

ABB BALDOR RELIANCE III

Customer information packet

M1508T

44M 4/8P TEFC HOR 215T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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 2.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 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	10.400 A @ 230.0 V 13.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.4 a

Part Detail

Revision	R
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGS145
Layout	37LYA001
Eff. date	11-05-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#14
Proprietary	False
Created date	08-03-2006

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	19.01 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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
	850 rpm
Speed Code	2S-1W-CT
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.	M1508T								
SPEC.	37A001S145								
HP	5/2.5								
VOLTS	208-230								
AMP	13/10.4								
RPM	1725/850								
FRAME	215T		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	TEFC	SN							

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 61404

Typical performance - not guaranteed values

Winding: 37WGS145-R003			Type: 3744M		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Speed Connection				
Rated Output (HP)		5/2.5	Full Load Torque		15 LB-FT		
Volts		208-230	Start Configuration		direct on line		
Full Load Amps		13/10.4	Breakdown Torque		43.4 LB-FT		
R.P.M.		1725/850	Pull-up Torque		25 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		36.6 LB-FT	
NEMA Design Code		B	KVA Code		K		
Service Factor (S.F.)		1.15	Starting Current		104 A		
NEMA Nom. Eff.		0	Power Factor		0		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		71°C
S.F. Amps					Temp. Rise @ S.F. Load		85°C
					Locked-rotor Power Factor		49.1

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	75	84	87	88	87	88
Efficiency	78.8	84.2	84.8	82.9	80.7	77.7	81.6
Speed	1784	1769	1753	1734	1712	1689	1721
Line amperes	5.4	7.44	9.88	12.9	16.2	20	14.9

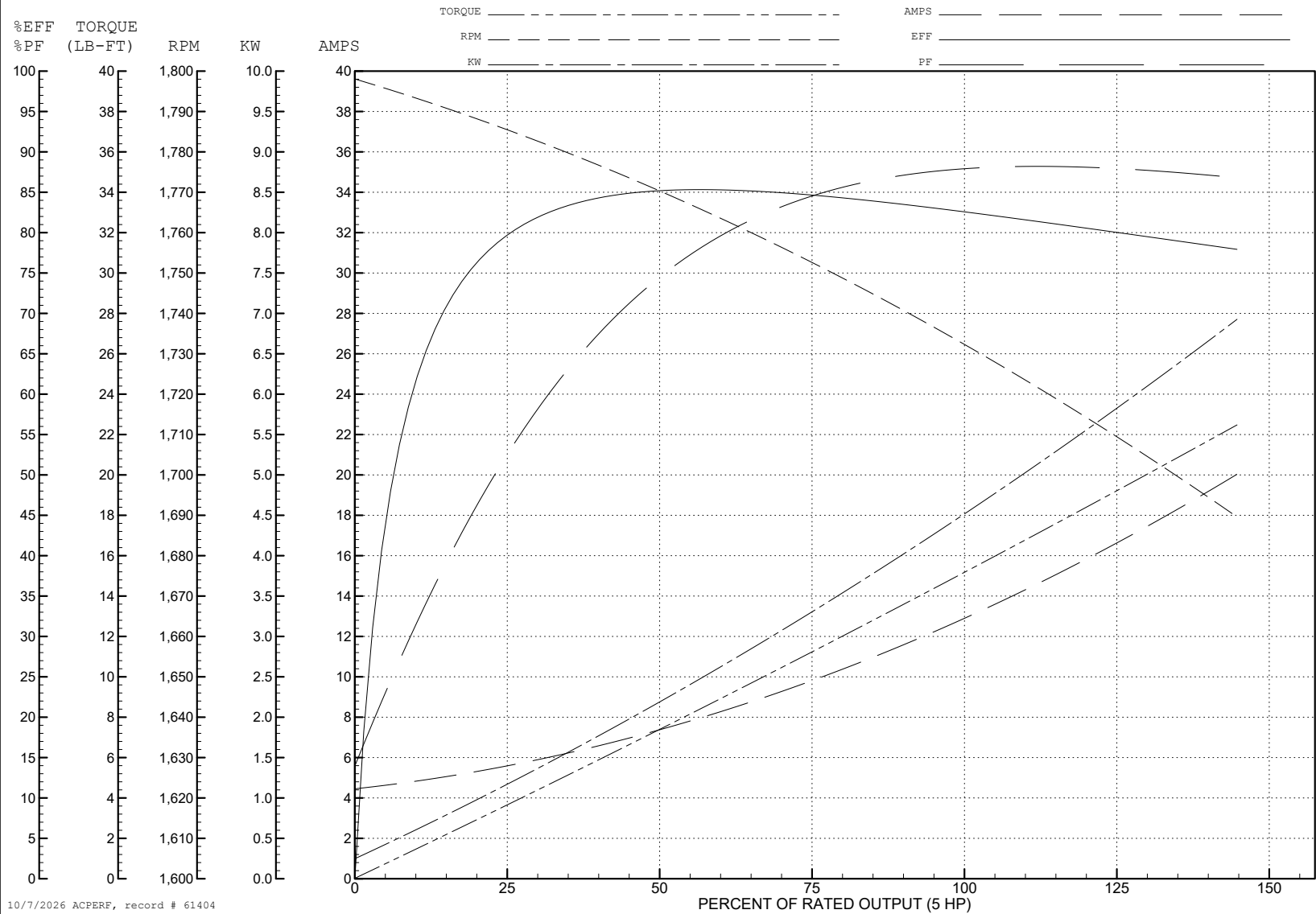
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WINDING # 37WGS145

