



Customer information packet

EM3708T

5HP, 1165RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	7.200 A @ 460.0 V 15.600 A @ 208.0 V 14.400 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	F
Type	AC
Mech. spec.	37H244
Base	
Status	PRD/A
Elec. spec.	37WGQ067
Layout	37LYH244
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	06
Leads	9#14 Y
Proprietary	False
Created date	08-02-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
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	6
Overall Length	20.52 IN
Power Factor	71
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	1165 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

NP3441LUA

CAT.NO. EM3708T

SPEC 37H244Q067G1

HP 5

VOLTS 230/460

AMPS 14.4/7.2

RPM 1165

FRAME 215T HZ 60 PH 3

SF 1.15 CODE K DES A CLASS F

NEMA NOM. EFF 89.5 PF 71

RATING 40C AMB-CONT

CC 010A

ENCL TEFC SER

DE 6307 ODE 6206

VPWM INVERTER READY

CT6-60H(10:1)VT3-60H(20:1)

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 67641

Typical performance - not guaranteed values

Winding: 37WGQ067-R001			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.48 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.4/7.2	Breakdown Torque		80.1 LB-FT		
R.P.M.		1165	Pull-up Torque		51.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		55.8 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		54.4 A
Service Factor (S.F.)		1.15	No-load Current		3.98 A		
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		3.6757 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		59°C
S.F. Amps					Temp. Rise @ S.F. Load		73°C
					Locked-rotor Power Factor		21.9

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	64	70	74	76	72
Efficiency	84.4	89.3	90.2	89.7	88.6	87.1	89
Speed	1191.6	1183.1	1174.9	1164.8	1154	1141.3	1158
Line amperes	4.28	5.07	6.08	7.39	8.87	10.6	8.28

ABB Motors and Mechanical Inc.

WINDING # 37WGQ067

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1165 RPM 460 V 3752M

TORQUES (LB-FT): PO=80.1 PU=51.2 LR=55.8 LRA=54.4





