

ABB BALDOR RELIANCE III

Customer information packet

L3403M

.25HP, 1725RPM, 1PH, 60HZ, 48, 3411L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	48
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	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.000 A @ 115.0 V 3.000 A @ 208.0 V 2.500 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	55.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a

Part Detail

Revision	AH
Type	AC
Mech. spec.	34C051
Base	
Status	PRD/A
Elec. spec.	34WG5602
Layout	34LYC051
Eff. date	12-30-2024
CD Diagram	CD0269
Poles	04
Leads	7#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3411L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.72 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	Manual Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2

None

Nameplate

NP1257L											
CAT.NO.	L3403M										
SPEC.	34C51-5602										
HP	.25										
VOLTS	115/230										
AMP	5/2.5										
RPM	1725										
FRAME	48			HZ		60		PH		1	
SER.F.	1.35	CODE	L	DES		N	CL	B			
NEMA-NOM-EFF	55	PF	57								
RATING	40C AMB-CONT										
CC											
DE	6203	ODE		6203							
ENCL	TEFC	SN									
	SFA 5.6/2.8										

Accessories

Part number	Description	Multiplier
34-3900T	C-FACE KIT	A8

AC Induction Motor Performance Data

Record # 6790

Typical performance - not guaranteed values

Winding: 34WG5602-R001				Type: 3411L		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.25		Full Load Torque		0.75 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		5/2.5		Breakdown Torque		2.13 LB-FT	
R.P.M.		1725		Pull-up Torque		1.88 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		2.48 LB-FT	
NEMA Design Code		N	KVA Code	Starting Current		9.95 A	
Service Factor (S.F.)		1.35		No-load Current		2.2 A	
NEMA Nom. Eff.		55	Power Factor	57		Line-line Res. @ 25°C	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps		5.6/2.8		Temp. Rise @ S.F. Load		70°C	

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	40	49	57	63	69	67
Efficiency	28	40	50	55	58	59	59
Speed	1779	1763	1740	1720	1700	1670	1680
Line amperes	2.2	2.3	2.4	2.5	2.7	2.9	2.8

ABB Motors and Mechanical Inc.

WINDING # 34WG5602

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1725 RPM 230 V 3411L

TORQUES (LB-FT) : PO=2.13 PU=1.88 LR=2.48 LRA=9.95





