

ABB BALDOR RELIANCE III

Customer information packet

VESSWDM3611T

3HP, 1760RPM, 3PH, 60HZ, 182TC, 3636M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
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	4.200 A @ 460.0 V 8.400 A @ 230.0 V 8.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	36L747
Base	
Status	PRD/A
Elec. spec.	36WGS945
Layout	36LYL747
Eff. date	08-11-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-27-2015

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.32 IN
Power Factor	76
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP1953B01											
CAT.NO.	VESSWDM3611T										
SPEC.	36L747S945G1										
HP	3										
VOLTS	230/460										
AMP	8.4/4.2										
RPM	1760										
FRAME	182TC			HZ	60				PH	3	
SER.F.	1.15		CODE	K	DES	B		CLASS	F		
NEMA-NOM-EFF	89.5			PF	76						
RATING	40C AMB-CONT										
CC	010A				USABLE AT 208V				N/A		
DE	6206			ODE	6205						
ENCL	TEFC	SN									
	10:1CT 20:1VT										

Parts List

Part number	Description	Quantity
SA294514	SA 36L747S945G1	1.000 ea
RA280593	RA 36L747S945G1	1.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
36CB1003A01	CONDUIT BOX	1.000 ea
36GS1025	36 MOLDED GASKET W/LIP, LEAD SEAL, FOR	1.000 ea
10XN1032A08	10-32 X 1/2 HEX HD SCREW	2.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
36FE1907A01	FR EP ASSY W/EP FROM SOUTHERN TOOL STAIN	1.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE1908A03	PU ENDPLATE ASSY	1.000 ea
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 ea
HA1049A02	DUBO LOK WASHER SIZE 1/4 (NYLON LOCK SEA	4.000 ea
HA1049A02	DUBO LOK WASHER SIZE 1/4 (NYLON LOCK SEA	4.000 ea
36FH4011	WASHDOWN FAN COVER #304 STAINLESS W/NOTC	1.000 ea
10XN1032S06	HEX HD CAP SCREW, SS	3.000 ea
36CB4517	LIPPED CB LID #304 STAINLESS - CLEANED	1.000 ea
37GS3010SP	1/16"WHITE LID GASKET	1.000 ea
59XN0832S07	8/32 X 7/16 HX WS HD SER X	4.000 ea
HW4606A03	JM CLIPPER/SEAL (LWE-1156-1875-AL44)	1.000 ea
HW2502E16	#303 SS,SQ KEY 1/4 X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA3101S29	THRUBOLT- 1/4-20X13.00 SS	4.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea

PK3082	STYROFOAM CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data

Record # 39147

Typical performance - not guaranteed values

Winding: 36WGS945-R001			Type: 3636M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		9.04 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8.4/4.2	Breakdown Torque		34.81 LB-FT		
R.P.M.		1760	Pull-up Torque		18.62 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		21.9 LB-FT	
NEMA Design Code		B	KVA Code	K		Starting Current	34.1 A
Service Factor (S.F.)		1.15	No-load Current		2.25 A		
NEMA Nom. Eff.		89.5	Power Factor	76	Line-line Res. @ 25°C		3.58 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		62°C
S.F. Amps			Temp. Rise @ S.F. Load		74°C		
			Locked-rotor Power Factor		41		
			Rotor inertia		0.335 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	69	76	80	83	78
Efficiency	82.2	88.1	89.7	89.8	89.2	88.3	89.3
Speed	1790	1781	1772	1762	1751	1738	1755
Line amperes	2.45	2.86	3.46	4.17	4.95	5.83	4.65

ABB Motors and Mechanical Inc.

WINDING # 36WGS945

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 460 V 3636M

TORQUES (LB-FT) : PO=34.81 PU=18.62 LR=21.9 LRA=34.1





