

ABB BALDOR RELIANCE III

Customer information packet

SPM31112

.75HP, 1735RPM, 3PH, 60HZ, 56H, 3436M, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	56H
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE C UR US
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	.950 A @ 460.0 V 1.900 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	34T123
Base	
Status	PRD/A
Elec. spec.	34WGR770
Layout	34LYT123
Eff. date	10-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-13-2023

Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3436M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.63 IN
Power Factor	87
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	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1735 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

NP4558A02LL												
CAT #	SPM31112			WGT	40		LBS					
SER #				ENCL	ODP							
SPEC	34T123R770			CC			IP	22				
HP	.75			NEMA NOM. EFF					84			
VOLTS	230/460			PF	87							
AMPS	1.9/0.95											
RATING	40C AMB-CONT											
RPM	1735			PH	3		DES	B				
FRAME	56H	HZ	60	CODE	N		CLASS	F				
SER.F.	1.15	SF AMP										
DE	6203	ODE	6203									
GREASE	POLYREX EM											

AC Induction Motor Performance Data

Record # 100805

Preliminary Data Sheet

Winding: 34WGR770-R003			Type: 3436M		Enclosure: ODP	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.75	Full Load Torque		2.29 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		1.9/0.95	Breakdown Torque		10.1 LB-FT	
R.P.M.		1735	Pull-up Torque		7.8 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		8.8 LB-FT	
NEMA Design Code		B KVA Code	N	Starting Current		9 A
Service Factor (S.F.)		1.15	No-load Current		0.49 A	
NEMA Nom. Eff.		84 Power Factor	87	Line-line Res. @ 25°C		15.4 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		24°C	
S.F. Amps			Temp. Rise @ S.F. Load		28°C	
			Locked-rotor Power Factor		46.4	
			Rotor inertia		0.0857 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	67	80	87	90	92	89
Efficiency	78.3	85.6	86.8	86.6	85.2	82.9	85.8
Speed	1783	1767	1751	1734	1713	1688	1721
Line amperes	0.53	0.62	0.77	0.94	1.16	1.43	1.07

ABB Motors and Mechanical Inc.

WINDING # 34WGR770

0.75 HP 3 PH 60 HZ 1735 RPM 460 V 3436M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=10.1 PU=7.8 LR=8.8 LRA=9



