



Customer information packet

ECTM3774T

10HP, 1765RPM, 3PH, 60HZ, 213T, 0748M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	213T
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	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	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
Heater Indicator	No Heater

Part detail

Revision	D
Type	AC
Mech. spec.	07N391
Base	
Status	PRD/A
Elec. spec.	07WGT511
Layout	07LYN391
Eff. date	06-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-08-2021

High Voltage Full Load Amps	12.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	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	19.54 IN
Power Factor	83
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP2134										
CAT.NO.	ECTM3774T									
SPEC.	07N391T511G1									
HP	10									
VOLTS	208-230/460									
AMP	27-24.6/12.3									
RPM	1765									
FRAME	213T	HZ		60		PH		3		
SER.F.	1.15	CODE		H	DES		B	CL	F	
NEMA-NOM-EFF	91.7	PF		83						
RATING	40C AMB-CONT									
CC										
DE	6307	ODE		6206						
ENCL	TEAO	SN								

AC Induction Motor Performance Data

Record # 86595

Preliminary Data Sheet

Winding: 07WGT511-R004			Type: 0748M		Enclosure: TEAO			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		10	Full Load Torque		29.8 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		27-24.6/12.3	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

ABB Motors and Mechanical Inc.

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





