

ABB BALDOR RELIANCE III

Customer information packet

VM3607

1.5HP, 1165RPM, 3PH, 60HZ, 184C, 3628M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184C
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 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	5.100 A @ 208.0 V 5.000 A @ 230.0 V 2.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	E
Type	AC
Mech. spec.	36A013
Base	
Status	NLA/A
Elec. spec.	36WGS951
Layout	36LYA013
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	08-06-2012

Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3628M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.68 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP1256L									
CAT.NO.									
SPEC.	36A013S951H1								
HP	1.5								
VOLTS	208-230/460								
AMP	5.1-5/2.5								
RPM	1165								
FRAME	184C		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA-NOM-EFF	85.5	PF	67						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 39554

Typical performance - not guaranteed values

Winding: 36WGS951-R001			Type: 3628M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		6.8 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		5.1-5/2.5	Breakdown Torque		22.2 LB-FT	
R.P.M.		1165	Pull-up Torque		10.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		14 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		15.7 A
Service Factor (S.F.)		1.15	No-load Current		1.51 A	
NEMA Nom. Eff.		85.5	Power Factor	Line-line Res. @ 25°C		8.7809 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		43°C
S.F. Amps				Temp. Rise @ S.F. Load		51°C
				Locked-rotor Power Factor		34
				Rotor inertia		0.263 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	47	59	67	72	75	70
Efficiency	76	83.7	85.8	85.9	85	83.6	85.4
Speed	1192.3	1185.3	1177.3	1168.7	1158.4	1147.1	1163
Line amperes	1.59	1.8	2.1	2.47	2.91	3.39	2.73

ABB Motors and Mechanical Inc.

WINDING # 36WGS951

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1165 RPM 460 V 3628M

TORQUES (LB-FT): PO=22.2 PU=10.8 LR=14 LRA=15.7



