



Customer information packet

VEDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3752M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	25.400 A @ 208.0 V 24.000 A @ 230.0 V 12.000 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

Part detail

Revision	J
Type	AC
Mech. spec.	37N865
Base	
Status	PRD/A
Elec. spec.	37WGS518
Layout	37LYN865
Eff. date	07-09-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-22-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
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	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
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 Extension Location	Pulley End
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

NP3504											
CAT NO	VEDM3714T										
SPEC.	37N865S518G1					ENCL	TEFC				
FRAME	215TC	HP		10							
VOLTS	230/460										
FLA	24/12				I.P.		56				
RPM	1770	RPM MAX				2700					
HZ	60	PH	3	CLASS			F				
SER.F.	1.15	DES	A	CC	010A						
NEMA-NOM-EFF	91.7										
RATING	40C AMB-CONT										
DE BRG	6307	ODE BRG				6206					
GREASE	POLYREX EM										
C HP FR	60	C HP TO			90						
CT HZ FROM	6	CT HZ TO			60	VT HZ FROM	6	VT HZ TO			60
SER.NO											
	50C AT 1.0 SF										

AC Induction Motor Performance Data

Record # 55763

Typical performance - not guaranteed values

Winding: 37WGS518-R074			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.45 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		24/12	Breakdown Torque		134 LB-FT		
R.P.M.		1770	Pull-up Torque		49.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		68.7 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		103 A
Service Factor (S.F.)		1.15	No-load Current		5.49 A		
NEMA Nom. Eff.		91.7	Power Factor	85	Line-line Res. @ 25°C		0.93503 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps					Temp. Rise @ S.F. Load		81°C
					Locked-rotor Power Factor		35.2
					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	42	66	79	85	84	87	84
Efficiency	88.9	92.1	92.4	91.8	90.3	89	90.9
Speed	1793.9	1786.8	1779.7	1771.8	1762.7	1752.5	1766
Line amperes	6.14	7.8	9.9	12.3	15	17.9	13.9

ABB Motors and Mechanical Inc.

WINDING # 37WGS518

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=134 PU=49.2 LR=68.7 LRA=103





