

ABB BALDOR RELIANCE III

Customer information packet

VZDNM3610T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 3640M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	182TC
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	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
Agency Approvals	CSA EEV NEMA PREMIUM 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	4.100 A @ 460.0 V 8.200 A @ 230.0 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36T622
Base	
Status	PRD/A
Elec. spec.	36WGS952
Layout	36LYT622
Eff. date	08-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-13-2025

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.28 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3943L									
CAT.NO.	VZDNM3610T								
SPEC.	36T622S952Z1								
FRAME	182TC			H.P.		3 TE			
VOLTS	230/460 ENCL TENV								
MAG. CUR.	4.2/2.1				F.L. AMPS			8.2/4.1	
R.P.M.	1755		R.P.M. MAX				2700		
HZ.	60		PH.		3		CLASS		H
SER.F.	1.00			SL HZ			1.5		
NEMA NOM. EFF.	89.5			WK2		0.372			
RATING	40C AMB-CONT								
DE	6206		ODE		6205				
CC	010A		SN						
	1000:1 CT 1.5:1 CHP								
	1.15 SF ON SINEWAVE								

AC Induction Motor Performance Data

Record # 108120

Typical performance - not guaranteed values

Winding: 36WGS952-R007			Type: 3640M		Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		9.1 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		8.2/4.1	Breakdown Torque		35 LB-FT	
R.P.M.		1755	Pull-up Torque		18.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	22.7 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	32.9 A	
Service Factor (S.F.)		1.15	No-load Current		2.09 A	
NEMA Nom. Eff.	89.5	Power Factor	78	Line-line Res. @ 25°C	3.33 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		74°C	
S.F. Amps			Temp. Rise @ S.F. Load		88°C	
			Locked-rotor Power Factor		39.3	
			Rotor inertia		0.372 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	71	78	82	84	80
Efficiency	83.6	89.2	90.4	90.3	89.5	88.7	89.8
Speed	1790	1780	1770	1759	1747	1733	1752
Line amperes	2.29	2.72	3.34	4.05	4.86	5.75	4.54

ABB Motors and Mechanical Inc.

WINDING # 36WGS952

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1755 RPM 460 V 3640M

TORQUES (LB-FT): PO=35 PU=18.8 LR=22.7 LRA=32.9





