



Customer information packet

EM3771T

10HP, 3485RPM, 3PH, 60HZ, 215T, 0730M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	25.200 A @ 208.0 V 23.400 A @ 230.0 V 11.700 A @ 460.0 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 Shaft Indicator	None

Part detail

Revision	D
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGT513
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-05-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	11.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.45 IN
Power Factor	87
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3485 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.	EM3771T									
SPEC	07H002T513G1									
HP	10									
VOLTS	230/460									
AMPS	23.4/11.7									
RPM	3485									
FRAME	215T		HZ	60		PH	3			
SF	1.15	CODE	G	DES	B	CLASS	F			
NEMA NOM. EFF	90.2	PF	87							
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
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 86039

Preliminary Data Sheet

Winding: 07WGT513-R001		Type: 0730M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10	Full Load Torque	15.1 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	23.4/11.7	Breakdown Torque	43.8 LB-FT
R.P.M.	3485	Pull-up Torque	18.6 LB-FT
Hz	60 Phase	Locked-rotor Torque	21.4 LB-FT
NEMA Design Code	B KVA Code	Starting Current	75.2 A
Service Factor (S.F.)	1.15	No-load Current	3.73 A
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	1.19 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	72°C
S.F. Amps		Temp. Rise @ S.F. Load	97°C
		Locked-rotor Power Factor	38.5
		Rotor inertia	0.273 lb-ft ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	86	88	90	90	89
Efficiency	88.8	91.7	91.5	90.3	88.7	86.7	89.6
Speed	3575	3548	3519	3487	3450	3410	3464
Line amperes	4.6	6.55	8.98	11.7	14.8	18.1	13.5

ABB Motors and Mechanical Inc.

WINDING # 07WGT513

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3485 RPM 460 V 0730M

TORQUES (LB-FT): PO=43.8 PU=18.6 LR=21.4 LRA=75.2





