



Product Information Packet

M3461

.5HP,1720RPM,3PH,60HZ,48,3416M,TEFC,F1,N

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WGR706	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34A051	Layout:	34LYA051	Poles:	04	Created Date:	01-29-2021
Base:	RG	Eff. Date:	02-18-2021	Leads:	9#18	Y	

Specs			
Catalog Number:	M3461	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	B
Frame:	48	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	J
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3416M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	75
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	1.600 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	1.700 A @ 208.0 V	Shaft Rotation:	Reversible
	.800 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	M3461										
SPEC.	34A051R706										
HP	.5										
VOLTS	230/460										
AMP	1.6/.8										
RPM	1720										
FRAME	48				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				USABLE AT 208V							1.7
DE	6203				ODE	6203					
ENCL	TEFC			SN							
	SFA 1.9/0.95										

AC Induction Motor Performance Data

Record # 85443

Typical performance - not guaranteed values

Winding: 34WGR706-R001			Type: 3416M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		0.5	Full Load Torque		1.53 LB-FT
Volts		230/460	Start Configuration		direct on line
Full Load Amps		1.6/0.8	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		70.8
			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

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values





