

ABB BALDOR RELIANCE III

Customer information packet

SPJPM3613T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184JP
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	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	36EE006
Base	
Status	PRD/A
Elec. spec.	36WGN051
Layout	36LYEE006
Eff. date	03-12-2026
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	22.61 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	No 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 #	SPJPM3613T					WGT	94	LBS								
SPEC	36EE006N051					ENCL	TEFC									
SER #						CC	010A	IP	54							
HP	5	MAG CUR				2.7-3/1.5//3/1.5										
VOLTS	208-230/460//190/380					NEMA NOM. EFF				88.5						
AMPS	12.2-11/5.5//13.4/6.7					PF	94									
RATING	40C AMB-CONT															
RPM	3475//2850					MAX RPM				5400						
FRAME	184JP	HZ	60//50		CODE	L	CLASS		H							
SER.F.	1.15	SF AMP	14.1-12.8/6.4//15.8/7.9										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 # 115512

Typical performance - not guaranteed values

Winding: 36WGN051-R025		Type: 3640M	Enclosure: TEFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	9.31 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	12.2-11/5.5//13.4/6.7	Breakdown Torque	41.5 LB-FT
R.P.M.	3475//2850	Pull-up Torque	29.6 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	34.4 LB-FT
NEMA Design Code	A KVA Code	Starting Current	59.6 A
Service Factor (S.F.)	1.15	No-load Current	1.52 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	1.98 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	78°C
S.F. Amps	14.1-12.8/6.4//15.8/7.9	Temp. Rise @ S.F. Load	100°C
		Locked-rotor Power Factor	48
		Rotor inertia	0.179 lb-ft ²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	72	87	92	95	95	95	95
Efficiency	88.6	90.8	90	89.1	86.6	84.1	87.6
Speed	2963	2929	2892	2853	2808	2758	2826
Line amperes	2.29	3.64	5.21	6.74	8.6	10.59	7.86

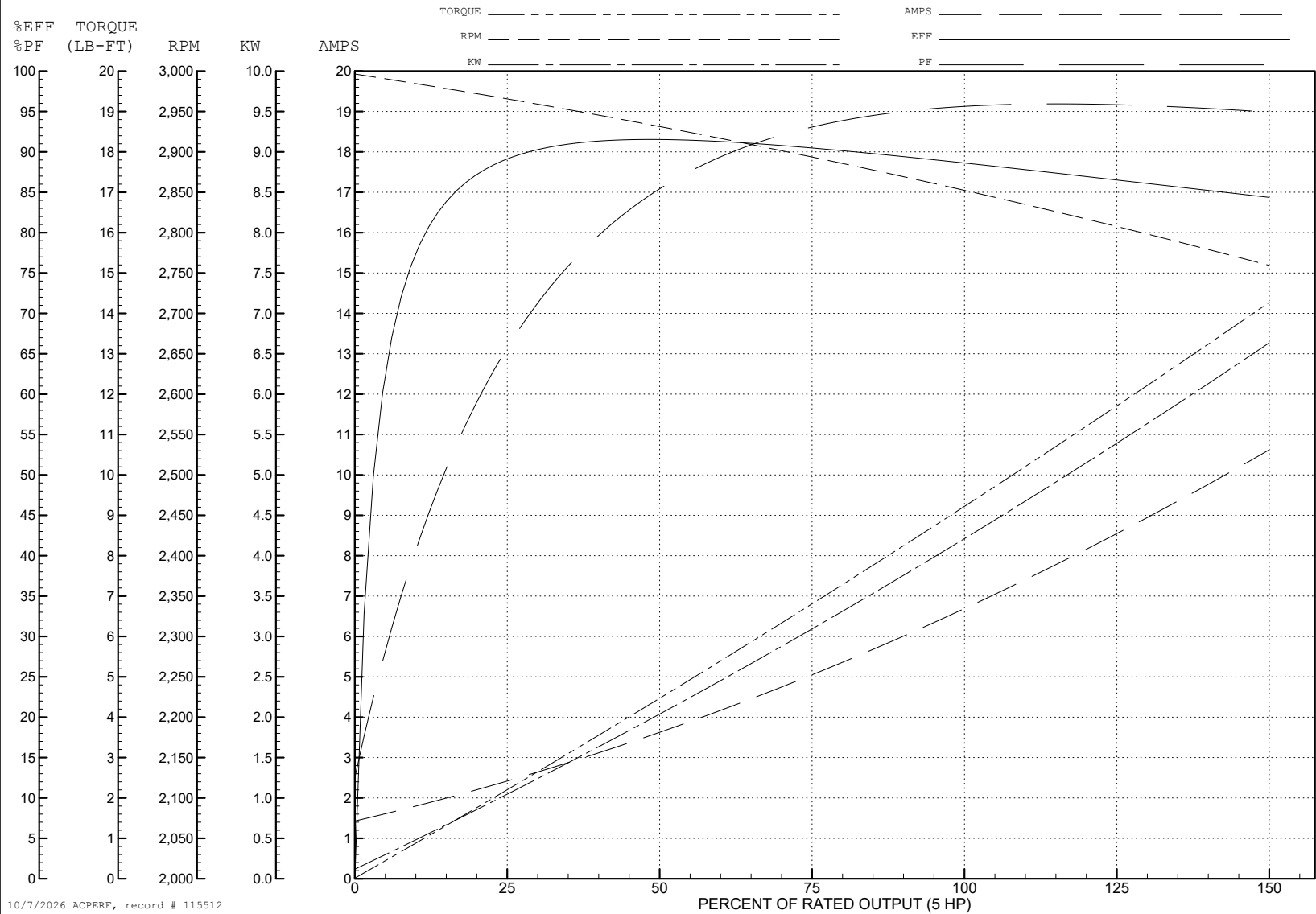
ABB Motors and Mechanical Inc.

WINDING # 36WGN051

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 2853 RPM 380 V 3640M

TORQUES (LB-FT) : PO=41.5 PU=29.6 LR=34.4 LRA=59.6



AC Induction Motor Performance Data

Record # 115513

Typical performance - not guaranteed values

Winding: 36WGN051-R025		Type: 3640M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	7.51 lb-ft
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	12.2-11/5.5//13.4/6.7	Breakdown Torque	43.9 lb-ft
R.P.M.	3475//2850	Pull-up Torque	27.5 lb-ft
Hz	60//50 Phase	Locked-rotor Torque	31.9 lb-ft
NEMA Design Code	A KVA Code	Starting Current	62.3 A
Service Factor (S.F.)	1.15	No-load Current	1.53 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	1.98 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	57°C
S.F. Amps	14.1-12.8/6.4//15.8/7.9	Temp. Rise @ S.F. Load	70°C
		Locked-rotor Power Factor	41.9
		Rotor inertia	0.179 lb-ft ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	71	86	91	94	94	95	94
Efficiency	77.1	85.1	87.5	88.2	88.1	87.6	88.1
Speed	3572	3549	3525	3499	3472	3443	3483
Line amperes	2.16	3.19	4.39	5.68	7.04	8.48	6.5

ABB Motors and Mechanical Inc.

WINDING # 36WGN051

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3499 RPM 460 V 3640M

TORQUES(lb-ft): PO=43.9 PU=27.5 LR=31.9 LRA=62.3

