



Customer information packet

EBM3704TY

3HP, 1160RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	3.000 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	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
Brake Torque	35.0 lb-ft
Current @ Voltage	4.600 A @ 460.0 V 9.200 A @ 230.0 V 9.600 A @ 208.0 V
Design Code	B
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	Brake Mounting
Front Shaft Indicator	None

Part detail

Revision	H
Type	AC
Mech. spec.	37A021
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYA021
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	10-01-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
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	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.01 IN
Power Factor	68
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 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

NP1259L											
CAT.NO.	EBM3704TY										
SPEC.	37A021S519G2										
HP	3										
VOLTS	230/460										
AMP	9.2/4.6										
RPM	1160										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15	CODE	L	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	68								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6306							
ENCL	TEFC	SN									

AC Induction Motor Performance Data

Record # 35282

Typical performance - not guaranteed values

Winding: 37WGS519-R002			Type: 3738M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		3	Full Load Torque		13.4 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		9.2/4.6	Breakdown Torque		50.4 LB-FT			
R.P.M.		1160	Pull-up Torque		31.8 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		33.9 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		34 A	
Service Factor (S.F.)		1.15		No-load Current		2.56 A		
NEMA Nom. Eff.		89.5	Power Factor		68	Line-line Res. @ 25°C		2.67 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		38°C
S.F. Amps						Temp. Rise @ S.F. Load		45°C
						Locked-rotor Power Factor		22.9
						Rotor inertia		0.945 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

ABB Motors and Mechanical Inc.

WINDING # 37WGS519

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M

TORQUES (LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34





