

ABB BALDOR RELIANCE III

Customer information packet

IDVSWDM3615T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 3646M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	13.000 A @ 230.0 V 6.500 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
High Voltage Full Load Amps	6.5 a

Part Detail

Revision	Q
Type	AC
Mech. spec.	36K606
Base	
Status	PRD/A
Elec. spec.	36WGS719
Layout	36LYK606
Eff. date	09-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-04-2012

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
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	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.06 IN
Power Factor	81
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	1750 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.	IDVSWDM3615T								
SPEC.	36K606S719G1								
FRAME	184TC	H.P.		5 TE					
VOLTS	230/460								
MAG. CUR.	5.8/2.9		F.L. AMPS					13/6.5	
R.P.M.	1750	R.P.M. MAX			6000				
HZ.	60	PH.	3	CLASS			H		
SER.F.	1.00	DES.	B	SL HZ			1.7		
NEMA NOM. EFF.	89.5	WK2	0.428						
BLWR V	PH	HZ	AMPS						
RATING	40C AMB-CONT								
DE BRG	6206	ODE BRG		6205					
CC	010A	SN							

AC Induction Motor Performance Data

Record # 38663

Typical performance - not guaranteed values

Winding: 36WGS719-R002			Type: 3646M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		15.2 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		13/6.5	Breakdown Torque		49.7 LB-FT		
R.P.M.		1750	Pull-up Torque		27.7 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		32.3 LB-FT		
NEMA Design Code		B	KVA Code		J	Starting Current	48.3 A
Service Factor (S.F.)		1	No-load Current		2.91 A		
NEMA Nom. Eff.		89.5	Power Factor		81	Line-line Res. @ 25°C	2.32 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		87°C		
S.F. Amps			Temp. Rise @ S.F. Load		107°C		
			Locked-rotor Power Factor		39		
			Rotor inertia		0.428 LB-FT2		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	64	75	81	83	84
Efficiency	86.7	90.5	90.8	90.1	88.4	86.6
Speed	1788	1776	1763	1748	1732	1714
Line amperes	3.27	4.1	5.2	6.49	8.02	9.69

ABB Motors and Mechanical Inc.

WINDING # 36WGS719

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

TORQUES (LB-FT) : PO=49.7 PU=27.7 LR=32.3 LRA=48.3





