

ABB BALDOR RELIANCE III

Customer information packet

VEL11307

.75HP, 1755RPM, 1PH, 60HZ, 56C, 3522LC, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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	.750 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	6.100 A @ 115.0 V 3.350 A @ 208.0 V 3.050 A @ 230.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	35E4016
Base	
Status	PRD/A
Elec. spec.	35WGL999
Layout	35LYE4016
Eff. date	05-16-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	08-11-2022

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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.	VEL11307										
SPEC.	35E4016L999										
HP	.75										
VOLTS	115/230										
AMP	6.1/3.05										
RPM	1755										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.25	CODE	L	DES	N	CL	F				
F.L. AVG. EFF.	82.5	PF	95								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	OPEN	SN									
	SFA 7.6/3.8										

AC Induction Motor Performance Data

Record # 84023

Typical performance - not guaranteed values

Winding: 35WGL999-R001			Type: 3522LC		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		6.1/3.1	Breakdown Torque		6.17 LB-FT	
R.P.M.		1750	Pull-up Torque		5.27 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		9.16 LB-FT	
NEMA Design Code		N	KVA Code		L	
Service Factor (S.F.)		1.25	Starting Current		59 A	
			No-load Current		2.04 A	
NEMA Nom. Eff.		81.1	Power Factor		96	
			Line-line Res. @ 25°C		1.1149 Ω A Ph 1.137 Ω B Ph	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
					78°C	
S.F. Amps		7.7/3.8	Temp. Rise @ S.F. Load		103°C	

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	77	91	94	95	96	96	96
Efficiency	60.5	76.7	81.9	83.3	82.5	80.7	82.5
Speed	1787.5	1776.9	1765.6	1752.7	1735.6	1718.2	1736
Line amperes	2.64	3.52	4.75	6.12	7.74	9.43	7.74

ABB Motors and Mechanical Inc.

WINDING # 35WGL999

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1750 RPM 115 V 3522LC

TORQUES (LB-FT) : PO=6.17 PU=5.27 LR=9.16 LRA=59





