



Product Information Packet

VM3581T

1HP,1740RPM,3PH,60HZ,143TC,0514M,TEFC,F1

Part Detail							
Revision:	B	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WG029	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	05C053	Layout:	05LYC053	Poles:	04	Created Date:	01-14-2008
Base:	N	Eff. Date:	05-14-2009	Leads:	9#18		

Specs			
Catalog Number:	VM3581T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	143TC	KVA Code:	L
Frame Material:	Iron	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.000 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:	0514M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	67
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	1.820 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	3.640 A @ 230.0 V	Shaft Rotation:	Reversible
	3.900 A @ 208.0 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
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	VM3581T											
SPEC.	05C053X029G1											
HP	1											
VOLTS	208-230/460											
AMP	3.9-3.64/1.82											
RPM	1740											
FRAME	143TC				HZ		60		PH	3		
SER.F.	1.15		CODE		L		DES		B		CLASS	F
NEMA-NOM-EFF	75.5			PF		67						
RATING	40C AMB-CONT											
CC				USABLE AT 208V								
DE	6205			ODE		6203						
ENCL	TEFC		SN									

Parts List		
Part Number	Description	Quantity
SA167113	SA 05C053X029G1	1.000 EA
RA155459	RA 05C053X029G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
06CB3000	BALDOR CONDUIT BOX CAST	1.000 EA
06GS1000	GASKET,CONDUIT BOX	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
35EP1100A02	FR ENDPLATE, TEFC W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1329A01	PU EP ENCL 143-5TC 205 BRG W/GRSR & STD	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A02	IEC FH W/GREASER - W/PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
06CB3500	BALDOR CONDUIT BOX LID	1.000 EA
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.022 GA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 26149 - Typical performance - not guaranteed values

Winding: 05WGX029-R001	Type: 0514M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	2.99 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	3.90-3.64/1.82			Breakdown Torque	12.8 LB-FT
R.P.M.	1740			Pull-up Torque	8.38 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	9.9 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	12 A
Service Factor (S.F.)	1.15			No-load Current	1.48 A
NEMA Nom. Eff.	75.5	Power Factor	68	Line-line Res. @ 25°C	20 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	50°C
S.F. Amps				Temp. Rise @ S.F. Load	61°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	45	57	67	75	80	72
Efficiency	53.3	68	73.6	76	76.6	76	76.4
Speed	1785	1771	1756	1740	1722	1702	1729
Line amperes	1.48	1.56	1.67	1.82	2.04	2.29	1.95

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





