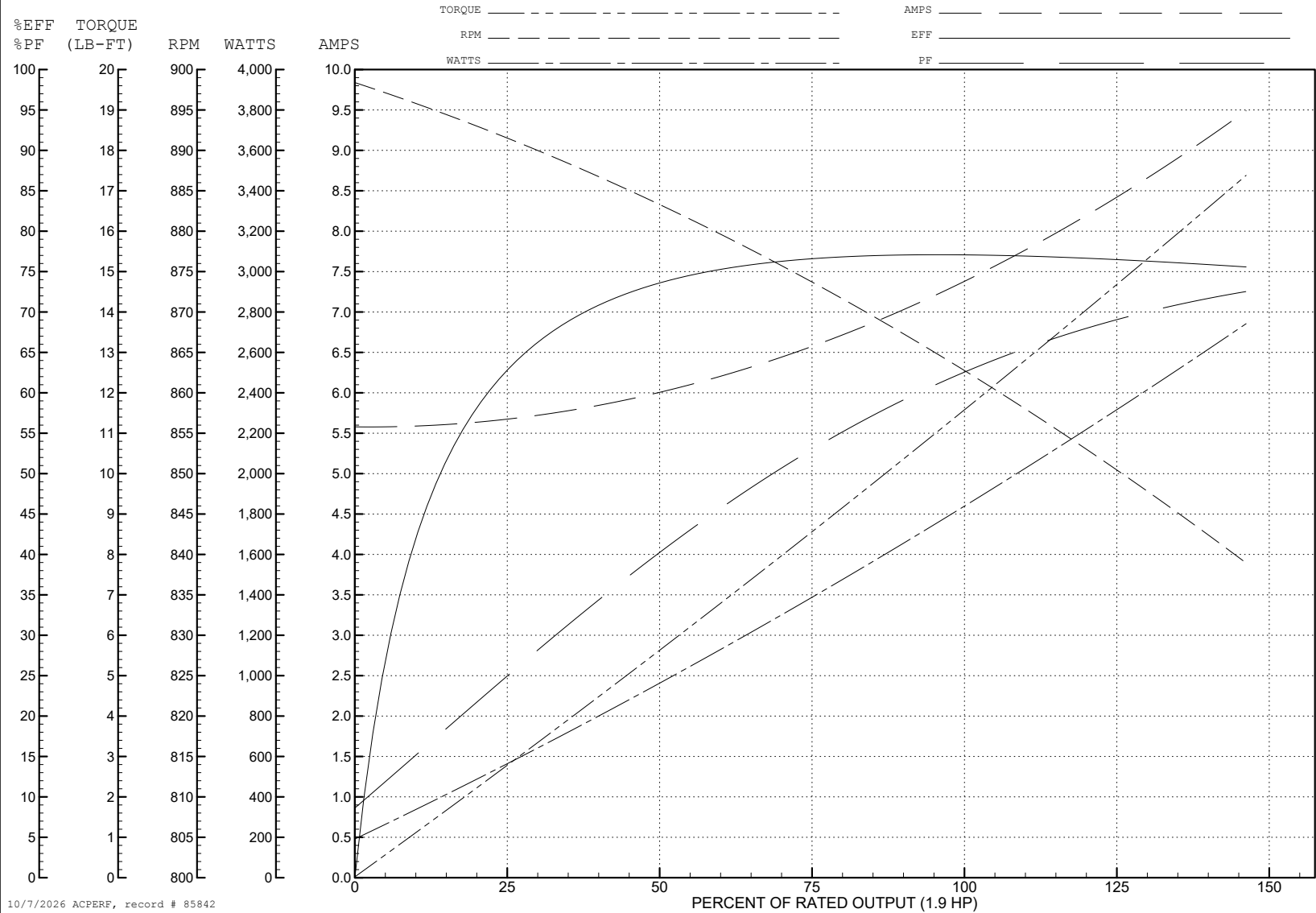
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WINDING # 37WGZ660

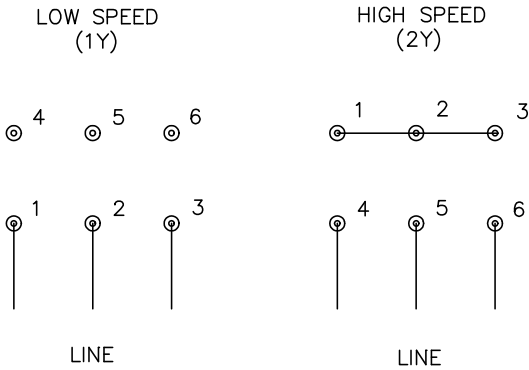
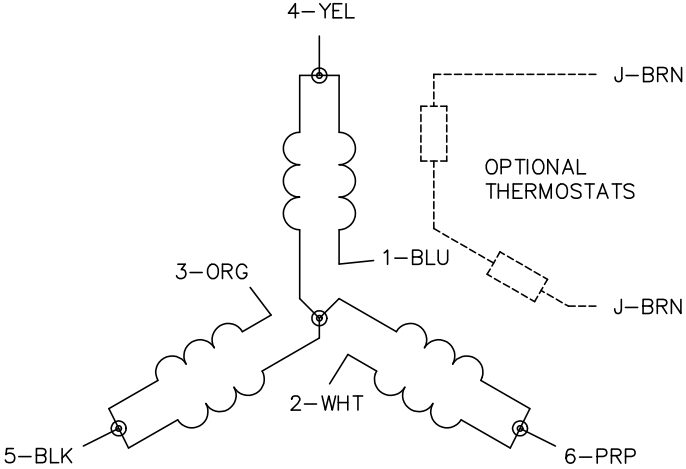
Typical performance - not guaranteed values.

1.9 HP 3 PH 60 HZ 864 RPM 230 V 3734M

TORQUES (LB-FT) : PO=31.64 PU=21.87 LR=24.3 LRA=34.15



CD0032



- 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: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032