

ABB BALDOR RELIANCE III

Customer information packet

SPM3311T-G

7.5HP, 1775RPM, 3PH, 60HZ, 213T, 3750M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213T
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	7.500 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 NEMA PREMIUM
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	10.000 A @ 460.0 V 20.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.0 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	37T743
Base	
Status	PRD/A
Elec. spec.	37WGZ670
Layout	37LYT743
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-03-2025

Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.20 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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 #	SPM3311T-G					WGT	158	LBS				
SPEC	37T743Z670					ENCL	OPSB					
SER #						CC	010A	IP	23			
HP	7.5	MAG CUR				9.8/4.9						
VOLTS	230/460					NEMA NOM. EFF					92.4	
AMPS	20/10						PF	78				
RATING	40C AMB-CONT											
RPM	1775					MAX RPM			2700			
FRAME	213T	HZ	60	CODE			L	CLASS		H		
SER.F.	1.25	SF AMP	23.8/11.9				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	1.18	CT	6	TO	60	10:1					
ID LOGO	SL HZ	0.8	VT	3	TO	60	20:1					
							QR					
YR												

AC Induction Motor Performance Data

Record # 112297

Typical performance - not guaranteed values

Winding: 37WGZ670-R004				Type: 3750M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		22.31 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		20/10		Breakdown Torque		84.6 LB-FT	
R.P.M.		1775		Pull-up Torque		42.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		54.6 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		88.8 A	
Service Factor (S.F.)		1.25		No-load Current		4.93 A	
NEMA Nom. Eff.		92.4	Power Factor	Line-line Res. @ 25°C		1.12 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		25°C	
S.F. Amps		23.8/11.9		Temp. Rise @ S.F. Load		33°C	
				Locked-rotor Power Factor		35.9	
				Rotor inertia		1.23 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	72	78	82	84	82
Efficiency	87.4	91.9	92.8	92.7	92.1	91.4	92.1
Speed	1794	1789	1783	1778	1772	1765	1772
Line amperes	5.39	6.48	7.98	9.73	11.7	13.8	11.7

ABB Motors and Mechanical Inc.

WINDING # 37WGZ670

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1775 RPM 460 V 3750M

TORQUES (LB-FT): PO=84.6 PU=42.8 LR=54.6 LRA=88.8





