

ABB BALDOR RELIANCE III

Customer information packet

RM3157

2HP, 1740RPM, 3PH, 60HZ, 56H, 3521M, OPEN, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56H
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	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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.700 A @ 208.0 V 6.140 A @ 230.0 V 3.070 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	35F883
Base	
Status	NLA/A
Elec. spec.	35WGP803
Layout	35LYF883
Eff. date	01-23-2015
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	07-13-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3521M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.42 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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.	RM3157										
SPEC.	35F883P803G1										
HP	2										
VOLTS	208-230/460										
AMP	6.7-6.14/3.07										
RPM	1740										
FRAME	56H		HZ	60				PH	3		
SER.F.	1.15		CODE	L	DES	B		CLASS	B		
NEMA-NOM-EFF	80		PF	75							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN		SN								

AC Induction Motor Performance Data

Record # 26939

Typical performance - not guaranteed values

Winding: 35WGP803-R001			Type: 3522M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		6 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		6.7-6.14/3.07	Breakdown Torque		22.59 LB-FT	
R.P.M.		1740	Pull-up Torque		14.43 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		17.89 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		23.23 A	
Service Factor (S.F.)		1.15	No-load Current		2.07 A	
NEMA Nom. Eff.		80 Power Factor	Line-line Res. @ 25°C		8.85 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		58°C	
S.F. Amps			Temp. Rise @ S.F. Load		67°C	
			Locked-rotor Power Factor		64.8	
			Rotor inertia		0.13 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	65	75	81	85	79
Efficiency	65.5	76.3	80.4	81.4	80.7	79	80.7
Speed	1786	1773	1759	1743	1724	1702	1730
Line amperes	2.12	2.34	2.64	3.07	3.58	4.18	3.38

ABB Motors and Mechanical Inc.

WINDING # 35WGP803

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1740 RPM 460 V 3522M

TORQUES (LB-FT) : PO=22.59 PU=14.43 LR=17.89 LRA=23.23





