



Product Information Packet

CM3542

.75HP,1725RPM,3PH,60HZ,56C,3420M,TEFC,F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WGR707	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34A062	Layout:	34LYA062	Poles:	04	Created Date:	11-19-2020
Base:	RG	Eff. Date:	02-17-2021	Leads:	9#18		

Specs			
Catalog Number:	CM3542	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	B
Frame:	56C	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	M
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.750 HP @ 60 HZ	Locked Bearing Indicator:	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
	208.0 V @ 60 HZ	Motor Type:	3420M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	64
Agency Approvals:	CSA	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	3.200 A @ 208.0 V	Shaft Rotation:	Reversible
	3.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	1.500 A @ 460.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	CM3542											
SPEC.	34A062R707											
HP	.75											
VOLTS	208-230/460											
AMP	3.2-3/1.5											
RPM	1725											
FRAME	56C				HZ		60			PH	3	
SER.F.	1.25		CODE		M		DES		B		CLASS	B
NEMA-NOM-EFF	75.5			PF		64						
RATING	40C AMB-CONT											
CC				USABLE AT 208V								
DE	6203				ODE		6203					
ENCL	TEFC		SN									
	SFA 3.6-3.4/1.7											

AC Induction Motor Performance Data

Record # 85439

Preliminary Data Sheet

Winding: 34WGR707-R001			Type: 3420M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		0.75	Full Load Torque		2.27 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		3.2-3.0/1.5	Breakdown Torque		9.93 LB-FT			
R.P.M.		1725	Pull-up Torque		7.06 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		9.17 LB-FT		
NEMA Design Code		B	KVA Code	M	Starting Current		9.78 A	
Service Factor (S.F.)		1.25	No-load Current		1.08 A			
NEMA Nom. Eff.		77	Power Factor		61	Line-line Res. @ 25°C		21.8 Ω
Rating - Duty		40C-AMB CONT	Temp. Rise @ Rated Load		69°C			
S.F. Amps		3.6-3.4/1.7	Temp. Rise @ S.F. Load		105°C			
			Locked-rotor Power Factor		76.9			
			Rotor inertia		0.0476 lb-ft²			

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	44	57	66	73	79	73
Efficiency	57.5	70.7	75.3	76.7	76.5	75.2	76.5
Speed	1780	1763	1745	1726	1723	1700	1723
Line amperes	1.09	1.15	1.26	1.4	1.58	1.79	1.58

Performance Graph at 460V, 60Hz, 0.75HP Typical performance - Not guaranteed values





