

ABB BALDOR RELIANCE III

Customer information packet

EFM3711T-G

10HP, 3490RPM, 3PH, 60HZ, 215T, 3730M, TEFC, F2

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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	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	23.200 A @ 230.0 V 24.900 A @ 208.0 V 11.600 A @ 460.0 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

Part Detail

Revision	B
Type	AC
Mech. spec.	37M820
Base	
Status	PRD/A
Elec. spec.	37WGS864
Layout	37LYM820
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	03-31-2023

High Voltage Full Load Amps	11.6 a
Insulation Class	H
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	3730M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	17.89 IN
Power Factor	88
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.	EFM3711T-G								
SPEC	37M820S864								
HP	10								
VOLTS	230/460								
AMPS	23.2/11.6								
RPM	3490								
FRAME	215T		HZ	60		PH	3		
SF	1.15	CODE	G	DES	B	CLASS	H		
NEMA NOM. EFF	90.2	PF	88						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6307		ODE	6206					
VPWM INVERTER READY		SFA 21.6/10.8							
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 10HP 190/380V 28.2/14.1A							SF1.0	

AC Induction Motor Performance Data

Record # 114205

Typical performance - not guaranteed values

Winding: 37WGS864-R029			Type: 3730M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		14.94 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		23.2/11.6	Breakdown Torque		46.1 LB-FT		
R.P.M.		3490	Pull-up Torque		19.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		23.7 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		77.3 A
Service Factor (S.F.)		1.15	No-load Current		3.66 A		
NEMA Nom. Eff.		90.2	Power Factor	88	Line-line Res. @ 25°C		1.0811 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		78°C
S.F. Amps					Temp. Rise @ S.F. Load		100°C
					Locked-rotor Power Factor		33.7
					Rotor inertia		0.273 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	85	88	89	89	89
Efficiency	88.6	91.6	91.6	90.6	89.1	87.3	89.7
Speed	3573	3547.6	3520	3488.7	3455	3416.8	3468
Line amperes	4.56	6.49	8.9	11.6	14.6	17.9	13.4

ABB Motors and Mechanical Inc.

WINDING # 37WGS864

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3730M

TORQUES (LB-FT) : PO=46.1 PU=19.3 LR=23.7 LRA=77.3



