

ABB BALDOR RELIANCE III

Customer information packet

VEM3558

2HP, 1750RPM, 3PH, 60HZ, 56C, 3526M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
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	2.600 A @ 460.0 V 5.200 A @ 230.0 V 5.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a

Part Detail

Revision	-
Type	AC
Mech. spec.	35J302
Base	
Status	PRD/A
Elec. spec.	35WGZ165
Layout	35LYJ302
Eff. date	02-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-04-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	4
Overall Length	13.23 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	VEM3558								
SPEC	35J302Z165								
HP	2								
VOLTS	230/460								
AMPS	5.6/2.8								
RPM	1760								
FRAME	56C		HZ	60		PH	3		
SF	1.15	CODE	K	DES	B	CLASS	F		
NEMA NOM. EFF	86.5	PF	78						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6205		ODE	6203					
VPWM INVERTER READY	SFA 6.3/3.15								
CT6-60H(10:1)VT3-60H(20:1									
2HP 50HZ 190/380V 6.6/3.3A									SF1.0

AC Induction Motor Performance Data

Record # 114535

Typical performance - not guaranteed values

Winding: 35WGZ165-R001			Type: 3526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		5.979 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5.2/2.6	Breakdown Torque		18.4 LB-FT		
R.P.M.		1750	Pull-up Torque		13.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		14.5 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		17.9 A
Service Factor (S.F.)		1.15	No-load Current		1.24 A		
NEMA Nom. Eff.		86.5	Power Factor	82	Line-line Res. @ 25°C		10.857 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		59°C
S.F. Amps		6/3	Temp. Rise @ S.F. Load		75°C		
			Locked-rotor Power Factor		59.3		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	82	86	87	84
Efficiency	82.7	87.6	87.8	86.6	84.6	82	85.4
Speed	1788.4	1776.9	1763.5	1748.9	1731.7	1711.8	1739
Line amperes	1.35	1.65	2.09	2.61	3.21	3.91	2.97

ABB Motors and Mechanical Inc.

WINDING # 35WGZ165

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

TORQUES (LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9





