



Product Information Packet

VM8003T

1HP,1750RPM,3PH,60HZ,143TC,0516M,TEFC,F1

Part Detail							
Revision:	L	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WG020	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	05E533	Layout:	05LYE533	Poles:	04	Created Date:	06-02-2010
Base:	N	Eff. Date:	03-17-2016	Leads:	9#18		

Specs			
Catalog Number:	VM8003T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	143TC	KVA Code:	M
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:	0516M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	73
	UR	Product Family:	Dirty Duty (Not For DC)
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	N	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	1.560 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	3.120 A @ 230.0 V	Shaft Rotation:	Reversible
	3.380 A @ 208.0 V	Shaft Slinger Indicator:	Shaft 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 NP1261E

CAT.NO.	VM8003T										
SPEC.	05E533X020H1										
HP	1										
VOLTS	208-230/460										
AMP	3.38-3.12/1.56										
RPM	1750										
FRAME	143TC					HZ	60		PH	3	
SER.F.	1.15					CODE	M	DES	B	CL	F
NEMA-NOM-EFF	82.5					PF	73				
RATING	40C AMB-CONT										
CC	010A					USABLE AT 208V					
DE	6205					ODE	6203				
ENCL	TEFC					SN					

Parts List		
Part Number	Description	Quantity
SA197609	SA 05E533X020H1	1.000 EA
RA184994	RA 05E533X020H1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
06CB1000A07G	CONDUIT BOX, MACH (GRAY EPOXY).	1.000 EA
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	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
35EP1100A41G	FR ENDPLATE, MACH, GRAY EPOXY	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1329A01G	PUEP ENCL, MACH, GRAY EPOXY (STD BA FOR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
35FH1000A01G	35FH1000A01 W/GRAY FLUIDIZ	1.000 EA
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	3.000 EA
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 EA
06CB1500A01G	CONDUIT BOX LID, MACH GRAY	1.000 EA
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 EA
10XN2520A12	O1/4-20X 3/4 HEX HEAD CAP	2.000 EA
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 EA
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
LB1000	LABEL, DIRTY DUTY	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1261E	SS UL CSA CC	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 # 25502 - Typical performance - not guaranteed values

Winding: 05WGX020-R001	Type: 3516M	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	3.38-3.12/1.56			Breakdown Torque	17.8 LB-FT
R.P.M.	1750			Pull-up Torque	8.32 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	10.4 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	13.2 A
Service Factor (S.F.)	1.15			No-load Current	1.04 A
NEMA Nom. Eff.	82.5	Power Factor	73	Line-line Res. @ 25°C	16.3 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	33°C
S.F. Amps				Temp. Rise @ S.F. Load	41°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	63	73	79	83	77
Efficiency	66.7	77.9	81.3	82.6	82.6	81.6	82.6
Speed	1788	1776	1764	1750	1735	1719	1741
Line amperes	1.11	1.2	1.36	1.56	1.77	2.06	1.69

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





