

ABB BALDOR RELIANCE III

Customer information packet

VSPJMM3116T

1HP, 1760RPM, 3PH, 60HZ, 143JM, 3520M, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	143JM
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	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	1.630 A @ 460.0 V 3.200 A @ 208.0 V 3.260 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35EE458
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYEE458
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	08-07-2025

Inverter Code	Inverter Duty
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.51 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP4423A01A01L															
CAT #	VSPJMM3116T					WGT	37	LBS							
SPEC	35EE458G004					ENCL	ODP								
SER #						CC	010A	IP	23						
HP	1	MAG CUR				2.4/1.2									
VOLTS	230/460					NEMA NOM. EFF				85.5					
AMPS	3.26/1.63					PF	67								
RATING	40C AMB-CONT														
RPM	1760					MAX RPM		2700							
FRAME	143JM	HZ	60	CODE		N	CLASS		F						
SER.F.	1.25	SF AMP	4.07/2.03				PH	3	DES	B					
DE	6206		ODE		6203										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO		90	1.5:1				
ID LOGO	WK2	0.144	CT	6	TO		60	10:1							
ID LOGO	SL HZ	1.3	VT	3	TO		60	20:1							
							QR								
YR															

AC Induction Motor Performance Data

Record # 86927

Typical performance - not guaranteed values

Winding: 35WGG004-R007			Type: 3520M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		2.97 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3.26/1.63	Breakdown Torque		13.68 LB-FT	
R.P.M.		1760	Pull-up Torque		7.85 LB-FT	
Hz		60	Phase		3	
NEMA Design Code		B	KVA Code		N	
Service Factor (S.F.)		1.15	Starting Current		14.13 A	
NEMA Nom. Eff.		85.5	Power Factor		67	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		3.52/1.76	Temp. Rise @ S.F. Load		27°C	
			Locked-rotor Power Factor		61.5	
			Rotor inertia		0.144 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	47	60	69	76	79	73
Efficiency	72.1	81.7	84.7	85.7	85.5	84.7	85.6
Speed	1791	1784	1776	1768	1759	1750	1763
Line amperes	1.11	1.22	1.38	1.59	1.82	2.09	1.73

ABB Motors and Mechanical Inc.

WINDING # 35WGG004

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13





