

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								

Parts List

Part number	Description	Quantity
SA324237	SA 37N905S186G1	1.000 ea
RA312067	RA 37N905S186G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP3203A01	A00 W/FH MTG	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA1104A01	RODENT SCREEN 37 FRAME 206 BRG FRONT END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3401A45	PUEP OPEN 309 BRG NO BAFFLE	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA1222	RODENT SCREEN - 37 C-FACE MOTORS	4.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37FH4000A47	DRIP COVER, W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea

85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A39	THRUBOLT-5/16-18 X 12.250	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3553LUA	ALUM SUPER-E VPWM INV READY UL CC NEMA P	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

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
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
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





