



Customer information packet

EM3711T-58

10HP, 2900RPM, 3PH, 50HZ, 215T, 3740M, TEFC, F1

ELECTRIC MOTOR WHOLESALE.COM

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	50.00 Hz
Output @ Frequency	10.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR
	CE
	CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.100 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	L
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGR698
Layout	37LYA001
Eff. date	09-25-2019
CD Diagram	CD0382
Poles	02
Leads	6#14
Proprietary	False
Created date	12-08-2014

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.01 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	2900 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3444L										
CAT NO	EM3711T-58									
SPEC.	37A001R698G1									
HP	10/7.5KW						PH	3		
VOLTS	400 64KG									
AMP	13.1									
RPM	2900									
FRAME	215T		HZ	50			I.P.	54		
SER.F.	1.15	CODE	H	DES	B	CL	F			
NOM.EFF.	90.2									
PF	89	USABLE AT 208V								
RATING	40C AMB-CONT				CC					
DE BRG	6307		ODE	6206						
ENCL	TEFC	SN								
VPWM INVERTER READY										
CT5-50(10:1)VT2.5-50(20:1										
BLANK	IE3-93.2(75%)93.7(50%)									

Parts list

Part number	Description	Quantity
SA290882	SA 37A001R698G1	1.000 ea
RA277033	RA 37A001R698G1	1.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	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
37PE3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 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
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
LB1119N	WARNING LABEL	1.000 ea
LC0382	CONNECTION LABEL	1.000 ea

NP3444L	ALUM SUPER-E VPWM INV READY NEMA IE3 UL	1.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 ea
LB1594	MYLAR WEEE WHEELIE BIN SYMBOL FOR CE MOT	1.000 ea

AC Induction Motor Performance Data

Record # 48453

Typical performance - not guaranteed values

Winding: 37WGR698-R001				Type: 3740M		Enclosure: TEFC		
Nameplate Data				400 V, 50 Hz: Single Voltage Motor				
Rated Output (HP)		10		Full Load Torque		18 LB-FT		
Volts		400		Start Configuration		direct on line		
Full Load Amps		13.1		Breakdown Torque		63.8 LB-FT		
R.P.M.		2900		Pull-up Torque		33.2 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		38.4 LB-FT		
NEMA Design Code		B		KVA Code	H		Starting Current	99.1 A
Service Factor (S.F.)		1.15		No-load Current		4.38 A		
NEMA Nom. Eff.		90.2		Power Factor	89		Line-line Res. @ 25°C	0.662 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		79°C
S.F. Amps						Temp. Rise @ S.F. Load		97°C
						Locked-rotor Power Factor		35.3
						Rotor inertia		0.364 LB-FT2

Load Characteristics 400 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	76	86	89	90	91	90
Efficiency	91.4	93.7	93.2	92.5	90.9	89	91.5
Speed	2981	2957	2932	2905	2875	2840	2887
Line amperes	5.29	7.45	10	13.1	16.3	19.8	15

ABB Motors and Mechanical Inc.

WINDING # 37WGR698

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 2900 RPM 400 V 3740M

TORQUES (LB-FT): PO=63.8 PU=33.2 LR=38.4 LRA=99.1





