



Product Information Packet

EM3714T-G

10HP,1770RPM,3PH,60HZ,215T,3752M,TEFC,F1

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGL865	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37J838	Layout:	37LYJ838	Poles:	04	Created Date:	11-11-2020
Base:	RG	Eff. Date:	02-07-2022	Leads:	9#14		

Specs			
Catalog Number:	EM3714T-G	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	H
Frame:	215T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	K
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	10.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3752M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	85
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	Shaft Grounding
Current @ Voltage:	12.500 A @ 460.0 V	Shaft Rotation:	Reversible
	25.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	27.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	EM3714T-G											
SPEC	37J838L865G1											
HP	10											
VOLTS	230/460											
AMPS	25/12.5											
RPM	1770											
FRAME	215T				HZ	60				PH	3	
SF	1.15			CODE	K	DES	A		CLASS	H		
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	SFA 28.4/14.2											
CT6-60H(10:1)VT3-60H(20:1											SF1.0	

AC Induction Motor Performance Data

Record # 86460

Preliminary Data Sheet

Winding: 37WGL865-R002			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

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values





