

ABB BALDOR RELIANCE III

Customer information packet

VESSWDM3613T

5HP, 3480RPM, 3PH, 60HZ, 184TC, 3636M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 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	11.400 A @ 230.0 V 12.400 A @ 208.0 V 5.700 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	5.7 a

Part Detail

Revision	L
Type	AC
Mech. spec.	36L747
Base	
Status	PRD/A
Elec. spec.	36WGT873
Layout	36LYL747
Eff. date	07-15-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	02-27-2015

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
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	2
Overall Length	18.32 IN
Power Factor	91
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	3480 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.	VESSWDM3613T										
SPEC.	36L747T873G2										
HP	5										
VOLTS	230/460										
AMP	11.4/5.7										
RPM	3480										
FRAME	184TC			HZ	60			PH	3		
SER.F.	1.15	CODE	M	DES	A	CLASS	F				
NEMA-NOM-EFF	90.2		PF	91							
RATING	40C AMB-CONT										
CC	010A		USABLE AT 208V						N/A		
DE	6206		ODE	6205							
ENCL	TEFC	SN									
	4:1CT 20:1VT										

Parts List

Part number	Description	Quantity
SA294518	SA 36L747T873G2	1.000 ea
RA280597	RA 36L747T873G2	1.000 ea
34FN3002B02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	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 # 35750

Typical performance - not guaranteed values

Winding: 36WGT873-R003			Type: 3636M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		7.55 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		11.4/5.7	Breakdown Torque		50.4 LB-FT		
R.P.M.		3480	Pull-up Torque		27.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		38.1 LB-FT	
NEMA Design Code		A	KVA Code	M	Starting Current		69.6 A
Service Factor (S.F.)		1.15	No-load Current		2.11 A		
NEMA Nom. Eff.		90.2	Power Factor	91	Line-line Res. @ 25°C		1.87 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		82°C
S.F. Amps			Temp. Rise @ S.F. Load		99°C		
			Locked-rotor Power Factor		43		
			Rotor inertia		0.161 LB-FT2		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	76	87	91	93	94	92
Efficiency	83.4	88.9	90.4	90.4	89.7	88	90
Speed	3568	3541	3514	3484	3451	3417	3464
Line amperes	2.61	3.44	4.49	5.71	7.05	8.48	6.51

ABB Motors and Mechanical Inc.

WINDING # 36WGT873

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3480 RPM 460 V 3636M

TORQUES (LB-FT): PO=50.4 PU=27.1 LR=38.1 LRA=69.6





