

ABB BALDOR RELIANCE III

Customer information packet

WCL1508T

5HP, 1725RPM, 1PH, 60HZ, 213TCZ, 3727L, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213TCZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	27.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
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	27.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G

Part Detail

Revision	X
Type	AC
Mech. spec.	37K240
Base	
Status	PRD/A
Elec. spec.	37WGT912
Layout	37LYK240
Eff. date	05-13-2024
CD Diagram	CD0017A01
Poles	04
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	06-23-2006

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3727L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.25 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP1256L									
CAT.NO.	WCL1508T								
SPEC.	37K240T912								
HP	5								
VOLTS	230								
AMP	27								
RPM	1725								
FRAME	213TCZ		HZ	60			PH	1	
SER.F.	1.15		CODE	G	DES	L	CLASS	F	
NEMA-NOM-EFF	77		PF	78					
RATING	40C AMB-CONT								
CC									
DE	6309		ODE	6206					
ENCL	OPSB		SN						

AC Induction Motor Performance Data

Record # 61328

Typical performance - not guaranteed values

Winding: 37WGT912-R002			Type: 3727L		Enclosure: OPSB			
Nameplate Data			230 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		5	Full Load Torque		15.3 LB-FT			
Volts		230	Start Configuration		direct on line			
Full Load Amps		27	Breakdown Torque		43 LB-FT			
R.P.M.		1725	Pull-up Torque		30.8 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		46.9 LB-FT		
NEMA Design Code		L	KVA Code	G	Starting Current		132 A	
Service Factor (S.F.)		1.15		No-load Current		14.3 A		
NEMA Nom. Eff.		77	Power Factor		78	Line-line Res. @ 25°C		0.352 Ω A Ph 1.48 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C		
S.F. Amps				Temp. Rise @ S.F. Load		88°C		

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	71	78	81	82	80
Efficiency	71.1	79.4	78	77.1	74.1	67.1	75.3
Speed	1781	1766	1749	1728	1699	1653	1711
Line amperes	14.9	17.5	21.9	27.1	33.9	44.4	31.2

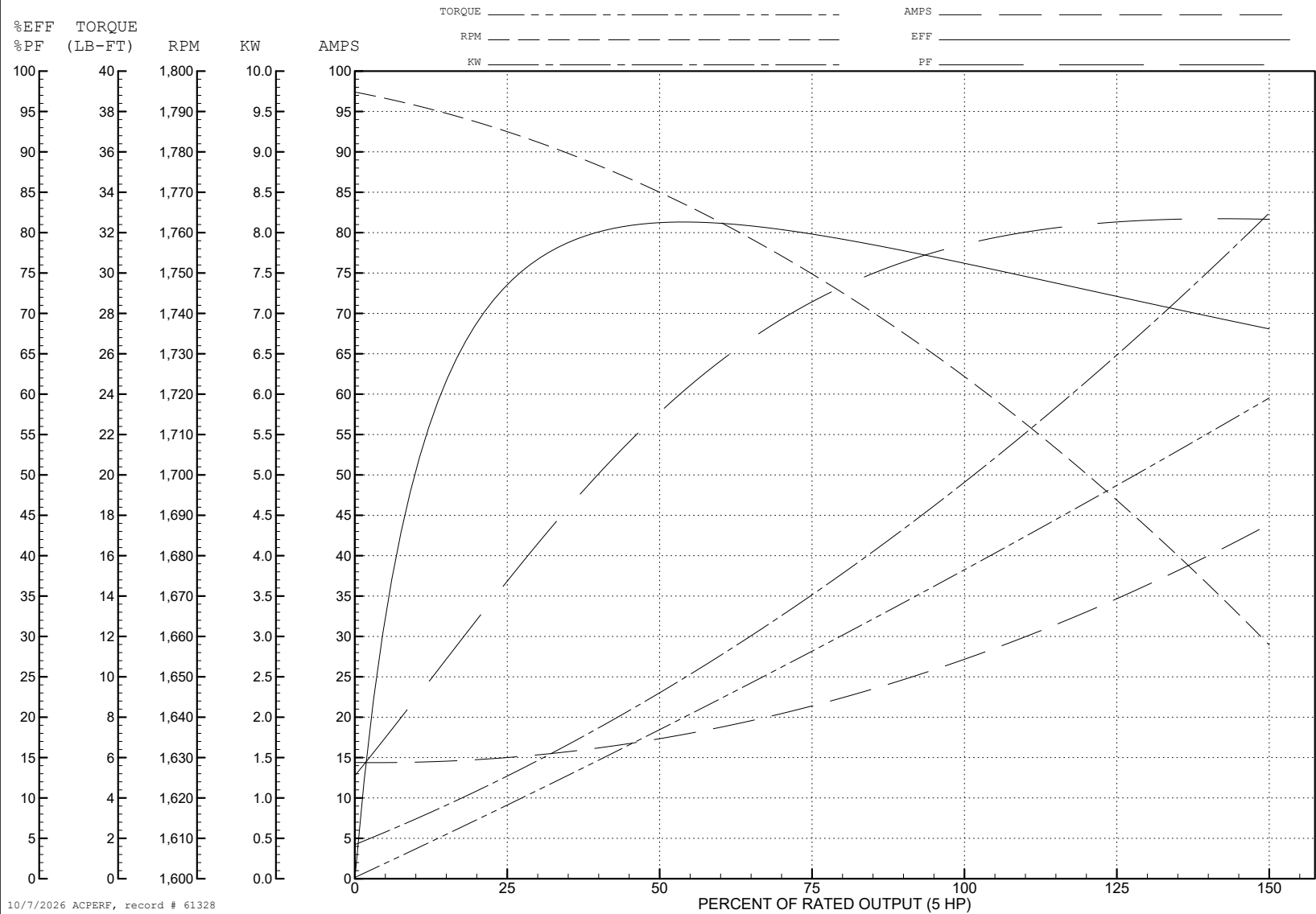
ABB Motors and Mechanical Inc.

WINDING # 37WGT912

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3727L

TORQUES (LB-FT): PO=43 PU=30.8 LR=46.9 LRA=132





CD0017A01

