

ABB BALDOR RELIANCE III

Customer information packet

EJMM3313T-G

10HP, 1770RPM, 3PH, 60HZ, 215JM, 3742M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	215JM
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	10.000 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 CSA EEV
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	25.000 A @ 230.0 V 12.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	W
Type	AC
Mech. spec.	37M556
Base	
Status	PRD/A
Elec. spec.	37WGT853
Layout	37LYM556
Eff. date	07-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	12-15-2010

High Voltage Full Load Amps	12.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.31 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP3553LUA									
CAT.NO.	EJMM3313T-G								
SPEC.	37M556T853G1								
HP	10								
VOLTS	230/460								
AMPS	25/12.5								
RPM	1770								
FRAME	215JM		HZ	60			PH	3	
SF	1.15	CODE	H	DES	B	CLASS	H		
NEMA NOM. EFF	91.7	PF	82						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6309		ODE	6206					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 7.5HP 190/380V 23.2/11.6A							SF1.0	

AC Induction Motor Performance Data

Record # 35789

Typical performance - not guaranteed values

Winding: 37WGT853-R003			Type: 3742M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		10		Full Load Torque		29.7 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		25/12.5		Breakdown Torque		87.58 LB-FT
R.P.M.		1770		Pull-up Torque		44.18 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		51.57 LB-FT
NEMA Design Code		B	KVA Code	H	Starting Current	
Service Factor (S.F.)		1.15		No-load Current		4.91 A
NEMA Nom. Eff.		91.7	Power Factor	82	Line-line Res. @ 25°C	
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, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	80	84	86	86	83
Efficiency	87.7	91.8	92.2	91.7	90.8	89.5	91.3
Speed	1793	1785	1777	1769	1759	1749	1763
Line amperes	5.6	7.31	9.53	12.15	15	18.24	14.2

ABB Motors and Mechanical Inc.

WINDING # 37WGT853

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3742M

TORQUES (LB-FT) : PO=87.58 PU=44.18 LR=51.57 LRA=86.72



