

BALDOR® • RELIANCE 

Product Information Packet

VEM3550T-57

1.5HP,2850RPM,3PH,50HZ,143TC,3524M,TEFC

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	Yes
Type:	AC	Elec. Spec:	35WGP217	CD Diagram:	CD0022	Mfg Plant:	
Mech. Spec:	35AA003	Layout:	35LYAA003	Poles:	02	Created Date:	12-22-2015
Base:	N	Eff. Date:	06-13-2018	Leads:	6#18		

Specs			
Catalog Number:	VEM3550T-57	Insulation Class:	B
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	143TC	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.500 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:	3524M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CE	Power Factor:	84
	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:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	2.300 A @ 400.0 V	Shaft Ground Indicator:	No Shaft Grounding
	4.000 A @ 230.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP2157L										
CAT NO	VEM3550T-57									
SPEC.	35AA003P217G2									
KW	1.5HP						PH	3		
VOLTS DELTA	230/400									
AMP	4/2.3									
R/MIN	2850				WEIGHT					
FRAME	143TC			HZ	50		I.P.			54
SER.F.	1.15		CODE	L		DES	B		CL	B
IEC EFF	85.5				% (100%)					
COS	84									
RATING	40C AMB-CONT						MTG	F1		
DE BRG	6205			ODE	6203					
ENCL	TEFC		SN							
BLANK										

Parts List		
Part Number	Description	Quantity
SA312671	SA 35AA003P217G2	1.000 EA
RA300109	RA 35AA003P217G2	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	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
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307D00	MASTER DE,205 BRG,.998SH,#26 DRN,GRSR	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
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES 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
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0034	CONNECTION LABEL	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA
NP2157L	ALUM SUPER-E IEC IE3 UL CSA CE	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	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
LB1594	MYLAR WEEE WHEELIE BIN SYMBOL FOR CE MOT	1.000 EA

AC Induction Motor Performance Data

Record # 54624 - Typical performance - not guaranteed values

Winding: 35WGP217-R006	Type: 3524M	Enclosure: TEFC
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Nameplate Data				400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.78 LB-FT
Volts	230/400			Start Configuration	direct on line
Full Load Amps	4/2.3			Breakdown Torque	11.3 LB-FT
R.P.M.	2850			Pull-up Torque	9.61 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	12.1 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	20.2 A
Service Factor (S.F.)	1.15			No-load Current	0.949 A
NEMA Nom. Eff.	85.5	Power Factor	84	Line-line Res. @ 25°C	7.48 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	43°C
S.F. Amps				Temp. Rise @ S.F. Load	51°C
				Locked-rotor Power Factor	55.1
				Rotor inertia	0.0664 LB-FT ²

Load Characteristics 400 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	70	81	85	88	91	87
Efficiency	76.9	84.5	85.8	85.9	84.7	82.9	85.2
Speed	2969	2943	2916	2888	2856	2823	2869
Line amperes	1.11	1.42	1.79	2.26	2.75	3.24	2.55

Performance Graph at 400V, 50Hz, 1.5HP Typical performance - Not guaranteed values

