

ABB BALDOR RELIANCE III

Customer information packet

EBM3311T

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3734M, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	213T
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 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	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
Front Shaft Indicator	None

Part Detail

Revision	F
Type	AC
Mech. spec.	37B021
Base	
Status	PRD/A
Elec. spec.	37WGL863
Layout	37LYB021
Eff. date	09-05-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-29-2021

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	24.45 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1259L										
CAT.NO.	EBM3311T									
SPEC.	37B021L863G1									
HP	7.5									
VOLTS	230/460									
AMP	19.6/9.8									
RPM	1770									
FRAME	213T		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	6306						
ENCL	OPEN	SN								
	SFA 22.18/11.09									

AC Induction Motor Performance Data

Record # 85452

Preliminary Data Sheet

Winding: 37WGL863-R001			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		230/460	Start Configuration		direct on line	
Full Load Amps		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	Starting Current		72 A	
Service Factor (S.F.)		1.15	No-load Current		4.87 A	
NEMA Nom. Eff.		91 Power Factor	Line-line Res. @ 25°C		1.67 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		35°C	
S.F. Amps		22.0/11.0	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





