

ABB BALDOR RELIANCE III

Customer information packet

IDVSWDM3611T

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
Agency Approvals	CSA 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	8.800 A @ 208.0 V 8.400 A @ 230.0 V 4.200 A @ 460.0 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

Part Detail

Revision	S
Type	AC
Mech. spec.	36K606
Base	
Status	PRD/A
Elec. spec.	36WGS945
Layout	36LYK606
Eff. date	08-11-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-13-2012

High Voltage Full Load Amps	4.2 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
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	18.06 IN
Power Factor	76
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP3956L									
CAT.NO.	IDVSWDM3611T								
SPEC.	36K606S945G1								
FRAME	182TC			H.P.	3 TE				
VOLTS	230/460								
MAG. CUR.	4.6/2.3			F.L. AMPS				8.4/4.2	
R.P.M.	1760			R.P.M. MAX			6000		
HZ.	60		PH.	3		CLASS		H	
SER.F.	1.00		DES.	B		SL HZ		1.3	
NEMA NOM. EFF.	89.5		WK2	0.372					
BLWR V	PH		HZ		AMPS				
RATING	40C AMB-CONT								
DE BRG	6206		ODE BRG			6205			
CC	010A		SN						

AC Induction Motor Performance Data

Record # 39148

Typical performance - not guaranteed values

Winding: 36WGS945-R002			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	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	
					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
Power Factor	36	56	69	76	80	83
Efficiency	82.2	88.1	89.7	89.8	89.2	88.3
Speed	1790	1781	1772	1762	1751	1738
Line amperes	2.45	2.86	3.46	4.17	4.95	5.83

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





