

ABB BALDOR RELIANCE III

Customer information packet

ZDWNM3609T

2HP, 1760RPM, 3PH, 60HZ, 182TC, 3628M, 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	2.000 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.900 A @ 460.0 V 5.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a

Part Detail

Revision	C
Type	AC
Mech. spec.	36J562
Base	
Status	PRD/A
Elec. spec.	36WGR049
Layout	36LYJ562
Eff. date	09-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-23-2016

Insulation Class	H
Inverter Code	Inverter Duty
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	3628M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.77 IN
Power Factor	73
Product Family	Wash Down
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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

NP1609L									
CAT NO	ZDWNM3609T								
SPEC.	36J562R049Z1								
FRAME	182TC			HP	2 TE				
VOLTS	230/460								
MAG CUR	3.4/1.7			FLA		5.8/2.9			
RPM	1760		RPM MAX			6000			
HZ	60		PH	3	CLASS			H	
SER.F.	1.00		DES	B	SL HZ			1.3	
NEMA-NOM-EFF	88.5		WK2	0.26					
BLWR V	PH		HZ		A				
RATING	40C AMB-CONT								
DE BRG	6206		ODE BRG			6205			
CC	010A		SER.NO						

AC Induction Motor Performance Data

Record # 57979

Typical performance - not guaranteed values

Winding: 36WGR049-R002			Type: 3628M		Enclosure: TENV		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2		Full Load Torque		5.98 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		5.8/2.9		Breakdown Torque		23.2 LB-FT	
R.P.M.		1760		Pull-up Torque		13.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		14.9 LB-FT	
NEMA Design Code		B	KVA Code	K		Starting Current	22.3 A
Service Factor (S.F.)		1		No-load Current		1.7 A	
NEMA Nom. Eff.		88.5	Power Factor	73		Line-line Res. @ 25°C	5.6879 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C	
				Locked-rotor Power Factor		43.2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	53	65	73	78	81
Efficiency	79.9	86.9	88.7	89	88.5	87.7
Speed	1790.3	1781.4	1772.5	1762	1751	1739
Line amperes	1.82	2.08	2.43	2.88	3.4	3.96

ABB Motors and Mechanical Inc.

WINDING # 36WGR049

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3628M

TORQUES (LB-FT): PO=23.2 PU=13.2 LR=14.9 LRA=22.3





