



Customer information packet

HBEM3554T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3524M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.600 A @ 230.0 V 4.640 A @ 208.0 V 2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	B
Type	AC
Mech. spec.	35E5738
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYE5738
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	2.3 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 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

[illegible]

AC Induction Motor Performance Data

Record # 53325

Typical performance - not guaranteed values

Winding: 35WGM493-R079		Type: 3526M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	4.47 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	4.4/2.2	Breakdown Torque	19.2 LB-FT
R.P.M.	1760	Pull-up Torque	9.4 LB-FT
Hz	60 Phase	Locked-rotor Torque	13.4 LB-FT
NEMA Design Code	B KVA Code	Starting Current	18.3 A
Service Factor (S.F.)	1.15	No-load Current	1.37 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	10.7 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	44°C
S.F. Amps		Temp. Rise @ S.F. Load	52°C
		Locked-rotor Power Factor	52
		Rotor inertia	0.154 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	51	65	73	79	83	77
Efficiency	76.2	84.5	86.9	87.2	86.5	85.3	86.8
Speed	1791	1781	1771	1760	1748	1735	1753
Line amperes	1.44	1.61	1.86	2.19	2.58	2.98	2.42

ABB Motors and Mechanical Inc.

WINDING # 35WGM493

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1760 RPM 460 V 3526M

TORQUES (LB-FT): PO=19.2 PU=9.4 LR=13.4 LRA=18.3





