

ABB BALDOR RELIANCE III

Customer information packet

EM3556T-G

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	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	35Z063
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYZ063
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	1.5 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	13.31 IN
Power Factor	67
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	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

NP3441LUA											
CAT.NO.	EM3556T-G										
SPEC	35Z063G019G2										
HP	1										
VOLTS	230/460										
AMPS	3/1.5										
RPM	1170										
FRAME	145T		HZ	60			PH	3			
SF	1.15		CODE	J	DES	B	CLASS	H			
NEMA NOM. EFF	82.5		PF	67							
RATING	40C AMB-CONT										
CC	010A										
ENCL	TEFC		SER								
DE	6205		ODE	6203							
VPWM INVERTER READY			SFA 3.7/1.85								
CT6-60H(10:1)VT3-60H(20:1											

AC Induction Motor Performance Data

Record # 82299

Typical performance - not guaranteed values

Winding: 35WGG019-R004			Type: 3526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		4.479 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3/1.5	Breakdown Torque		11.9 LB-FT		
R.P.M.		1170	Pull-up Torque		7.06 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		8.62 LB-FT	
NEMA Design Code		B	KVA Code		J		
Service Factor (S.F.)		1.15	Starting Current		9.06 A		
NEMA Nom. Eff.		82.5	Power Factor		67		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		46°C
S.F. Amps		3.7/1.85	Temp. Rise @ S.F. Load		56°C		
			Locked-rotor Power Factor		48.3		
			Rotor inertia		0.189 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	47	1	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1	82.2
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147	1163
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35	1.86

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1170 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06