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1734 RPM 230 V 3744M

TORQUES (LB-FT): PO=43.4 PU=25 LR=36.6 LRA=104



AC Induction Motor Performance Data

Record # 61405

Typical performance - not guaranteed values

Winding: 37WGS145-R003			Type: 3744M		Enclosure: TEFC		
Nameplate Data				230 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		5/2.5		Full Load Torque		15 LB-FT	
Volts		208-230		Start Configuration		direct on line	
Full Load Amps		13/10.4		Breakdown Torque		48.1 LB-FT	
R.P.M.		1725/850		Pull-up Torque		30.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		37.3 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		55.5 A
Service Factor (S.F.)		1.15		No-load Current		7.6 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		1.01 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		66°C	
S.F. Amps				Temp. Rise @ S.F. Load		74°C	
				Locked-rotor Power Factor		36.3	

Load Characteristics 230 V, 60 Hz, 2.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	39	50	58	63	67	61
Efficiency	61.1	73.9	78.2	79.1	78.9	77.5	79
Speed	891	884	875	866	857	845	861
Line amperes	7.61	8.22	9.05	10.1	11.5	13.1	10.9

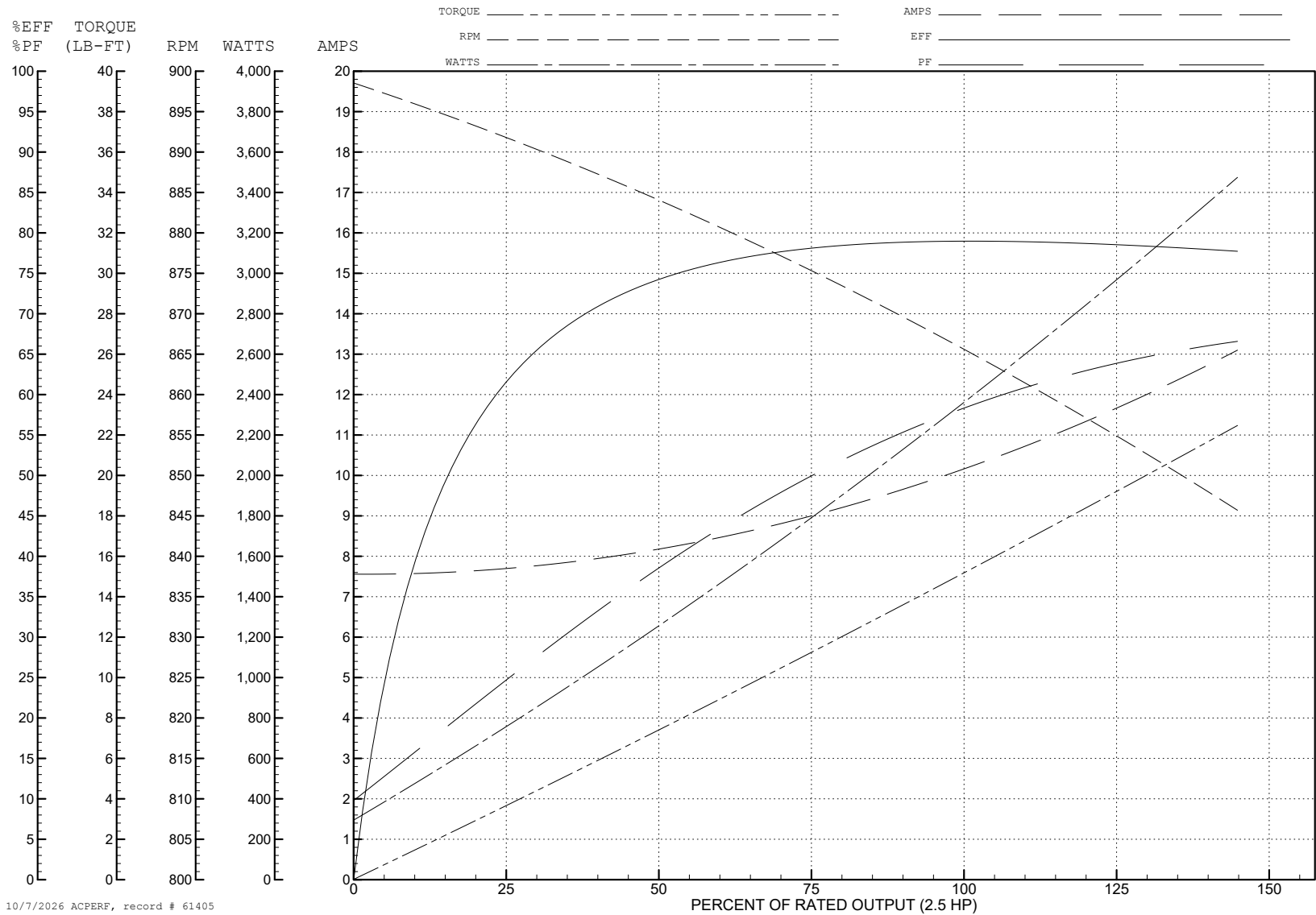
ABB Motors and Mechanical Inc.

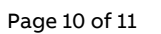
WINDING # 37WGS145

Typical performance - not guaranteed values.

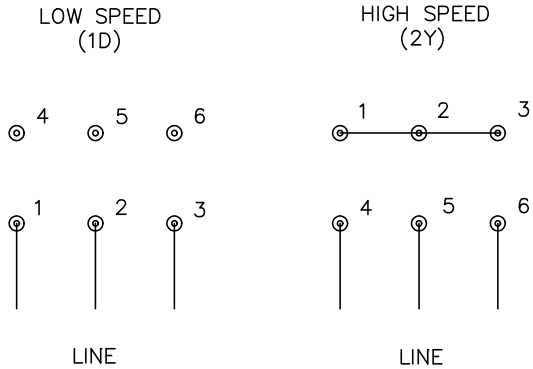
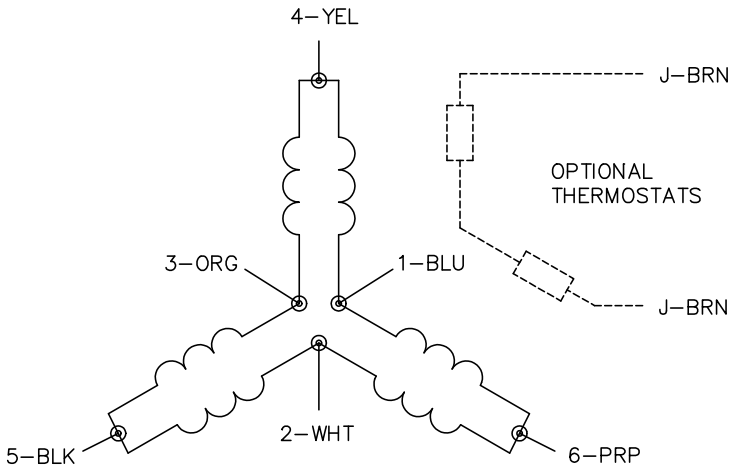
2.5 HP 3 PH 60 HZ 866 RPM 230 V 3744M

TORQUES (LB-FT): PO=48.1 PU=30.6 LR=37.3 LRA=55.5





CD0011



- 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: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
110000		FILE: DWG\142.wg	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

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

CD0011