



Customer information packet

EM3774T

10HP, 1765RPM, 3PH, 60HZ, 215T, 0748M, 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	1800 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	27.000 A @ 208.0 V 24.600 A @ 230.0 V 12.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	K
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGT511
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	11-11-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	12.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
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	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.45 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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.	EM3774T										
SPEC	07H002T511G1										
HP	10										
VOLTS	230/460										
AMPS	24.6/12.3										
RPM	1765										
FRAME	215T		HZ		60		PH		3		
SF	1.15	CODE	H	DES	B	CLASS		F			
NEMA NOM. EFF	91.7	PF	83								
RATING	40C AMB-CONT										
CC	010A										
ENCL	TEFC	SER									
DE	6307		ODE		6206						
VPWM INVERTER READY	SFA 28.2/14.1										
CT6-60H(10:1)VT3-60H(20:1											
50HZ 10HP 190/380V 29.8/14.9A										SF1.0	

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 85502

Preliminary Data Sheet

Winding: 07WGT511-R001				Type: 0748M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		10		Full Load Torque		29.8 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		24.6/12.3		Breakdown Torque		84.1 LB-FT			
R.P.M.		1765		Pull-up Torque		39.8 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		50.9 LB-FT	
NEMA Design Code		B		KVA Code		H		Starting Current	85.9 A
Service Factor (S.F.)		1.15						No-load Current	4.67 A
NEMA Nom. Eff.		91.7		Power Factor		83		Line-line Res. @ 25°C	1.11 Ω
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load	70°C
S.F. Amps		28.3/14.15						Temp. Rise @ S.F. Load	93°C
								Locked-rotor Power Factor	40.4
								Rotor inertia	1.18 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	79	83	85	85	84
Efficiency	89.8	92.6	92.6	91.7	90.4	88.8	90.7
Speed	1791	1783	1774	1763	1752	1739	1753
Line amperes	5.44	7.24	9.6	12.3	15.3	18.6	14.1

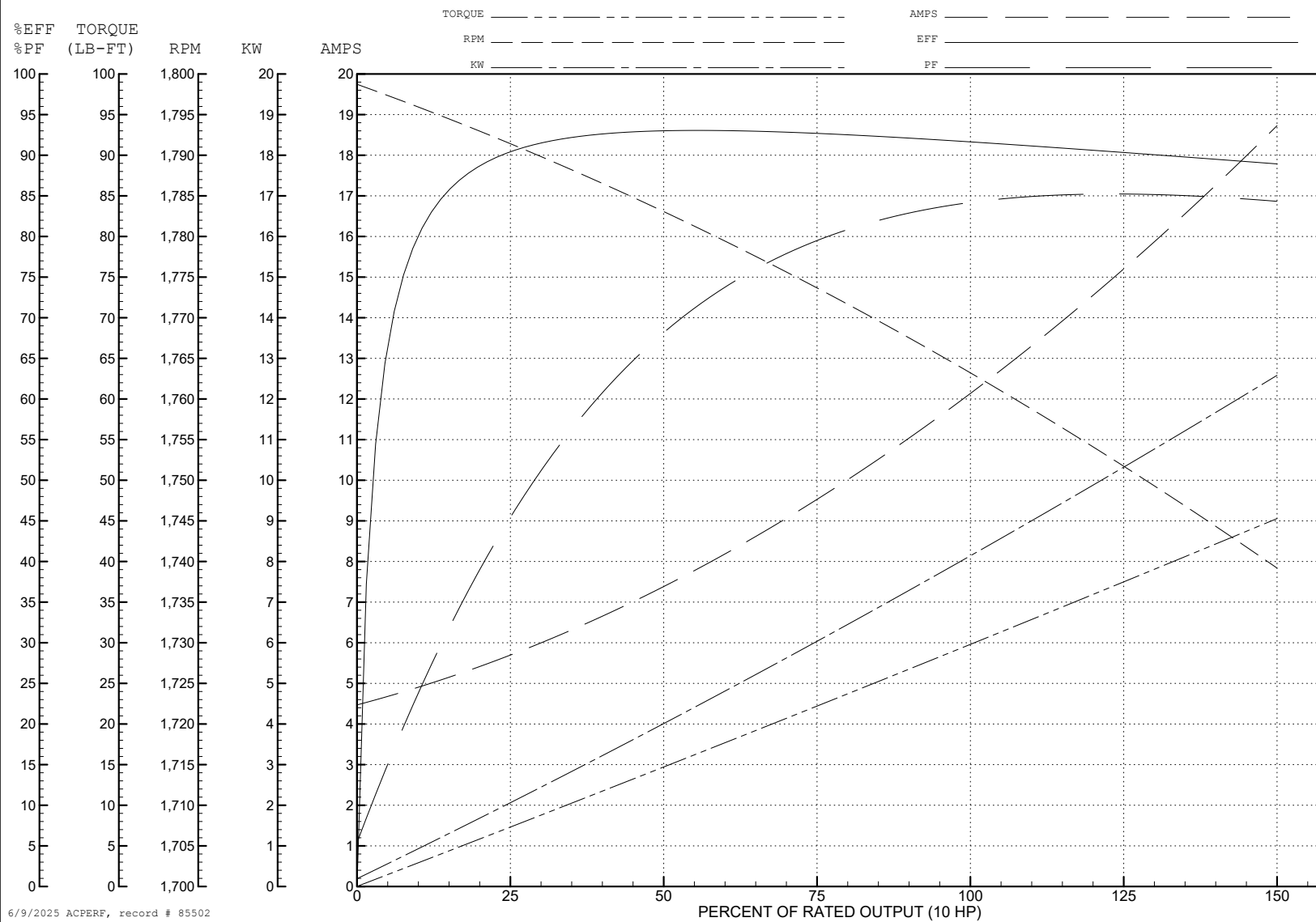
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WINDING # 07WGT511

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1765 RPM 460 V 0748M

TORQUES (LB-FT): PO=84.1 PU=39.8 LR=50.9 LRA=85.9



AC Induction Motor Performance Data

Record # 88389

Typical performance - not guaranteed values

Winding: 07WGT511-R001				Type: 0748M		Enclosure: TEFC			
Nameplate Data				400 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		10		Full Load Torque		35.99 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		24.6/12.3		Breakdown Torque		89.52 LB-FT			
R.P.M.		1765		Pull-up Torque		46.23 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		59.13 LB-FT	
NEMA Design Code		B		KVA Code		H		Starting Current	88.53 A
Service Factor (S.F.)		1.15						No-load Current	5.03 A
NEMA Nom. Eff.		91.7		Power Factor		83		Line-line Res. @ 25°C	1.09 Ω
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load	91°C
S.F. Amps								Temp. Rise @ S.F. Load	117°C
								Locked-rotor Power Factor	35.2
								Rotor inertia	1.18 lb-ft²

Load Characteristics 400 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	80	84	85	85	85
Efficiency	90	92.4	91.9	90.4	88.9	86.5	89.5
Speed	1491	1482	1472	1460	1448	1433	1453
Line amperes	5.96	8.13	10.95	14.22	17.88	21.98	16.4

ABB Motors and Mechanical Inc.

WINDING # 07WGT511

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1765 RPM 400 V 0748M

TORQUES (LB-FT): PO=89.52 PU=46.23 LR=59.13 LRA=88.53

