

ABB BALDOR RELIANCE III

Customer information packet

SPM2506T

7.5HP, 1180RPM, 3PH, 60HZ, 254T, 3950M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM 4 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	22.000 A @ 230.0 V 26.000 A @ 208.0 V 11.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	39E761
Base	
Status	PRD/A
Elec. spec.	39WGW951
Layout	39LYE761
Eff. date	12-15-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	09-05-2023

High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3950M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	70
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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 #	SPM2506T					WGT	248	LBS				
SPEC	39E761W951					ENCL	OPSB					
SER #						CC	010A	IP	23			
HP	7.5	MAG CUR				11.4/5.7						
VOLTS	230/460					NEMA NOM. EFF					91.7	
AMPS	22/11						PF	70				
RATING	40C AMB-CONT											
RPM	1180					MAX RPM			1800			
FRAME	254T	HZ	60	CODE			J	CLASS		F		
SER.F.	1.25	SF AMP	26.4/13.2				PH	3	DES	B		
DE	6309		ODE		6208							
LUBRICATION	POLYREX EM											
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO		90	1.5:1	
ID LOGO	WK2	4.02	CT	6	TO	60	10:1					
ID LOGO	SL HZ	1	VT	3	TO	60	20:1					
							QR					
YR												

AC Induction Motor Performance Data

Record # 109538

Typical performance - not guaranteed values

Winding: 39WGW951-R008				Type: 3950M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		33.4 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		22/11		Breakdown Torque		98 LB-FT	
R.P.M.		1180		Pull-up Torque		37.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		50.7 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		68 A
Service Factor (S.F.)		1.25		No-load Current		5.73 A	
NEMA Nom. Eff.		91.7	Power Factor	70	Line-line Res. @ 25°C		0.927 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		17°C	
S.F. Amps		21.8/10.9		Temp. Rise @ S.F. Load		22°C	
				Locked-rotor Power Factor		25.1	
				Rotor inertia		4.02 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	64	70	73	73	73
Efficiency	84.6	90.3	91.5	91.7	91.3	90.4	91.3
Speed	1196	1192	1188	1183	1178	1172	1178
Line amperes	6.36	7.6	9.13	11.01	13.19	15.76	13.2

ABB Motors and Mechanical Inc.

WINDING # 39WGW951

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3950M

TORQUES (LB-FT): PO=98 PU=37.9 LR=50.7 LRA=68





