



Customer information packet

CEM3708T-G

5HP, 1160RPM, 3PH, 60HZ, 215TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Iron
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 CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.100 A @ 460.0 V 14.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	7.1 a

Part detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY242
Layout	07LYM068
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	12-16-2019

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.20 IN
Power Factor	74
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1160 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.	CEM3708T-G									
SPEC	07-0000-0412									
HP	5									
VOLTS	230/460									
AMPS	14.2/7.1									
RPM	1160									
FRAME	215TC		HZ	60			PH	3		
SF	1.15		CODE	J	DES	B	CLASS	H		
NEMA NOM. EFF	89.5		PF	74						
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC		SER							
DE	6307		ODE	6206						
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 5HP 190/380V 17.4/8.7A								SF1.0	

AC Induction Motor Performance Data

Record # 70871

Typical performance - not guaranteed values

Winding: 07WGY242-R021			Type: 0748M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.9 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.2/7.1	Breakdown Torque		68.1 LB-FT		
R.P.M.		1160	Pull-up Torque		40.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		48.9 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		45.7 A
Service Factor (S.F.)		1.15	No-load Current		3.19 A		
NEMA Nom. Eff.		89.5	Power Factor	74	Line-line Res. @ 25°C		1.91 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		53°C
S.F. Amps					Temp. Rise @ S.F. Load		67°C
					Locked-rotor Power Factor		21.7
					Rotor inertia		1.19 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	58	69	74	76	76	75
Efficiency	86.7	90.4	90.9	89.8	88.2	86.1	88.8
Speed	1189	1179	1170	1158	1144	1126	1150
Line amperes	3.53	4.38	5.57	7.08	8.71	10.7	8.06

ABB Motors and Mechanical Inc.

WINDING # 07WGY242

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1160 RPM 460 V 0748M

TORQUES (LB-FT): PO=68.1 PU=40.7 LR=48.9 LRA=45.7





