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# Customer information packet

## ECP3772T-4

2HP, 865RPM, 3PH, 60HZ, 213T, 0732M, TEFC, F1, N

Class - CLI GP A,B,C,D

Division - Division II

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## Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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
Constant Torque Speed Range	2
Current @ Voltage	3.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	X
Type	AC
Mech. spec.	07K374
Base	
Status	PRD/A
Elec. spec.	07WGY780
Layout	07LYK374
Eff. date	06-25-2024
CD Diagram	CD0006
Poles	08
Leads	3#14
Proprietary	False
Created date	01-04-2011

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1350 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0732M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	19.50 IN
Power Factor	57
Product Family	Chemical Processing (Not DC)
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	865 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

<b>Thermal Device - Winding</b>	<b>None</b>
<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP3258</b>									
<b>CAT.NO.</b>	ECP3772T-4								
<b>SPEC.</b>	07K374Y780G1								
<b>HP</b>	2 TE								
<b>VOLTS</b>	460								
<b>AMP</b>	3.8								
<b>RPM</b>	865								
<b>FRAME</b>	213T	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.15	<b>CODE</b>	H	<b>DES</b>	B	<b>CL</b>	F		
<b>RATING</b>	40C AMB-CONT								
<b>SN</b>									
<b>DE</b>	6307	<b>ODE</b>	6307						
<b>NEMA-NOM-EFF</b>	85.5	<b>PF</b>	57						
<b>G.MIN.EFF</b>	82.5	<b>CC</b>	010A						
<b>T. CODE</b>	T3C	<b>T=</b>	160						

<b>NP3261</b>			
<b>SPEC.</b>	07K374Y780G1		
<b>D.E. BRG.</b>	35BC03XP30X		
<b>O.D.E. BRG.</b>	35BC03XP30X		
<b>GREASE</b>	POLYREX EM		
<b>RPM MAX</b>	1350	<b>MAX. KVAR</b>	1.67
<b>BLANK</b>			
<b>INV.TYPE</b>	PWM		
<b>T=</b>	160		
<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>CT HZ FROM</b>	2	<b>CT HZ TO</b>	60
<b>VT HZ FROM</b>	-0	<b>VT HZ TO</b>	60
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>	
<b>HTR-WATTS</b>		<b>MAX. SPACE HEATER TEMP.</b>	

**AC Induction Motor Performance Data**

Record # 53272

Typical performance - not guaranteed values

Winding: 07WGY780-R008		Type: 0732M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	2	Full Load Torque	12.1 LB-FT	
Volts	460	Start Configuration	direct on line	
Full Load Amps	3.8	Breakdown Torque	33.1 LB-FT	
R.P.M.	865	Pull-up Torque	19.5 LB-FT	
Hz	60 Phase	Locked-rotor Torque	21 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	18.3 A	
Service Factor (S.F.)	1.15	No-load Current	2.58 A	
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	5.01 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	34°C	
S.F. Amps		Temp. Rise @ S.F. Load	40°C	
		Locked-rotor Power Factor	34.7	
		Rotor inertia	0.796 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 2 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	38	48	56	62	66	60
Efficiency	73.3	82.4	85.4	86.7	84.4	82.8	85.3
Speed	893	885	878	869	859	844	863
Line amperes	2.68	2.96	3.35	3.84	4.47	5.16	4.22

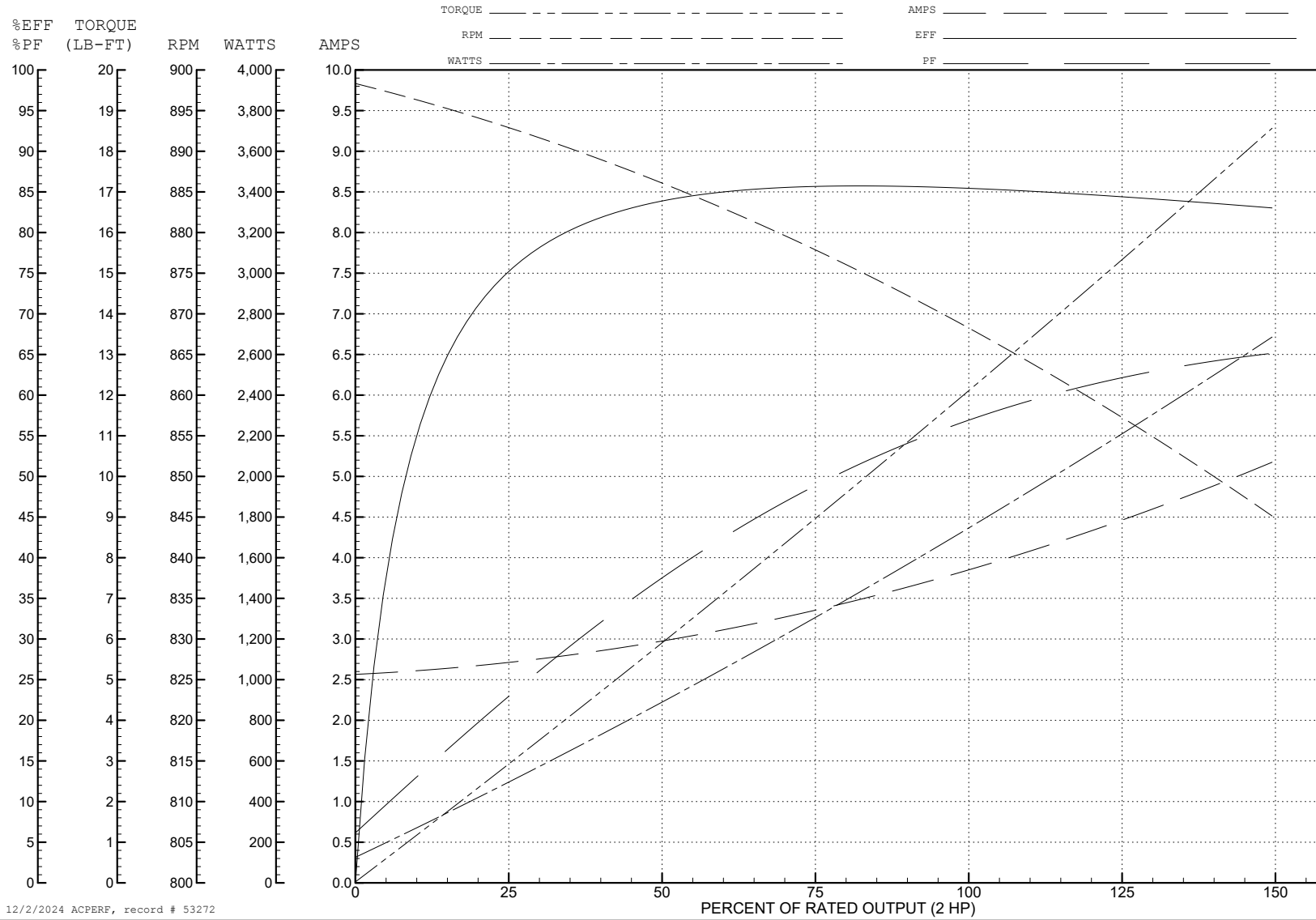
ABB Motors and Mechanical Inc.

