

ABB BALDOR RELIANCE III

Customer information packet

VFSWDNM3558T-E-G

2HP, 1760RPM, 3PH, 60HZ, 145TC, 3546M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145TC
Frame Material	Stainless 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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
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	5.300 A @ 230.0 V 5.600 A @ 208.0 V 2.650 A @ 460.0 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

Part Detail

Revision	B
Type	AC
Mech. spec.	35E6051
Base	
Status	PRD/A
Elec. spec.	35WGZ811
Layout	35LYE6051
Eff. date	01-29-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	2.7 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3546M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.09 IN
Power Factor	80
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP4427AAA01A												
CAT #	VFSWDNM3558T-E-G					WGT		LBS				
SPEC	35E6051Z811G1					ENCL	TENV					
SER #						CC	010A	IP	69			
HP	2	MAG CUR				2.7/1.35						
VOLTS	230/460					NEMA NOM. EFF				86.5		
AMPS	5.3/2.65					PF	80					
RATING	40C AMB-CONT											
RPM	1760					MAX RPM		2700				
FRAME	145TC	HZ	60	CODE		L	CLASS		H			
SER.F.	1.15	SF AMP	6/3	PH			3	DES	B			
DE	6205		ODE		6205							
LUBRICATION	POLYREX EM											
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90	1.5:1		
ID LOGO	WK2	0.332	CT	3	TO	60	20:1					
ID LOGO	SL HZ	1.33	VT	3	TO	60	20:1					

AC Induction Motor Performance Data

Record # 51199

Typical performance - not guaranteed values

Winding: 35WGL289-R001		Type: 3546M	Enclosure: TENV
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	6.02 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	5.6/2.8	Breakdown Torque	28.1 LB-FT
R.P.M.	1750	Pull-up Torque	16.2 LB-FT
Hz	60 Phase	Locked-rotor Torque	21 LB-FT
NEMA Design Code	B KVA Code	Starting Current	26.4 A
Service Factor (S.F.)	1.15	No-load Current	1.45 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	6.055 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	95°C
S.F. Amps		Temp. Rise @ S.F. Load	116°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	70	78	82	85	80
Efficiency	83.4	88.6	89.6	89.2	88.2	86.8	88.6
Speed	1788.3	1777.3	1765.6	1753	1739.2	1723.9	1745
Line amperes	1.59	1.86	2.24	2.71	3.24	3.82	3.03

ABB Motors and Mechanical Inc.

WINDING # 35WGL289

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1750 RPM 460 V 3546M

TORQUES (LB-FT): PO=28.1 PU=16.2 LR=21 LRA=26.4





