

ABB BALDOR RELIANCE III

Customer information packet

SPM3211T

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 4
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	D
Type	AC
Mech. spec.	36P391
Base	
Status	PRD/A
Elec. spec.	36WGZ630
Layout	36LYP391
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-07-2023

Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	No 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	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No 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					WGT	92		LBS						
SPEC	36P391Z630					ENCL	OPSB								
SER #						CC	010A		IP	22					
HP	3			MAG CUR			4.2/2.1								
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		F		
SER.F.	1.15		SF AMP		9/4.5			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 # 96360

Typical performance - not guaranteed values

Winding: 36WGZ630-R001			Type: 3640M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		9.01 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8/4	Breakdown Torque		39.5 LB-FT		
R.P.M.		1765	Pull-up Torque		13.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		22.8 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32.4 A
Service Factor (S.F.)		1.15	No-load Current		2.14 A		
NEMA Nom. Eff.		91	Power Factor	77	Line-line Res. @ 25°C		3.18 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		23°C
S.F. Amps		9/4.5	Temp. Rise @ S.F. Load		27°C		
			Locked-rotor Power Factor		39.2		
			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	36	58	70	77	81	83	79
Efficiency	84	90	91	91	90	89	90.4
Speed	1791	1783	1774	1764	1754	1744	1758
Line amperes	2.33	2.76	3.35	4.04	4.83	5.7	4.51

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=39.5 PU=13.4 LR=22.8 LRA=32.4





