

ABB BALDOR RELIANCE III

Customer information packet

EM30003

.25HP, 1725RPM, 3PH, 60HZ, 48, 3413M, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	48
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.250 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	.500 A @ 460.0 V 1.000 A @ 230.0 V 1.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	69.5 %
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	0.5 a

Part Detail

Revision	H
Type	AC
Mech. spec.	34B051
Base	
Status	PRD/A
Elec. spec.	34WGR137
Layout	34LYB051
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-27-2014

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3413M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.62 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	None
Winding Thermal 2	None

Nameplate

NP3155L											
CAT.NO.	EM30003										
SPEC.	34B051R137G1										
HP	.25										
VOLTS	230/460										
AMP	1/.5										
RPM	1725										
FRAME	48		HZ	60				PH	3		
SER.F.	1.35		CODE	M	DES	B		CL	F		
F.L. AVG. EFF.	69.5		PF	62							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	ODP		SN								
	SFA 1.2/.6										

Parts List

Part number	Description	Quantity
SA277362	SA 34B051R137G1	1.000 ea
RA263913	RA 34B051R137G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3200A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3200A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP3155L	ALUM SUPER-E UL CC "SEMS"	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea

AC Induction Motor Performance Data

Record # 44893

Typical performance - not guaranteed values

Winding: 34WGR137-R001			Type: 3413M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.25	Full Load Torque		0.76 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		1/.5	Breakdown Torque		3.28 LB-FT	
R.P.M.		1725	Pull-up Torque		2.41 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		1.91 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		3.43 A
Service Factor (S.F.)		1.35	No-load Current		0.395 A	
NEMA Nom. Eff.		69.5	Power Factor	Line-line Res. @ 25°C		60.2 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		16°C
S.F. Amps		1.2/.6	Temp. Rise @ S.F. Load		20°C	
			Locked-rotor Power Factor		63	
			Rotor inertia		0.031 LB-FT2	

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	41	53	62	69	74	71
Efficiency	52.3	65.9	72.5	74.1	74.8	74.2	74.6
Speed	1783	1771	1757	1742	1726	1707	1718
Line amperes	0.405	0.428	0.467	0.514	0.568	0.64	0.597

ABB Motors and Mechanical Inc.

WINDING # 34WGR137

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1725 RPM 460 V 3413M

TORQUES (LB-FT) : PO=3.28 PU=2.41 LR=1.91 LRA=3.43





