

ABB BALDOR RELIANCE III

Customer information packet

VM3707

5HP, 1745RPM, 3PH, 60HZ, 215C, 3634M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215C
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	6.800 A @ 460.0 V 14.200 A @ 208.0 V 13.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
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.	36F850
Base	
Status	NLA/A
Elec. spec.	36WGS543
Layout	36LYF850
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-27-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	6.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
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	3634M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.67 IN
Power Factor	78
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1745 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.	36F850S543H1								
HP	5								
VOLTS	208-230/460								
AMP	14.2-13.6/6.8								
RPM	1745								
FRAME	215C		HZ		60		PH		3
SER.F.	1.15	CODE		J	DES	A	CLASS		F
NEMA-NOM-EFF	87.5	PF		78					
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE		6205				
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 32154

Typical performance - not guaranteed values

Winding: 36WGS543-R001			Type: 3634M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		15 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		14.2-13.6/6.8	Breakdown Torque		53.2 LB-FT	
R.P.M.		1745	Pull-up Torque		29.2 LB-FT	
Hz	60	Phase	Locked-rotor Torque		34.7 LB-FT	
NEMA Design Code		A	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		48.4 A	
NEMA Nom. Eff.		87.5	Power Factor		78	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	72	78	82	83	80
Efficiency	80.9	87.1	88.3	87.8	86.6	84.7	87.1
Speed	1788.2	1775.7	1761.9	1747.1	1729.5	1710.5	1737
Line amperes	3.77	4.5	5.5	6.83	8.24	9.97	7.68

ABB Motors and Mechanical Inc.

WINDING # 36WGS543

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1745 RPM 460 V 3634M

TORQUES (LB-FT) : PO=53.2 PU=29.2 LR=34.7 LRA=48.4





