



Customer information packet

CZDNM3539

.5HP, 1180RPM, 3PH, 60HZ, 56C, 3526M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
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	.500 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	UR CSA
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	1.210 A @ 460.0 V 2.420 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	H

Part detail

Revision	A
Type	AC
Mech. spec.	35E6689
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYE6689
Eff. date	05-21-2025
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	04-29-2025

Inverter Code	Inverter Duty
KVA Code	R
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	14.84 IN
Power Factor	48
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3304L					
CAT NO	CZDNM3539				
SPEC.	35E6689G019Z1				
FRAME	56C	HP	.5 TE		
VOLTS	230/460 ENCL TENV				
MAG CUR	2/1		FLA	2.42/1.21	
RPM	1180	RPM MAX		1800	
HZ	60	PH	3	CLASS	H
SER.F.	1.00		SL HZ	1	
NEMA-NOM-EFF	80	WK2	0.189		
RATING	40C AMB-CONT				
DE BRG	6205	ODE BRG		6203	
CC		SER.NO			
	1000:1 CT 1.5:1 CHP				
	1.15 SF ON SINEWAVE				

AC Induction Motor Performance Data

Record # 108104

Typical performance - not guaranteed values

Winding: 35WGG019-R034			Type: 3526M		Enclosure: TENV			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5		Full Load Torque		2.23 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		2.42/1.21		Breakdown Torque		11.9 LB-FT		
R.P.M.		1180		Pull-up Torque		6.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.8 LB-FT		
NEMA Design Code		B	KVA Code	R	Starting Current		9 A	
Service Factor (S.F.)		1.15		No-load Current		1 A		
NEMA Nom. Eff.		80	Power Factor	48	Line-line Res. @ 25°C		21.1 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		45°C
S.F. Amps						Temp. Rise @ S.F. Load		49°C
						Locked-rotor Power Factor		48.3
						Rotor inertia		0.189 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	19	30	40	48	55	60	52
Efficiency	59.8	73.2	78.6	80.9	81.8	81.9	81.4
Speed	1195	1191	1186	1182	1177	1171	1179
Line amperes	1.02	1.07	1.13	1.21	1.31	1.43	1.27

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1180 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=6.9 LR=7.8 LRA=9





