



Customer information packet

VEM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F

ELECTRIC MOTOR WHOLESale.COM

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	25.000 A @ 230.0 V 27.000 A @ 208.0 V 12.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	A
Type	AC
Mech. spec.	37A003
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYA003
Eff. date	12-14-2020
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-11-2020

High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.26 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA

CAT.NO.	VEM3714T									
SPEC	37A003L865G1									
HP	10									
VOLTS	230/460									
AMPS	25/12.5									
RPM	1770									
FRAME	215TC		HZ		60			PH		3
SF	1.15	CODE		K	DES	A	CLASS		F	
NEMA NOM. EFF	91.7	PF		85						
RATING	40C AMB-CONT									
CC	010A	USABLE AT 208V					27			
ENCL	TEFC	SER								
DE	6307	ODE			6206					
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 10HP 190/380V 29.8/14.9A									
	SF1.0									

Parts list

Part number	Description	Quantity
SA387942	SA 37A003L865G1	1.000 ea
RA378282	RA 37A003L865G1	1.000 ea
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	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
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37PE3300A01	PUEP ASSEMBLY FOR ROUTING	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 lb
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 ga
HA3104A25	THRUBOLT .31-18 X 14.75	4.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea

PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea

AC Induction Motor Performance Data

Record # 85459

Preliminary Data Sheet

Winding: 37WGL865-RXXX				Type: 3752M		Enclosure: TEFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		10		Full Load Torque		29.7 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		25.0/12.5		Breakdown Torque		102 LB-FT					
R.P.M.		1770		Pull-up Torque		46.9 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		62.2 LB-FT			
NEMA Design Code		A		KVA Code		K		Starting Current		101 A	
Service Factor (S.F.)		1.15		No-load Current		5.33 A					
NEMA Nom. Eff.		91.7		Power Factor		85		Line-line Res. @ 25°C		0.982 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C					
S.F. Amps		28.2/14.6		Temp. Rise @ S.F. Load		92°C					
				Locked-rotor Power Factor		42					
				Rotor inertia		1.28 lb-ft²					

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	82	84	85	84
Efficiency	88.7	92.3	92.7	92.2	91.3	90	91.4
Speed	1793	1786	1778	1770	1761	1751	1762
Line amperes	6.05	7.73	9.9	12.5	15.3	18.3	14.1

ABB Motors and Mechanical Inc.

WINDING # 37WGL865

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M

TORQUES (LB-FT): PO=102 PU=46.9 LR=62.2 LRA=101





