

ABB BALDOR RELIANCE III

Customer information packet

SPJMM3615T

5HP, 1755RPM, 3PH, 60HZ, 184JM, 3648M, 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	1800 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	13.200 A @ 230.0 V 6.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	36EE008
Base	
Status	PRD/A
Elec. spec.	36WGZ629
Layout	36LYEE008
Eff. date	09-30-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-12-2025

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3648M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.99 IN
Power Factor	78
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	1755 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 #	SPJMM3615T					WGT	101	LBS					
SPEC	36EE008Z629					ENCL	TEFC						
SER #						CC	010A	IP	54				
HP	5					MAG CUR	6.4/3.2						
VOLTS	230/460					NEMA NOM. EFF					91		
AMPS	13.2/6.6						PF	78					
RATING	40C AMB-CONT												
RPM	1755					MAX RPM		2700					
FRAME	184JM	HZ	60		CODE		J	CLASS		F			
SER.F.	1.25	SF AMP	16.5/8.25					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	0.447	CT	6	TO		60	10:1					
ID LOGO	SL HZ	1.5	VT	3	TO		60	20:1					
							QR						
YR													

AC Induction Motor Performance Data

Record # 99131

Typical performance - not guaranteed values

Winding: 36WGZ629-R001			Type: 3648M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		14.97 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		13.2/6.6	Breakdown Torque		56.6 LB-FT		
R.P.M.		1755	Pull-up Torque		31.6 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		35.4 LB-FT		
NEMA Design Code		A	KVA Code		J	Starting Current	53.4 A
Service Factor (S.F.)		1.15	No-load Current		3.26 A		
NEMA Nom. Eff.		91	Power Factor		78	Line-line Res. @ 25°C	2.0924 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C
S.F. Amps		14.8/7.4	Temp. Rise @ S.F. Load		70°C		
			Locked-rotor Power Factor		38.4		
			Rotor inertia		0.447 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	72	79	82	84	81
Efficiency	85.9	90.6	91.4	91.1	90.3	89.1	90.6
Speed	1789.8	1780.2	1770.2	1758.9	1746.9	1733.6	1752
Line amperes	3.59	4.33	5.33	6.55	7.91	9.4	7.37

ABB Motors and Mechanical Inc.

WINDING # 36WGZ629

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1755 RPM 460 V 3648M

TORQUES (LB-FT) : PO=56.6 PU=31.6 LR=35.4 LRA=53.4





