

ABB BALDOR RELIANCE III

Customer information packet

YPC345A

.5HP, 1625RPM, 1PH, 60HZ, 56YZ, 3414C, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56YZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Yoke Pedestal
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.100 A @ 115.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	D
Lifting Lugs	No Lifting Lugs

Part Detail

Revision	H
Type	AC
Mech. spec.	34M197
Base	
Status	PRD/A
Elec. spec.	34WGR236
Layout	34LYM197
Eff. date	10-28-2024
CD Diagram	CD0798
Poles	04
Leads	5#18
Proprietary	False
Created date	07-01-2015

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3414C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.68 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Flat Only (When Non-STD)
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	Shaft Slinger
Speed	1625 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	WG

Nameplate

NP1257L									
CAT.NO.	YPC345A								
SPEC.	34M197R236G1								
HP	.5								
VOLTS	115								
AMP	5.1								
RPM	1625								
FRAME	56YZ		HZ	60		PH	1		
SER.F.	1.00	CODE	D	DES	-	CL	B		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEAO	SN							

AC Induction Motor Performance Data

Record # 49836

Typical performance - not guaranteed values

Winding: 34WGR236-R001			Type: 3414C		Enclosure: TEAO	
Nameplate Data			115 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5	Full Load Torque		1.62 LB-FT	
Volts		115	Start Configuration		direct on line	
Full Load Amps		5.1	Breakdown Torque		2.8 LB-FT	
R.P.M.		1625	Pull-up Torque		0.382 LB-FT	
Hz		60	Phase		1	
NEMA Design Code		-	KVA Code		D	
Service Factor (S.F.)		1	No-load Current		1.75 A	
NEMA Nom. Eff.		0	Power Factor		0	
			Line-line Res. @ 25°C		2.1667 Ω A Ph 5.2933 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	87	92	95	96	95	94
Efficiency	42.3	63.6	70.2	70.9	68.3	59.6
Speed	1769.5	1751.8	1725.8	1692.3	1650.7	1563.7
Line amperes	2.36	2.99	3.94	5.02	6.3	8.34

ABB Motors and Mechanical Inc.

WINDING # 34WGR236

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1625 RPM 115 V 3414C

TORQUES (LB-FT): PO=2.8 PU=0.382 LR=0.512 LRA=17.7





