

ABB BALDOR RELIANCE III

Customer information packet

EM3711T-G

10HP, 3490RPM, 3PH, 60HZ, 215T, 3728M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
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	12.000 A @ 460.0 V 24.100 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	H

Part Detail

Revision	-
Type	AC
Mech. spec.	37J838
Base	
Status	PRD/A
Elec. spec.	37WGZ712
Layout	37LYJ838
Eff. date	11-24-2025
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-07-2025

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 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

NP3441LUA									
CAT.NO.	EM3711T-G								
SPEC	37J838Z712G1								
HP	10								
VOLTS	230/460								
AMPS	24.1/12								
RPM	3490								
FRAME	215T		HZ	60			PH	3	
SF	1.15		CODE	G	DES	B	CLASS	H	
NEMA NOM. EFF	90.2		PF	85					
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC		SER						
DE	6307		ODE	6206					
VPWM INVERTER READY			SFA 27.6/13.8						
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 10HP 190/380V 28.2/14.1A							SF1.0	

AC Induction Motor Performance Data

Record # 115764

Typical performance - not guaranteed values

Winding: 37WGZ712-R001			Type: 3728M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		15 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		24.1/12		Breakdown Torque		58.7 LB-FT	
R.P.M.		3490		Pull-up Torque		24.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		27.4 LB-FT	
NEMA Design Code		B	KVA Code	G		Starting Current	77.5 A
Service Factor (S.F.)		1.15		No-load Current		4.12 A	
NEMA Nom. Eff.		90.2	Power Factor	85		Line-line Res. @ 25°C	1.0708 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		81°C	
S.F. Amps		27.6/13.8		Temp. Rise @ S.F. Load		104°C	
				Locked-rotor Power Factor		34.2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	75	83	87	88	89	88
Efficiency	88.3	91.6	91.6	90.6	89	87.1	89.6
Speed	3572.3	3544.9	3515.4	3482.5	3445.4	3404.5	3460
Line amperes	4.96	6.75	9.13	11.8	14.8	18.1	13.6

ABB Motors and Mechanical Inc.

WINDING # 37WGZ712

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3728M

TORQUES (LB-FT) : PO=58.7 PU=24.8 LR=27.4 LRA=77.5



