



Product Information Packet

VEM3555-57

2HP,2900RPM,3PH,50HZ,56C,3532M,TEFC,F1,N

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGQ064	CD Diagram:	CD0022	Mfg Plant:	
Mech. Spec:	35A013	Layout:	35LYA013	Poles:	02	Created Date:	12-23-2015
Base:	N	Eff. Date:	06-12-2018	Leads:	6#18		

Specs			
Catalog Number:	VEM3555-57	Insulation Class:	B
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	M
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 50 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3000 RPM @ 50 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Voltage @ Frequency:	400.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3532M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	88
	WEEE	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
	CE	Pulley Face Code:	C-Face
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	No Mounting	RoHS Status:	ROHS COMPLIANT
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	2.900 A @ 400.0 V	Shaft Rotation:	Reversible
	5.000 A @ 230.0 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 NP2716L

CAT NO	VEM3555-57										
SPEC.	35A013Q064G1										
HP	2							PH	3		
VOLTS	230/400										
AMP	5/2.9										
RPM	2900										
FRAME	56C				HZ	50		I.P.	54		
SER.F.	1.15		CODE	M		DES	B		CL	B	
NOM.EFF.	84.2				% (100%)						
PF	88				USABLE AT 208V						
RATING	40C AMB-CONT							CC			
DE BRG	6205				ODE	6203					
ENCL	TEFC		SN								
BLANK	IE3-83.5(75%)79.8(50%)										

Parts List		
Part Number	Description	Quantity
SA312735	SA 35A013Q064G1	1.000 EA
RA300175	RA 35A013Q064G1	1.000 EA
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0034	CONNECTION LABEL	1.000 EA
NP2716L	ALUM SUPER-E NEMA IE3 UL CSA CC CE	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE	1.000 EA
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS 5,400/RL	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 54633 - Typical performance - not guaranteed values

Winding: 35WGQ064-R004	Type: 3532M	Enclosure: TEFC
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Nameplate Data				400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3.55 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	5/2.9			Breakdown Torque	17.8 LB-FT
R.P.M.	2900			Pull-up Torque	11.5 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	16.4 LB-FT
NEMA Design Code	N	KVA Code	M	Starting Current	30.7 A
Service Factor (S.F.)	1.15			No-load Current	1.4 A
NEMA Nom. Eff.	84.2	Power Factor	88	Line-line Res. @ 25°C	4.8 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	44°C
S.F. Amps				Temp. Rise @ S.F. Load	51°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.0876 LB-FT ²

Load Characteristics 400 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	83	88	90	92	89
Efficiency	70.4	80.6	83.9	84.9	84.8	84	84.8
Speed	2976	2954	2931	2908	2881	2855	2892
Line amperes	1.53	1.87	2.3	2.84	3.42	4.05	3.19

Performance Graph at 400V, 50Hz, 2.0HP Typical performance - Not guaranteed values





