

ABB BALDOR RELIANCE III

Customer information packet

VEJMM3311T

7.5HP, 1770RPM, 3PH, 60HZ, 213JM, 3734M, ODP, F

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	213JM
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	21.000 A @ 208.0 V 9.600 A @ 460.0 V 19.200 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	37N905
Base	
Status	PRD/A
Elec. spec.	37WGS186
Layout	37LYN905
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	07-18-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.75 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP3553LUA											
CAT.NO.	VEJMM3311T										
SPEC.	37N905S186G1										
HP	7.5										
VOLTS	230/460										
AMPS	19.2/9.6										
RPM	1770										
FRAME	213JM		HZ	60			PH	3			
SF	1.15	CODE	J	DES	A	CLASS	F				
NEMA NOM. EFF	91.7	PF	79								
RATING	40C AMB-CONT										
CC	010A										
ENCL	ODP	SN									
DE	6309		ODE	6206							
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											
USABLE AT	50Hz 7.5HP 190/380V 23/11.5A							SF1.0			

AC Induction Motor Performance Data

Record # 58175

Typical performance - not guaranteed values

Winding: 37WGS186-R014				Type: 3734M		Enclosure: ODP		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5		Full Load Torque		22.4 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		19.2/9.6		Breakdown Torque		77.9 LB-FT		
R.P.M.		1770		Pull-up Torque		38.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		46.1 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		71.8 A	
Service Factor (S.F.)		1.15		No-load Current		4.88 A		
NEMA Nom. Eff.		91.7	Power Factor	79	Line-line Res. @ 25°C		1.41 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		36°C
S.F. Amps						Temp. Rise @ S.F. Load		44°C
						Locked-rotor Power Factor		37.7
						Rotor inertia		0.836 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	61	72	78	81	83	81
Efficiency	85.4	90.4	91.7	91.5	90.7	89.8	91.7
Speed	1792	1785	1778	1769	1760	1749	1767
Line amperes	5.29	6.46	7.98	9.86	11.9	14.1	10.8

ABB Motors and Mechanical Inc.

WINDING # 37WGS186

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3734M

TORQUES (LB-FT): PO=77.9 PU=38.5 LR=46.1 LRA=71.8





