



Customer information packet

EM3587T-BG

2HP, 1760RPM, 3PH, 60HZ, 145T, 0526M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 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 UR NEMA_PREMIUM NEMA PREMIUM
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	2.800 A @ 460.0 V 5.600 A @ 230.0 V 5.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	05WGX509
Layout	05LYH015
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

High Voltage Full Load Amps	2.8 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.54 IN
Power Factor	76
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 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.	EM3587T-BG								
SPEC	05-0000-1054								
HP	2								
VOLTS	230/460								
AMPS	5.6/2.8								
RPM	1760								
FRAME	145T		HZ	60		PH	3		
SF	1.15	CODE	L	DES	B	CLASS	H		
NEMA NOM. EFF	86.5	PF	76						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6205		ODE	6203					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data

Record # 75448

Typical performance - not guaranteed values

Winding: 05WGX095-R006			Type: 0528M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		6.01 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5.8/2.9	Breakdown Torque		25.5 LB-FT		
R.P.M.		1750	Pull-up Torque		14.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17.7 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		24.8 A
Service Factor (S.F.)		1.15		No-load Current		1.8 A	
NEMA Nom. Eff.		86.5	Power Factor	75	Line-line Res. @ 25°C		8.02 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps				Temp. Rise @ S.F. Load		59°C	
				Locked-rotor Power Factor		52.4	
				Rotor inertia		0.165 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	66	75	80	83	78
Efficiency	77.4	85.2	86.7	86.9	86.2	84.8	86.5
Speed	1788	1777	1767	1756	1744	1730	1749
Line amperes	1.87	2.11	2.47	2.9	3.39	3.97	3.19

ABB Motors and Mechanical Inc.

WINDING # 05WGX095

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1750 RPM 460 V 0528M

TORQUES (LB-FT): PO=25.5 PU=14.6 LR=17.7 LRA=24.8





