

ABB BALDOR RELIANCE III

Customer information packet

RL1301A277

.33HP/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	.330 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	2.500 A @ 277.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
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	2.5 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	Y
Type	AC
Mech. spec.	34K018
Base	
Status	PRD/A
Elec. spec.	34WGW220
Layout	34LYK018
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	01-01-0001

KVA Code	L
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	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.97 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
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

Nameplate

NP1257L											
CAT.NO.	RL1301A277										
SPEC.	34K18W220										
HP	.33										
VOLTS	277										
AMP	2.5										
RPM	1725										
FRAME	56			HZ		60		PH		1	
SER.F.	1.35		CODE	L	DES	N	CL	B			
NEMA-NOM-EFF	60		PF	60							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN	SN									
	SFA 2.8										

AC Induction Motor Performance Data

Record # 36360

Typical performance - not guaranteed values

Winding: 34WGW220-R001			Type: 3414L		Enclosure: TEFC	
Nameplate Data				277 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		.33	Full Load Torque		0.994 LB-FT	
Volts		277	Start Configuration		direct on line	
Full Load Amps		2.5	Breakdown Torque		3.12 LB-FT	
R.P.M.		1725	Pull-up Torque		2.75 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		4.06 LB-FT
NEMA Design Code		N	KVA Code		L	
Service Factor (S.F.)		1.35	Starting Current		10.3 A	
NEMA Nom. Eff.		60	Power Factor		60	
Rating - Duty		40C	AMB-CONT		Line-line Res. @ 25°C 9.11 Ω A Ph 18.4 Ω B Ph	
S.F. Amps		2.8	Temp. Rise @ Rated Load		Temp. Rise @ S.F. Load	

Load Characteristics 277 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	43	52	60	67	72	69
Efficiency	34.7	50.5	58.7	63.3	65.7	66.6	66.1
Speed	1782	1771	1758	1744	1729	1712	1722
Line amperes	1.99	2.06	2.18	2.33	2.53	2.77	2.63

ABB Motors and Mechanical Inc.

WINDING # 34WG220

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 277 V 3414L

TORQUES (LB-FT): PO=3.12 PU=2.75 LR=4.06 LRA=10.3





