



Customer information packet

EM3313T

10HP, 1770RPM, 3PH, 60HZ, 215T, 3742M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	26.400 A @ 208.0 V 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 Shaft Indicator	None

Part detail

Revision	F
Type	AC
Mech. spec.	37F614
Base	
Status	PRD/A
Elec. spec.	37WGL868
Layout	37LYF614
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-11-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
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	3742M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	82
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	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

NP3553LUA

CAT.NO.	EM3313T									
SPEC.	37F614L868									
HP	10									
VOLTS	230/460									
AMPS	25/12.5									
RPM	1770									
FRAME	215T		HZ	60			PH	3		
SF	1.15	CODE	H	DES	B		CLASS	F		
NEMA NOM. EFF	91.7	PF	82							
RATING	40C AMB-CONT									
CC	010A									
ENCL	OPSB	SN								
DE	6307		ODE	6206						
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										
USABLE AT	50HZ 7.5HP 190/380V 23.4/11.7A							SF1.0		

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 85454

Preliminary Data Sheet

Winding: 37WGL868-RXXX				Type: 3742M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10		Full Load Torque		29.8 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		25.0/12.5		Breakdown Torque		101 LB-FT		
R.P.M.		1770		Pull-up Torque		44.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		56 LB-FT		
NEMA Design Code		B		KVA Code	H		Starting Current	88.6 A
Service Factor (S.F.)		1.15		No-load Current		5.31 A		
NEMA Nom. Eff.		91.7		Power Factor	82		Line-line Res. @ 25°C	1.18 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps		28.0/14.0		Temp. Rise @ S.F. Load		44°C		
				Locked-rotor Power Factor		42.6		
				Rotor inertia		1.03 lb-ft²		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	77	82	84	85	84
Efficiency	86.7	91.3	92.1	91.7	90.9	89.6	91.1
Speed	1792	1785	1777	1769	1760	1750	1762
Line amperes	6.04	7.69	9.84	12.4	15.3	18.4	14.1

ABB Motors and Mechanical Inc.

WINDING # 37WGL868

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=101 PU=44.9 LR=56 LRA=88.6





