

ABB BALDOR RELIANCE III

Customer information packet

RL1304A277

.5HP/1725RPM/1PH/OPEN/NEMA 56

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.600 A @ 277.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	Z
Type	AC
Mech. spec.	34L033
Base	
Status	PRD/A
Elec. spec.	34WGW310
Layout	34LYL033
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.59 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP1257L														
CAT.NO.	RL1304A277													
SPEC.	34L33W310													
HP	.5													
VOLTS	277													
AMP	3.6													
RPM	1725													
FRAME	56			HZ		60		PH		1				
SER.F.	1.25		CODE	K	DES	N	CL	B						
NEMA-NOM-EFF	62		PF	61										
RATING	40C AMB-CONT													
CC														
DE	6203		ODE	6203										
ENCL	OPEN	SN												
	SFA 4													

AC Induction Motor Performance Data

Record # 6948

Typical performance - not guaranteed values

Winding: 34WGW310-R001				Type: 3418L		Enclosure: OPEN	
Nameplate Data				277 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5		Full Load Torque		1.5 LB-FT	
Volts		277		Start Configuration		direct on line	
Full Load Amps		3.6		Breakdown Torque		4.35 LB-FT	
R.P.M.		1725		Pull-up Torque		3.75 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		5.03 LB-FT	
NEMA Design Code		N		KVA Code		K	
Service Factor (S.F.)		1.25		Starting Current		15.5 A	
NEMA Nom. Eff.		62		Power Factor		61	
Rating - Duty		40C AMB-CONT		Line-line Res. @ 25°C		6.38 Ω A Ph 18.2 Ω B Ph	
S.F. Amps		4		Temp. Rise @ Rated Load		59°C	
				Temp. Rise @ S.F. Load		68°C	

Load Characteristics 277 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	42	53	62	69	77	69
Efficiency	36	52	60	64	65	65	65
Speed	1780	1765	1750	1730	1711	1685	1711
Line amperes	2.9	3	3.2	3.5	3.8	4.3	3.8

ABB Motors and Mechanical Inc.

WINDING # 34WG310

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 277 V 3418L

TORQUES (LB-FT): PO=4.35 PU=3.75 LR=5.03 LRA=15.5





