



Customer information packet

M3538

.5HP, 1720RPM, 3PH, 60HZ, 56, 3416M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	.500 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	CSA UR
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	.800 A @ 460.0 V 1.600 A @ 230.0 V 1.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a

Part detail

Revision	E
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WGR706
Layout	34LYA061
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-19-2020

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1720 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

NP1256L											
CAT.NO.	M3538										
SPEC.	34A061R706										
HP	.5										
VOLTS	230/460										
AMP	1.6/.8										
RPM	1720										
FRAME	56		HZ	60			PH	3			
SER.F.	1.25		CODE	J	DES	B	CLASS	B			
NEMA-NOM-EFF	75.5		PF	75							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 1.9/0.95										

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 110334

Typical performance - not guaranteed values

Winding: 34WGR706-R002			Type: 3416M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		1.53 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		1.6/.8	Breakdown Torque		5.15 LB-FT			
R.P.M.		1720	Pull-up Torque		2.87 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		3.94 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		5 A	
Service Factor (S.F.)		1.25	No-load Current		0.577 A			
NEMA Nom. Eff.		75.5	Power Factor		75	Line-line Res. @ 25°C		48.9 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps		1.9/0.95	Temp. Rise @ S.F. Load		70°C			
			Locked-rotor Power Factor		66.6			
			Rotor inertia		0.0381 lb-ft²			

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	66	75	81	84	81
Efficiency	58.6	70.6	74.6	75.5	74.8	72.9	74.8
Speed	1779	1761	1741	1718	1692	1662	1692
Line amperes	0.583	0.631	0.712	0.824	0.962	1.14	0.962

ABB Motors and Mechanical Inc.

WINDING # 34WGR706

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1720 RPM 460 V 3416M

TORQUES (LB-FT): PO=5.15 PU=2.87 LR=3.94 LRA=5





