

ABB BALDOR RELIANCE III

Customer information packet

M1209T

7.5/1.9HP, 1735/865RPM, 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	460.0 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	9.500 A @ 460.0 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	3.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	C
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGZ657
Layout	37LYB001
Eff. date	09-05-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#14
Proprietary	False
Created date	12-11-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 14 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	1735 rpm 865 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.	M1209T								
SPEC.	37B01Z657								
HP	7.5/1.9								
VOLTS	460								
AMP	9.5/3.8								
RPM	1735/865								
FRAME	213T	HZ		60		PH		3	
SER.F.	1.15	CODE		K	DES	B	CLASS	F	
NEMA-NOM-EFF	PF								
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	OPEN	SN							

Parts List

Part number	Description	Quantity
SA388841	SA 37B01Z657	1.000 ea
RA379205	RA 37B01Z657	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3203A00	MASTER,ODE,206 BRG,GREASER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3204D00	MASTER,DE,307 BRG,GREASER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 85808

Typical performance - not guaranteed values

Winding: 37WGZ657-R001			Type: 3734M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Speed Connection				
Rated Output (HP)		7.5/1.9	Full Load Torque		22.77 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		9.5/3.8	Breakdown Torque		74.39 LB-FT		
R.P.M.		1735/865	Pull-up Torque		61.47 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		68.88 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		72.78 A
Service Factor (S.F.)		1.15		No-load Current		4.27 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		2.5 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		57.2	
				Rotor inertia		0.836 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	71	81	86	89	89	87
Efficiency	79.6	85.6	86.7	86	84.7	82.7	84.2
Speed	1784	1769	1753	1735	1715	1693	1707
Line amperes	4.79	5.92	7.58	9.47	11.58	13.98	11

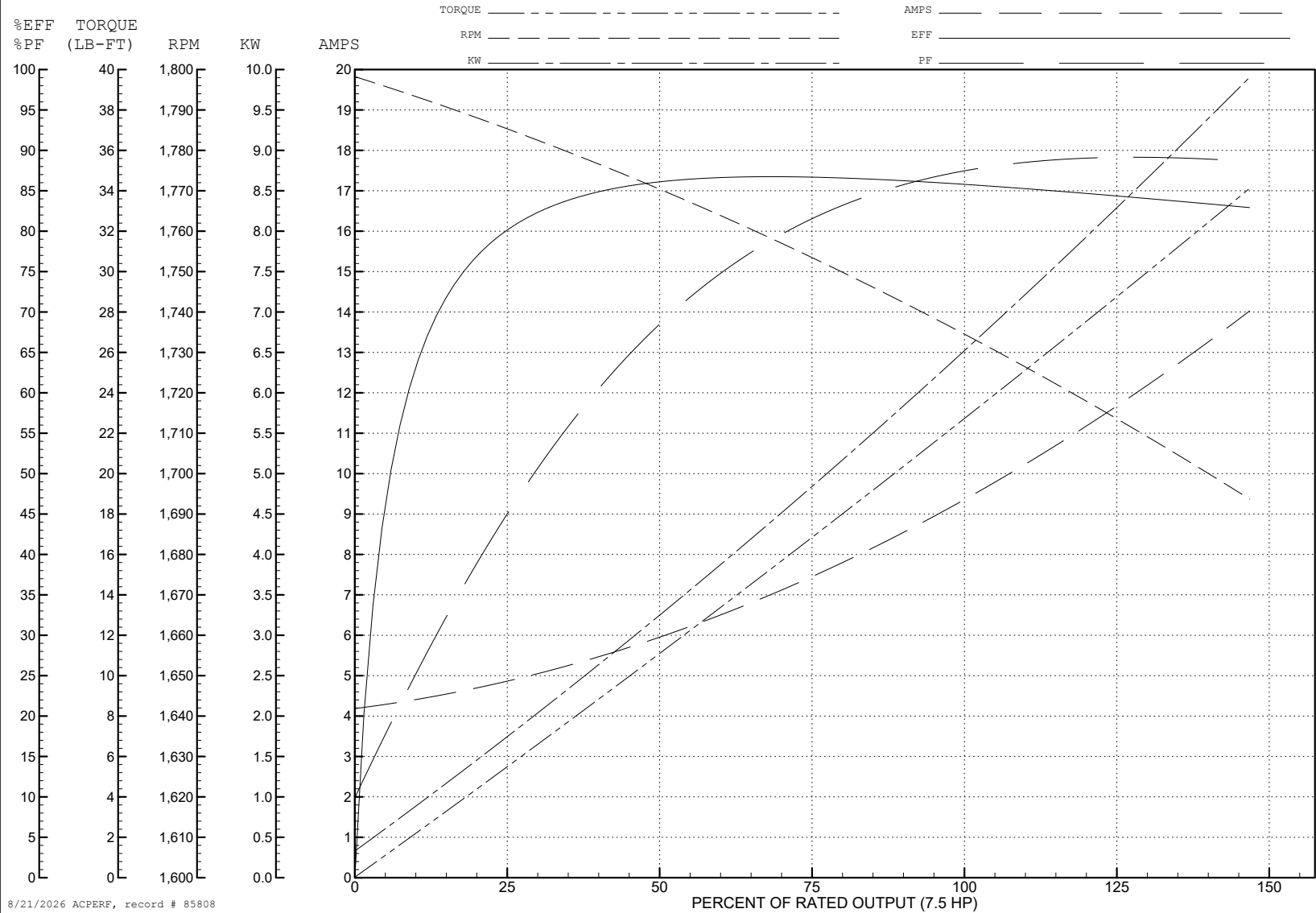
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WINDING # 37WGZ657

