



Customer information packet

VEL11317A

2HP, 3470RPM, 1PH, 60HZ, 56C, 3540LC, OPEN, F1

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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
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	15.600 A @ 115.0 V 7.800 A @ 230.0 V 9.900 A @ 208.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.9 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	B
Inverter Code	Not Inverter

Part detail

Revision	B
Type	AC
Mech. spec.	35EL001
Base	
Status	PRD/A
Elec. spec.	35WGL153
Layout	35LYEL001
Eff. date	01-02-2025
CD Diagram	CD0881
Poles	02
Leads	6#16,1#14
Proprietary	False
Created date	02-07-2023

KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.47 IN
Power Factor	99
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	3470 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP3273L										
CAT.NO.	VEL11317A									
SPEC.	35EL001L153G1									
HP	2									
VOLTS	115/230									
AMP	15.6/7.8									
RPM	3470									
FRAME	56C		HZ	60		PH	1			
SER.F.	1.15	CODE	G	DES	L	CL	B			
F.L. AVG. EFF.	82.9	PF	99							
RATING	40C AMB-CONT									
CC										
DE	6205		ODE	6203						
ENCL	OPEN	SN								

AC Induction Motor Performance Data

Record # 49049

Typical performance - not guaranteed values

Winding: 35WGL153-R001			Type: 3540LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		2	Full Load Torque		3.02 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		15.6/7.8	Breakdown Torque		7.37 LB-FT		
R.P.M.		3470	Pull-up Torque		4.62 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		7.94 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		98.8 A
Service Factor (S.F.)		1.15		No-load Current		2.21 A	
NEMA Nom. Eff.		82.9	Power Factor	99	Line-line Res. @ 25°C		0.28842 Ω A Ph 0.56941 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		25°C	
S.F. Amps				Temp. Rise @ S.F. Load		33°C	

Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	97	100	100	99	99	98	99
Efficiency	71.3	82	84.1	83.5	80.6	76.8	81.8
Speed	3570.3	3542.6	3508.2	3472.2	3424.1	3372.2	3443
Line amperes	4.73	7.91	11.7	15.6	20.5	25.8	18.5

ABB Motors and Mechanical Inc.

WINDING # 35WGL153

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3470 RPM 115 V 3540LC

TORQUES (LB-FT): PO=7.37 PU=4.62 LR=7.94 LRA=98.8





