



Customer information packet

EM3709T-58

7.5HP, 2900RPM, 3PH, 50HZ, 213T, 3728M, TEFC, F

ELECTRIC MOTOR WHOLESale.COM

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	7.500 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	C UR US CE CURUS IE3 UKCA WEEE
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	10.400 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	G
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGR575
Layout	37LYA001
Eff. date	07-06-2023
CD Diagram	CD0382
Poles	02
Leads	6#14
Proprietary	False
Created date	12-22-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	10.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	80
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

NP2716L									
CAT NO	EM3709T-58								
SPEC.	37A001R575G1								
HP	7.5/5.5KW					PH	3		
VOLTS	400								
AMP	10.4								
R.P.M. (1/MIN)	2900								
FRAME	213T		HZ	50		I.P.	44		
SER.F.	1.15	CODE	J	DES	B	CL	F		
NOM.EFF.	89.2		% (100%)						
PF	80								
RATING	40C AMB-S1 CONT				CC				
DE BRG	6307		ODE	6206					
ENCL	TEFC	SN							
BLANK	IE3-91.5(75%)90.8(50%)								
	IC411 55KG								

Parts list

Part number	Description	Quantity
SA312326	SA 37A001R575G1	1.000 ea
RA299767	RA 37A001R575G1	1.000 ea
36FN3000B02	EXFN, PLASTIC, 6.00 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
37EP3100A01	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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.028 ga
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
LC0382	CONNECTION LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 ea
NP2716L	ALUM SUPER-E NEMA IE3 UL CC CE UKCA WEEE	1.000 ea

37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 54639

Typical performance - not guaranteed values

Winding: 37WGR575-R002				Type: 3728M		Enclosure: TEFC					
Nameplate Data				400 V, 50 Hz: Single Voltage Motor							
Rated Output (HP)		7.5		Full Load Torque		13.1 LB-FT					
Volts		400		Start Configuration		direct on line					
Full Load Amps		10.4		Breakdown Torque		44.7 LB-FT					
R.P.M.		2900		Pull-up Torque		25.6 LB-FT					
Hz		50 Phase		3		Locked-rotor Torque		27.1 LB-FT			
NEMA Design Code		B		KVA Code		J		Starting Current		73.2 A	
Service Factor (S.F.)		1.15						No-load Current		4.61 A	
NEMA Nom. Eff.		89.2		Power Factor		8		Line-line Res. @ 25°C		1.05 Ω	
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load		56°C	
S.F. Amps								Temp. Rise @ S.F. Load		69°C	
								Locked-rotor Power Factor		37.7	
								Rotor inertia		0.255 LB-FT2	

Load Characteristics 400 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	65	77	83	86	87	85
Efficiency	86.2	91.4	91.7	89.8	89.7	88.9	89.7
Speed	2980	2960	2938	2916	2890	2863	2900
Line amperes	5.08	6.33	8.22	10.4	12.8	15.4	11.8

ABB Motors and Mechanical Inc.

WINDING # 37WGR575

Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 2900 RPM 400 V 3728M

TORQUES (LB-FT): PO=44.7 PU=25.6 LR=27.1 LRA=73.2





