

ABB BALDOR RELIANCE III

Customer information packet

VSPM3312T

10HP, 3500RPM, 3PH, 60HZ, 213TC, 3736M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM 4 WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.500 A @ 460.0 V 23.000 A @ 230.0 V 24.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a

Part Detail

Revision	C
Type	AC
Mech. spec.	37T654
Base	
Status	PRD/A
Elec. spec.	37WGT238
Layout	37LYT654
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-29-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3736M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.19 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP4423A01A01L														
CAT #	VSPM3312T					WGT	130	LBS						
SPEC	37T654T238					ENCL	OPSB							
SER #						CC	010A	IP	23					
HP	10					MAG CUR	6.8/3.4							
VOLTS	230/460					NEMA NOM. EFF							91.7	
AMPS	23/11.5					PF	90							
RATING	40C AMB-CONT													
RPM	3500					MAX RPM			5400					
FRAME	213TC	HZ	60		CODE	J	CLASS			F				
SER.F.	1.15	SF AMP	26/13				PH	3	DES	A				
DE	6307		ODE		6206									
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.329	CT	6	TO	60	10:1							
ID LOGO	SL HZ	1.7	VT	3	TO	60	20:1							

AC Induction Motor Performance Data

Record # 101129

Typical performance - not guaranteed values

Winding: 37WGT238-R015			Type: 3736M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		15 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		23/11.5	Breakdown Torque		82 LB-FT		
R.P.M.		3500	Pull-up Torque		28 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		38 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		98 A
Service Factor (S.F.)		1.15	No-load Current		3.4 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.786 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		23°C
S.F. Amps		26/13	Temp. Rise @ S.F. Load		29°C		
			Locked-rotor Power Factor		32.8		
			Rotor inertia		0.329 lb-ft²		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	86	89	90	88	87	89
Efficiency	85.6	90.9	92	91.8	91.1	90.1	91.4
Speed	3579	3557	3532	3507	3478	3448	3490
Line amperes	4.2	6.1	8.7	11.3	14.5	17.6	13.2

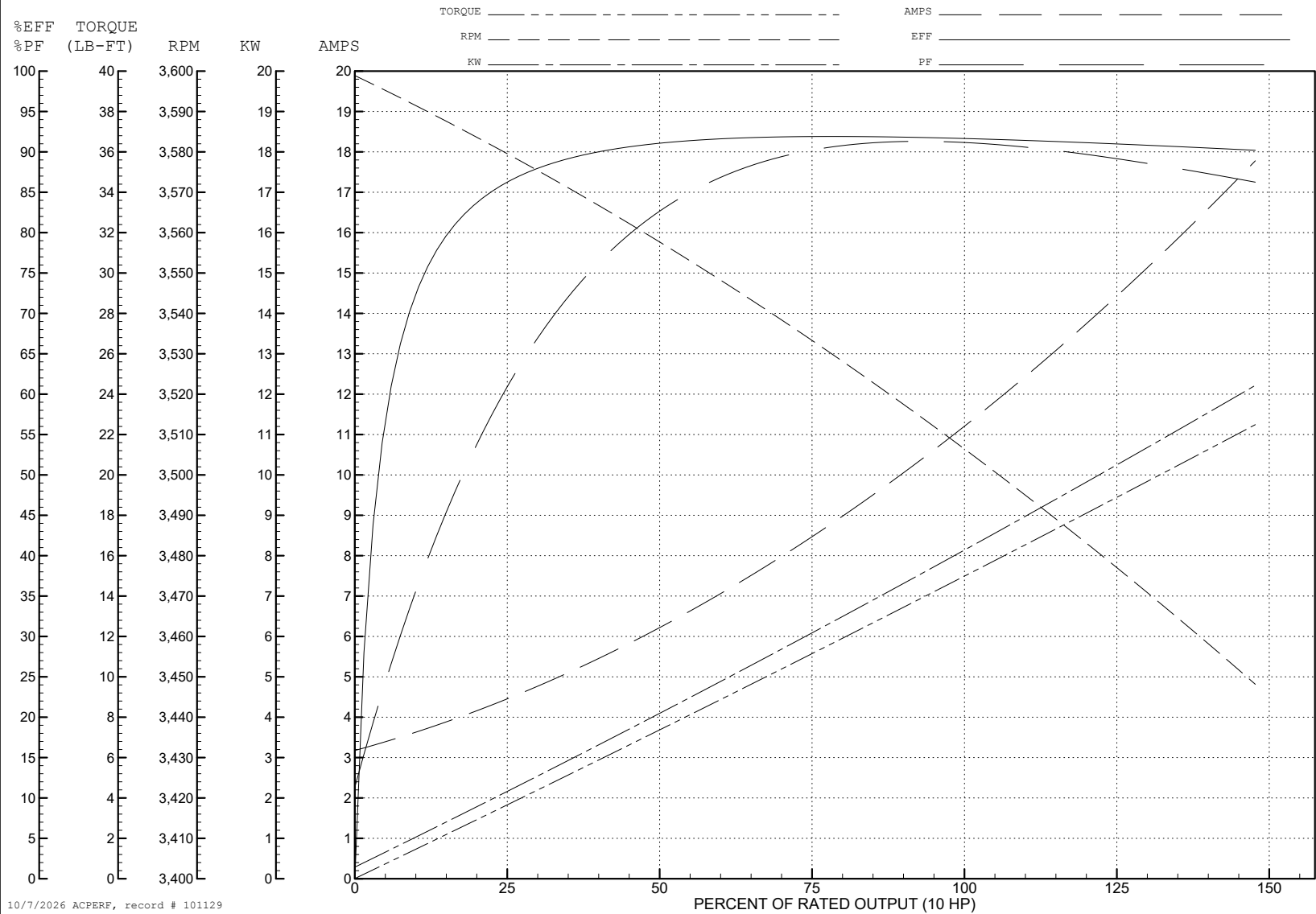
ABB Motors and Mechanical Inc.

WINDING # 37WGT238

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 460 V 3736M

TORQUES (LB-FT) : PO=82 PU=28 LR=38 LRA=98



REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 07:27:55 01/04/2024	TDR: 00000122299
MODEL NO. 37LYT654			REF: -
BY: USALMAZ			

VERT 213-5TC OPSB 37M, 'A64 NP

