

ABB BALDOR RELIANCE III

Customer information packet

EGDM3311T

7.5HP, 1770RPM, 3PH, 60HZ, 213TZ, 3734M, OPSB

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213TZ
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM UR CSA
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	9.800 A @ 460.0 V 20.600 A @ 208.0 V 19.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	C
Type	AC
Mech. spec.	37N688
Base	
Status	PRD/A
Elec. spec.	37WGL863
Layout	37LYN688
Eff. date	11-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-28-2021

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.32 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3126L									
CAT.NO.	EGDM3311T								
SPEC.	37N688L863G1								
HP	7.5								
VOLTS	208-230/460								
AMP	20.6/19.6/9.8								
RPM	1770								
FRAME	213TZ		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	A	CL	F		
NEMA-NOM-EFF	91	PF	79						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6206					
ENCL	OPSB	SN							

AC Induction Motor Performance Data

Record # 86442

Preliminary Data Sheet

Winding: 37WGL863-R003			Type: 3734M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		22.2 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		20.6-19.6/9.8	Breakdown Torque		74.8 LB-FT		
R.P.M.		1770	Pull-up Torque		37.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		45.4 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		72 A
Service Factor (S.F.)		1.15		No-load Current		4.87 A	
NEMA Nom. Eff.		91	Power Factor	79	Line-line Res. @ 25°C		1.67 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		35°C	
S.F. Amps				Temp. Rise @ S.F. Load		47°C	
				Locked-rotor Power Factor		45.8	
				Rotor inertia		0.836 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	73	79	82	83	81
Efficiency	85	90.1	91.1	90.9	90.1	89	90.3
Speed	1793	1786	1779	1772	1764	1755	1766
Line amperes	5.34	6.47	7.99	9.87	11.9	14.2	11.1

ABB Motors and Mechanical Inc.

WINDING # 37WGL863

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=74.8 PU=37.1 LR=45.4 LRA=72





