

ABB BALDOR RELIANCE III

Customer information packet

EMM2333

11KW, 1765RPM, 3PH, 60HZ, D160M, 0944M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D160M
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	11.000 KW @ 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	CSA UR
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	18.100 A @ 460.0 V 36.200 A @ 230.0 V 38.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	09F285
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYF285
Eff. date	06-20-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	0944M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	23.63 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.654 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

NP1159L									
CAT.NO.	EMM2333								
SPEC.	09F285T597G1								
IEC FRAME	D160M		KW		11				
VOLTS	230/460								
AMP	36.2/18.1								
RPM	1765				ENCL			TEFC	
HZ	60		PH		3		CL		F
SER.F.	1.15		DES		A		CODE		H
NEMA-NOM-EFF	92.4		I.P.		54				
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE		6208				
SER. #									

AC Induction Motor Performance Data

Record # 85505

Typical performance - not guaranteed values

Winding: 37WGR177-R007			Type: 3734M		Enclosure: TENV			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		14.76 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		12.4/6.2	Breakdown Torque		47.48 LB-FT			
R.P.M.		1770	Pull-up Torque		22.38 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		28.3 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		49.16 A	
Service Factor (S.F.)		1	No-load Current		2.83 A			
NEMA Nom. Eff.		89.5	Power Factor		82	Line-line Res. @ 25°C		2.12 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		56°C	
				Locked-rotor Power Factor		37.5		
				Rotor inertia		0.836 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	41	64	77	83	85	85
Efficiency	86.4	90.8	91.4	91.3	90.7	89.3
Speed	1793	1787	1779	1772	1762	1753
Line amperes	3.28	3.99	5	6.18	7.6	9.19

ABB Motors and Mechanical Inc.

WINDING # 37WGR177

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1770 RPM 460 V 3734M

TORQUES (LB-FT) : PO=47.48 PU=22.38 LR=28.3 LRA=49.16