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1735 RPM 460 V 3734M

TORQUES (LB-FT) : PO=74.39 PU=61.47 LR=68.88 LRA=72.78



AC Induction Motor Performance Data

Record # 85809

Typical performance - not guaranteed values

Winding: 37WGZ657-R001			Type: 3734M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: Low Speed Connection				
Rated Output (HP)		7.5/1.9	Full Load Torque		11.53 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		9.5/3.8	Breakdown Torque		32.79 LB-FT		
R.P.M.		1735/865	Pull-up Torque		22.69 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		25.21 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		17.82 A
Service Factor (S.F.)		1.15		No-load Current		2.98 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		9.99 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		63°C	
				Locked-rotor Power Factor		51.5	
				Rotor inertia		0.836 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.9 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	39	51	60	67	71	62
Efficiency	60.7	72.2	76	77	76.6	75.4	74.7
Speed	892	883	874	866	855	842	841
Line amperes	3.05	3.21	3.47	3.83	4.3	4.87	4.35

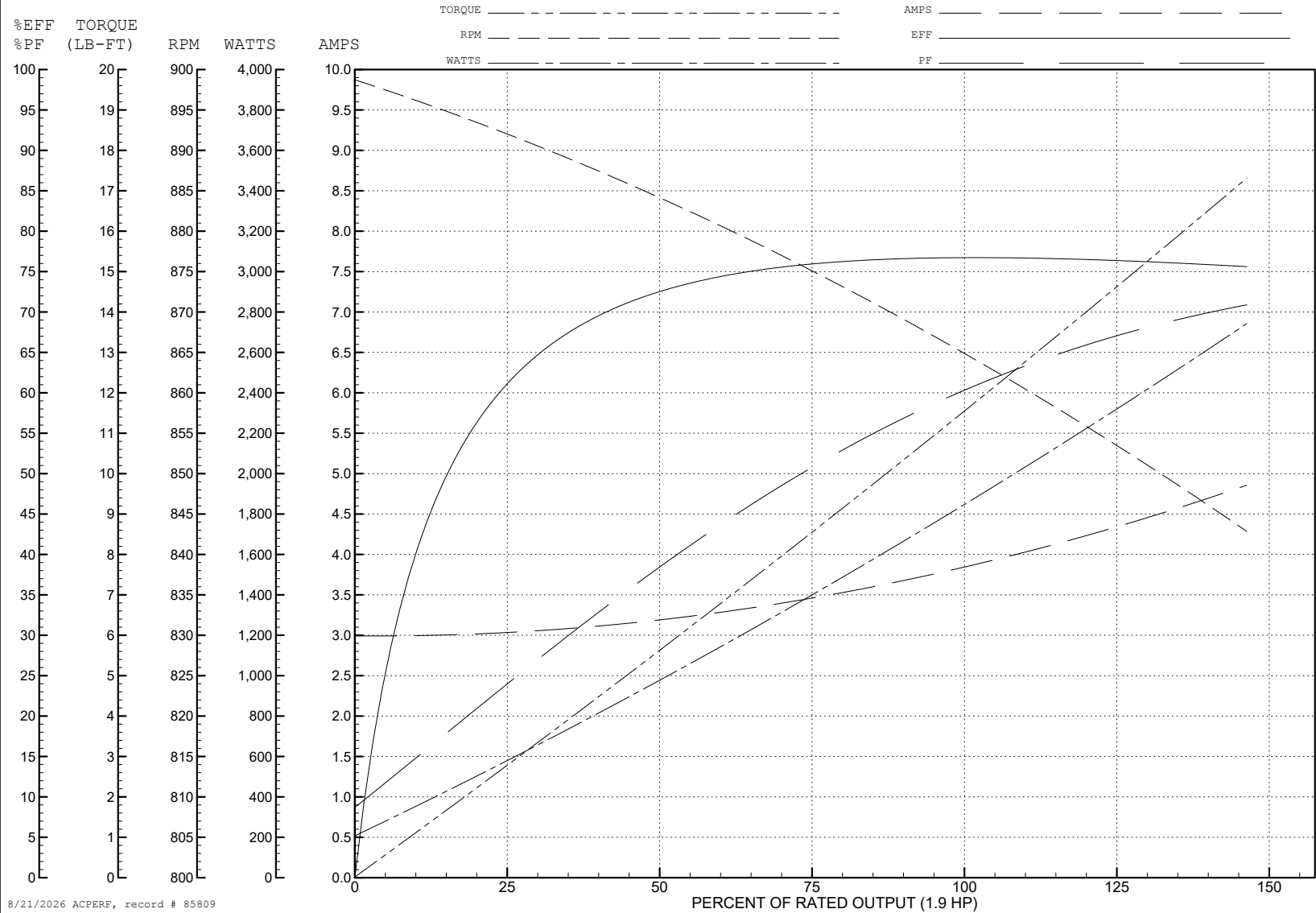
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WINDING # 37WGZ657

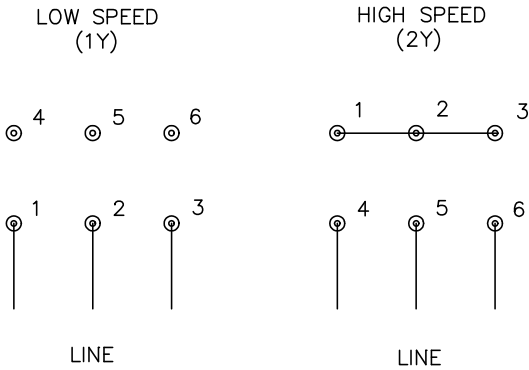
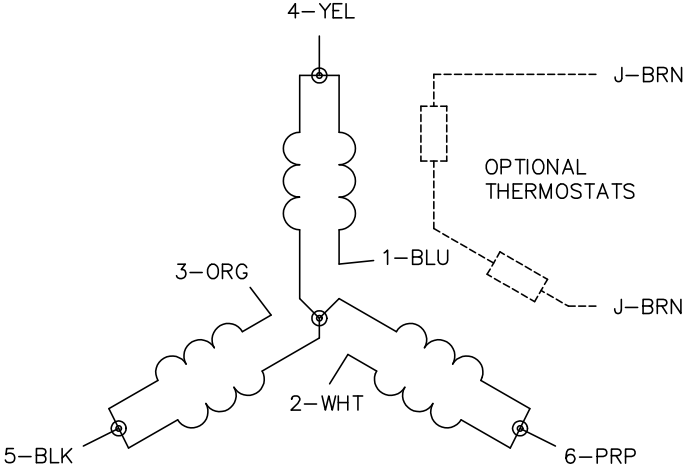
Typical performance - not guaranteed values.

1.9 HP 3 PH 60 HZ 866 RPM 460 V 3734M

TORQUES (LB-FT) : PO=32.79 PU=22.69 LR=25.21 LRA=17.82



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