



Customer information packet

M3538-57

.5HP, 1425RPM, 3PH, 50HZ, 56, 3420M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ 230.0 V @ 50 HZ
Agency Approvals	CE CSA UR WEEE
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	1.000 A @ 400.0 V 1.700 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	S
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WGX268
Layout	34LYA061
Eff. date	12-30-2024
CD Diagram	CD0022
Poles	04
Leads	6#18
Proprietary	False
Created date	09-07-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	67
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	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1425 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

NP1372L									
CAT.NO.	M3538-57								
SPEC.	34A061X268G1								
HP	.5 /KW .37								
VOLTS	230/400								
AMP	1.7/1 SFA 2/1.2								
R.P.M. (1/MIN)	1425								
FRAME	56		HZ	50		PH	3		
SER.F.	1.25	CODE	K	DES	B	CL	B		
NEMA-NOM-EFF	73	PF	67						
RATING	40C AMB-S1 CONT								
CC			IP44 KG12 IC411						
DE	6203		ODE	6203					
ENCL	TEFC	SN							
	IE2-71.8(75%)66.3(50%)								

AC Induction Motor Performance Data

Record # 35147

Typical performance - not guaranteed values

Winding: 34WGX268-R008				Type: 3420M		Enclosure: TEFC	
Nameplate Data				400 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		.5		Full Load Torque		1.8 LB-FT	
Volts		230/400		Start Configuration		direct on line	
Full Load Amps		1.7/1		Breakdown Torque		6.97 LB-FT	
R.P.M.		1425		Pull-up Torque		5.9 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque		6.96 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		6.31 A
Service Factor (S.F.)		1.25		No-load Current		0.704 A	
NEMA Nom. Eff.		73	Power Factor	67	Line-line Res. @ 25°C		27.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C	
S.F. Amps		2/1.2		Temp. Rise @ S.F. Load		55°C	
				Locked-rotor Power Factor		64	
				Rotor inertia		0.0476 LB-FT2	

Load Characteristics 400 V, 50 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	62	69	77	80	77
Efficiency	52.4	66.3	71.8	73.3	73.9	73.1	73.9
Speed	1479	1465	1448	1418	1406	1374	1406
Line amperes	0.749	0.819	0.901	1.04	1.15	1.31	1.15

ABB Motors and Mechanical Inc.

WINDING # 34WGX268

Typical performance - not guaranteed values.

0.5 HP 3 PH 50 HZ 1425 RPM 400 V 3420M

TORQUES (LB-FT): PO=6.97 PU=5.9 LR=6.96 LRA=6.31





