



Customer information packet

EM3154T-57

1.5/1.1KWHP, 1470RPM, 3PH, 50HZ, 145T, 3524M

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	145T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
Agency Approvals	CE CSA IE3 UR WEEE
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	4.500 A @ 230.0 V 2.600 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	B
Type	AC
Mech. spec.	35BB001
Base	
Status	PRD/A
Elec. spec.	35WGG296
Layout	35LYBB001
Eff. date	05-07-2024
CD Diagram	CD0022
Poles	04
Leads	6#18 Y
Proprietary	False
Created date	03-11-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.13 IN
Power Factor	73
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1470 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

NP2716L									
CAT NO	EM3154T-57								
SPEC.	35BB001G296G1								
HP	1.5/1.1KW					PH	3		
VOLTS	230/400								
AMP	4.5/2.6								
R.P.M. (1/MIN)	1470								
FRAME	145T		HZ	50		I.P.	23		
SER.F.	1.15	CODE	L	DES	B	CL	F		
NOM.EFF.	84.2		% (100%)						
PF	73								
RATING	40C AMB-S1 CONT				CC				
DE BRG	6205		ODE	6203					
ENCL	OPEN	SN							
BLANK	SFA 4.8/2.8								
	IC01 19KG								

AC Induction Motor Performance Data

Record # 86993

Preliminary Data Sheet

Winding: 35WGG296-R002			Type: 3524M		Enclosure: OPEN			
Nameplate Data			400 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		1.5	Full Load Torque		5.39 LB-FT			
Volts		230/400	Start Configuration		direct on line			
Full Load Amps		4.5/2.6	Breakdown Torque		18.9 LB-FT			
R.P.M.		1470	Pull-up Torque		10.8 LB-FT			
Hz	50	Phase	3	Locked-rotor Torque		13.3 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		20 A	
Service Factor (S.F.)		1.15	No-load Current		1.69 A			
NEMA Nom. Eff.		84.2	Power Factor		73	Line-line Res. @ 25°C		12.6 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps		5/2.9	Temp. Rise @ S.F. Load		67°C			
			Locked-rotor Power Factor		70			
			Rotor inertia		0.173 lb-ft²			

Load Characteristics 400 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	51	64	73	79	83	80
Efficiency	72.7	81.7	84	84.3	83.2	81.7	84.2
Speed	1492	1486	1478	1470	1460	1450	1462
Line amperes	1.75	1.94	2.25	2.61	3.07	3.58	2.75

ABB Motors and Mechanical Inc.

WINDING # 35WGG296

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1470 RPM 400 V 3524M

TORQUES (LB-FT): PO=18.9 PU=10.8 LR=13.3 LRA=20





