



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
Auxillary Box	No Auxillary Box
Auxillary 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								

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	M	Starting Current		3.43 A	
Service Factor (S.F.)		1.35	No-load Current		0.395 A			
NEMA Nom. Eff.		69.5	Power Factor		62	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





