

ABB BALDOR RELIANCE III

Customer information packet

VZDNM3539

.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	No Mounting
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.	35E6691
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYE6691
Eff. date	08-05-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	05-13-2025

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	0.625 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	VZDNM3539								
SPEC.	35E6691G019Z1								
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





