

ABB BALDOR RELIANCE III

Customer information packet

SPM3211T-G

3HP, 1765RPM, 3PH, 60HZ, 182T, 3640M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182T
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	3.000 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 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	4.000 A @ 460.0 V 8.000 A @ 230.0 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	4.0 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	36P494
Base	
Status	PRD/A
Elec. spec.	36WGZ630
Layout	36LYP494
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-03-2025

Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Vertical 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	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.99 IN
Power Factor	77
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	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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 #	SPM3211T-G					WGT	92	LBS						
SPEC	36P494Z630					ENCL	OPSB							
SER #						CC	010A	IP	23					
HP	3					MAG CUR	4.6/2.3							
VOLTS	230/460					NEMA NOM. EFF				91				
AMPS	8/4					PF	77							
RATING	40C AMB-CONT													
RPM	1765					MAX RPM		2700						
FRAME	182T	HZ	60			CODE	K	CLASS	H					
SER.F.	1.25	SF AMP	9.8/4.9				PH	3	DES	B				
DE	6206		ODE		6205									
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.372	CT	6	TO	60	10:1							
ID LOGO	SL HZ	1.2	VT	3	TO	60	20:1							
							QR							
YR														

AC Induction Motor Performance Data

Record # 112302

Preliminary Data Sheet

Winding: 36WGZ630-R003			Type: 3640M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		8.98 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8/4	Breakdown Torque		38.7 LB-FT		
R.P.M.		1765	Pull-up Torque		19.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		23.8 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		34.1 A
Service Factor (S.F.)		1.25	No-load Current		2.29 A		
NEMA Nom. Eff.		91	Power Factor	77	Line-line Res. @ 25°C		3.28 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		20°C
S.F. Amps		9.8/4.9	Temp. Rise @ S.F. Load		26°C		
			Locked-rotor Power Factor		39.7		
			Rotor inertia		0.372 lb-ft²		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	55	68	75	80	82	80
Efficiency	85.3	90.4	91.5	91.4	90.9	90	90.9
Speed	1791	1784	1776	1768	1759	1749	1759
Line amperes	2.47	2.88	3.44	4.12	4.88	5.72	4.88

ABB Motors and Mechanical Inc.

WINDING # 36WGZ630

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1765 RPM 460 V 3640M

TORQUES (LB-FT): PO=38.7 PU=19.9 LR=23.8 LRA=34.1





