

ABB BALDOR RELIANCE III

Customer information packet

HBEM3556T

1HP, 1170RPM, 3PH, 60HZ, 145T, 3526M, TEFC, F1

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	1.000 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	WEEE 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	1.500 A @ 460.0 V 3.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	H

Part Detail

Revision	C
Type	AC
Mech. spec.	35E5738
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYE5738
Eff. date	08-04-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.29 IN
Power Factor	67
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	1170 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

NP4246A01A01												
CAT #	HBEM3556T					WGT	41	LBS				
SPEC	35E5738G019G1					ENCL	TEFC					
SER #						CC	010A	IP	54			
HP	1					MAG CUR	2.04/1.02					
VOLTS	230/460					NEMA NOM. EFF					82.5	
AMPS	3/1.5					PF	67					
RATING	40C AMB-CONT											
RPM	1170					MAX RPM			1800			
FRAME	145T	HZ	60			CODE	J	CLASS		H		
SER.F.	1.15	SF AMP	3.7/1.85				PH	3	DES		B	
DE	6205		ODE		6203							
LUBRICATION	POLYREX EM											
ID LOGO	INV TYPE:		VPWM		CHP	60	TO		90	1.5:1		
ID LOGO	WK2	0.189	CT	6	TO	60	10:1					
ID LOGO	SL HZ	1.57	VT	3	TO	60	20:1					
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AC Induction Motor Performance Data

Record # 53334

Typical performance - not guaranteed values

Winding: 35WGM497-R064			Type: 3526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		4.51 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.6/1.8	Breakdown Torque		15.3 LB-FT		
R.P.M.		1155	Pull-up Torque		11.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11.9 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		10.8 A
Service Factor (S.F.)		1.15	No-load Current		1.21 A		
NEMA Nom. Eff.		82.5	Power Factor	64	Line-line Res. @ 25°C		16.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		47°C
S.F. Amps					Temp. Rise @ S.F. Load		56°C
					Locked-rotor Power Factor		42
					Rotor inertia		0.155 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	64	70	75	68
Efficiency	69.3	79.4	82.1	82.8	82.1	80.5	82.4
Speed	1190	1181	1170	1159	1146	1130	1151
Line amperes	1.25	1.36	1.53	1.75	2.02	2.33	1.91

ABB Motors and Mechanical Inc.

WINDING # 35WGM497

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

TORQUES (LB-FT): PO=15.3 PU=11.1 LR=11.9 LRA=10.8





