

ABB BALDOR RELIANCE III

Customer information packet

VEL11319

1.5HP, 1725RPM, 1PH, 60HZ, 56C, 3536LC, ODTF, F

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	12.800 A @ 115.0 V 5.800 A @ 230.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	83.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.8 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	L
Type	AC
Mech. spec.	35E019
Base	
Status	PRD/A
Elec. spec.	35WGG129
Layout	35LYE019
Eff. date	10-01-2024
CD Diagram	CD0016A01
Poles	04
Leads	7#18
Proprietary	False
Created date	08-01-2022

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3536LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.48 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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

NP3155L									
CAT.NO.	VEL11319								
SPEC.	35E019G129								
HP	1.5								
VOLTS	115/230								
AMP	12.8/5.8								
RPM	1750								
FRAME	56C		HZ	60			PH	1	
SER.F.	1.15	CODE	K	DES	L	CL	F		
F.L. AVG. EFF.	83.8	PF	90						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	ODTF	SN							

AC Induction Motor Performance Data

Record # 108307

Typical performance - not guaranteed values

Winding: 35WGG129-R001			Type: 3536LC		Enclosure: ODP	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.502 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		12.8/5.8	Breakdown Torque		12.8 LB-FT	
R.P.M.		1750	Pull-up Torque		10.2 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		15.7 LB-FT
NEMA Design Code		L	KVA Code		K	
Service Factor (S.F.)		1.15	Starting Current		105 A	
NEMA Nom. Eff.		83.8	Power Factor		90	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps			Temp. Rise @ S.F. Load		34°C	
					41°C	

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	79	86	90	92	93	91
Efficiency	67.5	79.8	83.5	84.2	83.2	80.9	83.6
Speed	1787	1777	1766.1	1753.9	1739.6	1722.1	1745
Line amperes	5.8	7.77	10.1	12.8	15.9	19.4	14.7

ABB Motors and Mechanical Inc.

WINDING # 35WGG129

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1750 RPM 115 V 3536LC

TORQUES (LB-FT): PO=12.8 PU=10.2 LR=15.7 LRA=105





