

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										

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





