

ABB BALDOR RELIANCE III

Customer information packet

SPJMM3613T-G

5HP, 3475RPM, 3PH, 60HZ, 184JM, 3640M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184JM
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
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE
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	11.000 A @ 230.0 V 5.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.5 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	A
Type	AC
Mech. spec.	36EE007
Base	
Status	PRD/A
Elec. spec.	36WGN051
Layout	36LYEE007
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	08-12-2025

KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.55 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3475 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 #	SPJMM3613T-G					WGT	94		LBS						
SPEC	36EE007N051					ENCL	TEFC								
SER #						CC	010A		IP	54					
HP	5		MAG CUR			3/1.5									
VOLTS	230/460					NEMA NOM. EFF					89.5				
AMPS	11/5.5					PF	94								
RATING	40C AMB-CONT														
RPM	3475					MAX RPM		5400							
FRAME	184JM		HZ	60		CODE	L		CLASS	H					
SER.F.	1.25		SF AMP	13.8/6.9			PH	3		DES	A				
DE	6207		ODE		6205										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE			VPWM		CHP	60		TO	90		1.5:1			
ID LOGO	WK2	0.18		CT	6		TO	60		10:1					
ID LOGO	SL HZ	2.1		VT	3		TO	60		20:1					
							QR								
YR															

AC Induction Motor Performance Data

Record # 112304

Preliminary Data Sheet

Winding: 36WGM001-R005			Type: 3648M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		8.92 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		6.6/3.3	Breakdown Torque		36.7 LB-FT		
R.P.M.		1175	Pull-up Torque		19.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		25.3 LB-FT	
NEMA Design Code		B	KVA Code		M		
Service Factor (S.F.)		1.15	Starting Current		24.9 A		
NEMA Nom. Eff.		89.5	Power Factor		64		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		32°C
S.F. Amps		7.2/3.6			Temp. Rise @ S.F. Load		37°C
					Locked-rotor Power Factor		27.9
					Rotor inertia		0.451 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	44	55	64	69	73	67
Efficiency	79.2	87	89	89.5	89.3	88.3	89.4
Speed	1196	1191	1184	1178	1170	1162	1173
Line amperes	2.23	2.49	2.84	3.28	3.79	4.38	3.59

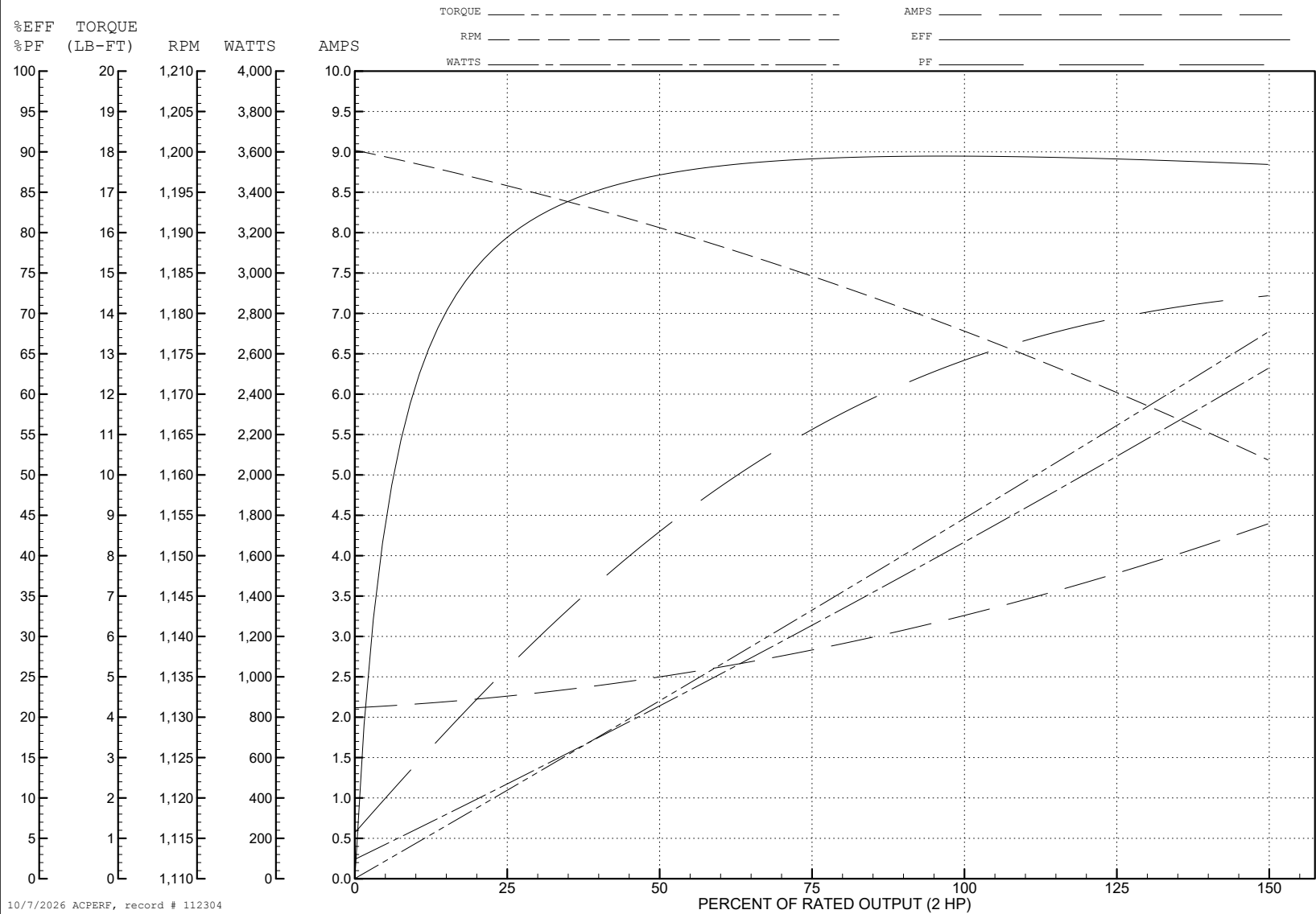
ABB Motors and Mechanical Inc.

WINDING # 36WGM001

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1175 RPM 460 V 3648M

TORQUES (LB-FT): PO=36.7 PU=19.4 LR=25.3 LRA=24.9



10/7/2026 ACPERF, record # 112304

