



Customer information packet

EHM3309T

5HP, 1160RPM, 3PH, 60HZ, 215T, 3744M, 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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	7.400 A @ 460.0 V 15.200 A @ 208.0 V 14.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	N
Type	AC
Mech. spec.	37J637
Base	
Status	PRD/A
Elec. spec.	37WGS521
Layout	37LYJ637
Eff. date	07-10-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	10-22-2013

High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.45 IN
Power Factor	71
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 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

NP2094E06B03											
CAT.NO.	EHM3309T										
SPEC.	37J637S521G1										
HP	5										
VOLTS	230/460										
AMPS	14.8/7.4										
RPM	1160										
FRAME	215T		HZ	60			PH	3			
SER.F.	1.15	CODE	K	DES	A		CL	F			
NEMA-NOM-EFF	89.5		PF	71							
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V				N/A			
DE	6307		ODE	6206							
AUTO	N	MANUAL	N	NONE	Y						
ENCL	OPSB	SN									
BLANK	SFA 16.6/8.3										

AC Induction Motor Performance Data

Record # 53393

Typical performance - not guaranteed values

Winding: 37WGS521-R008			Type: 3744M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5		Full Load Torque		22.5 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		14.8/7.4		Breakdown Torque		77.9 LB-FT	
R.P.M.		1160		Pull-up Torque		47.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		54.8 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		53 A
Service Factor (S.F.)		1.15		No-load Current		3.84 A	
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		1.7514 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C	
S.F. Amps				Temp. Rise @ S.F. Load		41°C	
				Locked-rotor Power Factor		23	
				Rotor inertia		1.09 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	65	71	74	76	73
Efficiency	84.5	89.4	90.1	89.5	88.3	86.5	88.8
Speed	1191.9	1183.8	1173.7	1164.6	1153.5	1139.2	1158
Line amperes	4.14	4.95	6.08	7.36	8.92	10.7	8.3

ABB Motors and Mechanical Inc.

WINDING # 37WGS521

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1160 RPM 460 V 3744M

TORQUES (LB-FT): PO=77.9 PU=47.4 LR=54.8 LRA=53