WINDING # 07WGY780

Typical performance - not guaranteed values.

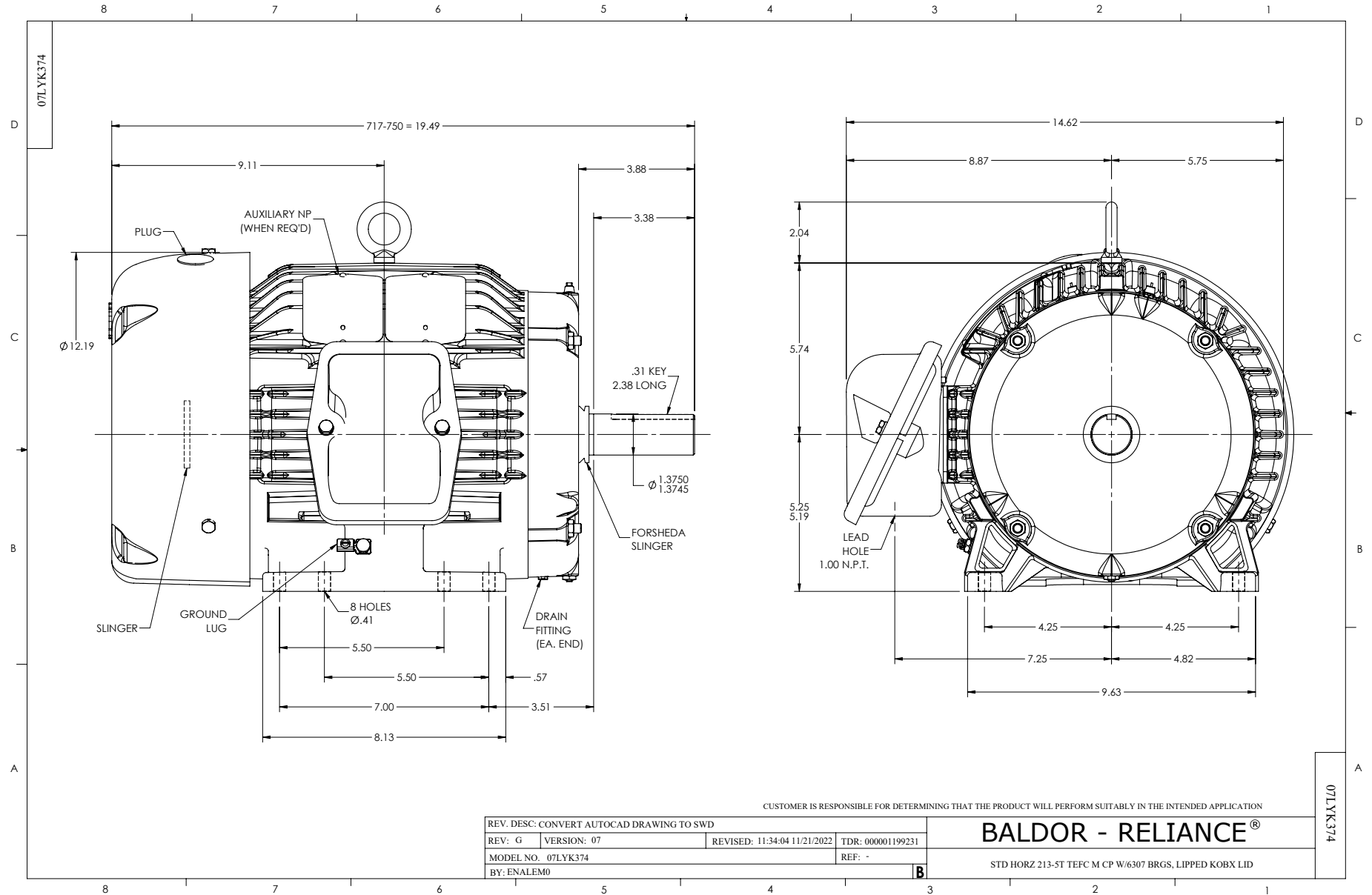
2 HP 3 PH 60 HZ 865 RPM 460 V 0732M

TORQUES (LB-FT): PO=33.1 PU=19.5 LR=21 LRA=18.3



12/2/2024 ACPERF, record # 53272





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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