



Customer information packet

VEM3711T

10HP, 3505RPM, 3PH, 60HZ, 215TC, 3732M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	24.400 A @ 208.0 V 23.800 A @ 230.0 V 11.900 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	C
Type	AC
Mech. spec.	37H329
Base	
Status	PRD/A
Elec. spec.	37WGL871
Layout	37LYH329
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-04-2021

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3732M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.63 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3505 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.	VEM3711T									
SPEC	37H329L871G1									
HP	10									
VOLTS	208-230/460									
AMPS	24.4-23.8/11.9									
RPM	3505									
FRAME	215TC		HZ	60			PH	3		
SF	1.15		CODE	J	DES	A	CLASS	F		
NEMA NOM. EFF	90.2		PF	87						
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC		SER							
DE	6307		ODE	6206						
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 10HP 190/380V 29.4/14.7A								SF1.0	

AC Induction Motor Performance Data

Record # 86037

Preliminary Data Sheet

Winding: 37WGL871-R001			Type: 3732M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		15 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		24.4-23.8/11.9	Breakdown Torque		59.7 LB-FT		
R.P.M.		3505	Pull-up Torque		31.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		35 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		95.5 A
Service Factor (S.F.)		1.15	No-load Current		4.43 A		
NEMA Nom. Eff.		90.2	Power Factor	87	Line-line Res. @ 25°C		0.846 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		72°C
S.F. Amps		27/13.5	Temp. Rise @ S.F. Load		94°C		
			Locked-rotor Power Factor		41.6		
			Rotor inertia		0.292 lb-ft²		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	86	88	89	88
Efficiency	87	91.1	91.6	91	90	88.7	91.5
Speed	3576	3554	3530	3504	3477	3447	3488
Line amperes	5.26	7.07	9.36	11.9	14.8	17.8	13.6

ABB Motors and Mechanical Inc.

WINDING # 37WGL871

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3505 RPM 460 V 3732M

TORQUES (LB-FT): PO=59.7 PU=31.7 LR=35 LRA=95.5





