

ABB BALDOR RELIANCE III

Customer information packet

SPM3153T

.75HP, 1175RPM, 3PH, 60HZ, 143T, 3526M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	143T
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	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	1.400 A @ 460.0 V 2.800 A @ 230.0 V 3.500 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a

Part Detail

Revision	C
Type	AC
Mech. spec.	35E6247
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYE6247
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	11-14-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.13 IN
Power Factor	60
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 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 #	SPM3153T					WGT	41	LBS					
SPEC	35E6247G019					ENCL	OPSB						
SER #						CC	010A	IP	22				
HP	.75	MAG CUR				2/1							
VOLTS	230/460					NEMA NOM. EFF					82.5		
AMPS	2.8/1.4						PF	60					
RATING	40C AMB-CONT												
RPM	1175					MAX RPM			1800				
FRAME	143T	HZ	60		CODE	L	CLASS			F			
SER.F.	1.15	SF AMP	3/1.5				PH	3	DES	B			
DE	6205		ODE		6203								
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO		90	1.5:1	
ID LOGO	WK2	0.189	CT	6	TO	60	10:1						
ID LOGO	SL HZ	1.57	VT	3	TO	60	20:1						
							QR						
YR													

AC Induction Motor Performance Data

Record # 100853

Typical performance - not guaranteed values

Winding: 35WGG019-R018			Type: 3526M	Enclosure: ODP			
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		3.34 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.8/1.4	Breakdown Torque		11.9 LB-FT		
R.P.M.		1175	Pull-up Torque		7.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		8.6 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		9.1 A
Service Factor (S.F.)		1.15		No-load Current		1.02 A	
NEMA Nom. Eff.		82.5	Power Factor	60	Line-line Res. @ 25°C		21.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		29°C	
S.F. Amps		3/1.5		Temp. Rise @ S.F. Load		34°C	
				Locked-rotor Power Factor		48.3	
				Rotor inertia		0.189 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	39	51	60	66	71	64
Efficiency	68.1	78.7	81.8	82.8	82.2	80.9	82.4
Speed	1194	1189	1183	1176	1169	1161	1172
Line amperes	1.05	1.14	1.26	1.42	1.61	1.84	1.53

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1175 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.1 LR=8.6 LRA=9.1





