



Product Information Packet

EM3710T

7.5HP,1770RPM,3PH,60HZ,213T,3738M,TEFC,F

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGL864	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37H244	Layout:	37LYH244	Poles:	04	Created Date:	11-11-2020
Base:	RG	Eff. Date:	06-23-2022	Leads:	9#14		

Specs			
Catalog Number:	EM3710T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	213T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	J
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	7.500 HP @ 60 HZ	Locked Bearing Indicator:	No 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:	3738M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	80
	CSA EEV	Product Family:	General Purpose
	UR	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)	RoHS Status:	ROHS COMPLIANT

Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	9.500 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	20.000 A @ 208.0 V	Shaft Rotation:	Reversible
	19.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	EM3710T										
SPEC	37H244L864G1										
HP	7.5										
VOLTS	230/460										
AMPS	19/9.5										
RPM	1770										
FRAME	213T				HZ		60			PH	3
SF	1.15			CODE	J	DES		A	CLASS	F	
NEMA NOM. EFF	91.7			PF	80						
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V							20
ENCL	TEFC			SER							
DE	6307				ODE		6206				
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	50HZ 7.5HP 190/380V 22.4/11.2A										

AC Induction Motor Performance Data

Record # 85467

Preliminary Data Sheet

Winding: 37WGL864-R001			Type: 3738M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5	Full Load Torque		22.2 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		19.0/9.5	Breakdown Torque		69.8 LB-FT	
R.P.M.		1770	Pull-up Torque		31.5 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		41 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		70.7 A	
Service Factor (S.F.)		1.15	No-load Current		4.32 A	
NEMA Nom. Eff.		91.7 Power Factor	80		Line-line Res. @ 25°C	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		64°C	
S.F. Amps		21.4/10.7	Temp. Rise @ S.F. Load		84°C	
			Locked-rotor Power Factor		41.9	
			Rotor inertia		0.934 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	83
Efficiency	87.1	91.4	92	91.7	90.7	89.6	90.7
Speed	1793	1786	1778	1770	1760	1750	1761
Line amperes	4.83	6.03	7.64	9.5	11.6	13.9	10.7

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values





