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# Customer information packet

## ECP83774T-5

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	1.3
Current @ Voltage	9.800 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	AG
Type	AC
Mech. spec.	07K629
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYK629
Eff. date	07-18-2023
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	04-07-2010

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.50 IN
Power Factor	83
Product Family	Chem Process S/P 32-8 IEEE 841
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	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

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

**Nameplate**

**NP4328**

<b>CAT.NO.</b>	ECP83774T-5					
<b>SPEC.</b>	07K629Y729G1					
<b>HP</b>	10 TE	<b>IP</b>	56			
<b>VOLTS</b>	575					
<b>AMPS</b>	9.8					
<b>R.P.M.</b>	1760					
<b>FRAME</b>	215T	<b>HZ</b>	60	<b>PH</b>	3	
<b>SER.F.</b>	1.15	<b>CODE</b>	H	<b>DES.</b>	B	<b>CLASS</b> F
<b>RATING</b>	40C AMB-CONT					
<b>SN</b>						
<b>DE</b>	6307	<b>ODE</b>	6307			
<b>NEMA NOM. EFF.</b>	91.7	<b>P.F.</b>	83			
<b>GUAR. MIN. EFF.</b>	90.2	<b>CC</b>	010A			
<b>T. CODE</b>	T3C	<b>TEMP=</b>	160			

**NP3186**

<b>SPEC.</b>	07K629Y729G1		
<b>ABMA DE BRG</b>	35BC03X30X		
<b>ABMA ODE BRG</b>	35BC03X30X		
<b>GREASE</b>	POLYREX EM		
<b>MOTOR WEIGHT</b>	231	<b>ROTOR BARS</b>	28
		<b>STATOR BARS</b>	36
<b>MAX. R.P.M.</b>	2700	<b>MAX. KVAR</b>	1.53
<b>INV.TYPE</b>	PWM		
<b>T=</b>	160		
<b>CHP</b>	60	<b>TO</b>	90
<b>CT</b>	1.3	<b>TO</b>	60
<b>VT</b>	-0	<b>TO</b>	60
<b>HTR-VOLTS</b>	N/A	<b>HTR-AMPS</b>	N/A
<b>HTR-WATTS</b>		<b>MAX. SPACE HEATER TEMP.</b>	N/A

**AC Induction Motor Performance Data**

Record # 92589

Typical performance - not guaranteed values

<b>Winding: 07WGY729-R027</b>		<b>Type: 0748M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	10	<b>Full Load Torque</b>	29.8 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	9.8	<b>Breakdown Torque</b>	82.6 LB-FT		
<b>R.P.M.</b>	1760	<b>Pull-up Torque</b>	41.2 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	53.9 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	H	<b>Starting Current</b>	64.8 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	3.65 A	
<b>NEMA Nom. Eff.</b>	91.7	<b>Power Factor</b>	83	<b>Line-line Res. @ 25°C</b>	1.68 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	64°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	81°C	
			<b>Locked-rotor Power Factor</b>	35.4	
			<b>Rotor inertia</b>	1.18 lb-ft <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 10 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	49	70	79	83	85	84	84
<b>Efficiency</b>	90.1	92.1	92.7	91.7	90.9	89.1	91.5
<b>Speed</b>	1791	1782	1774	1764	1752	1738	1757
<b>Line amperes</b>	4.28	5.74	7.6	9.79	12.2	15	11.2

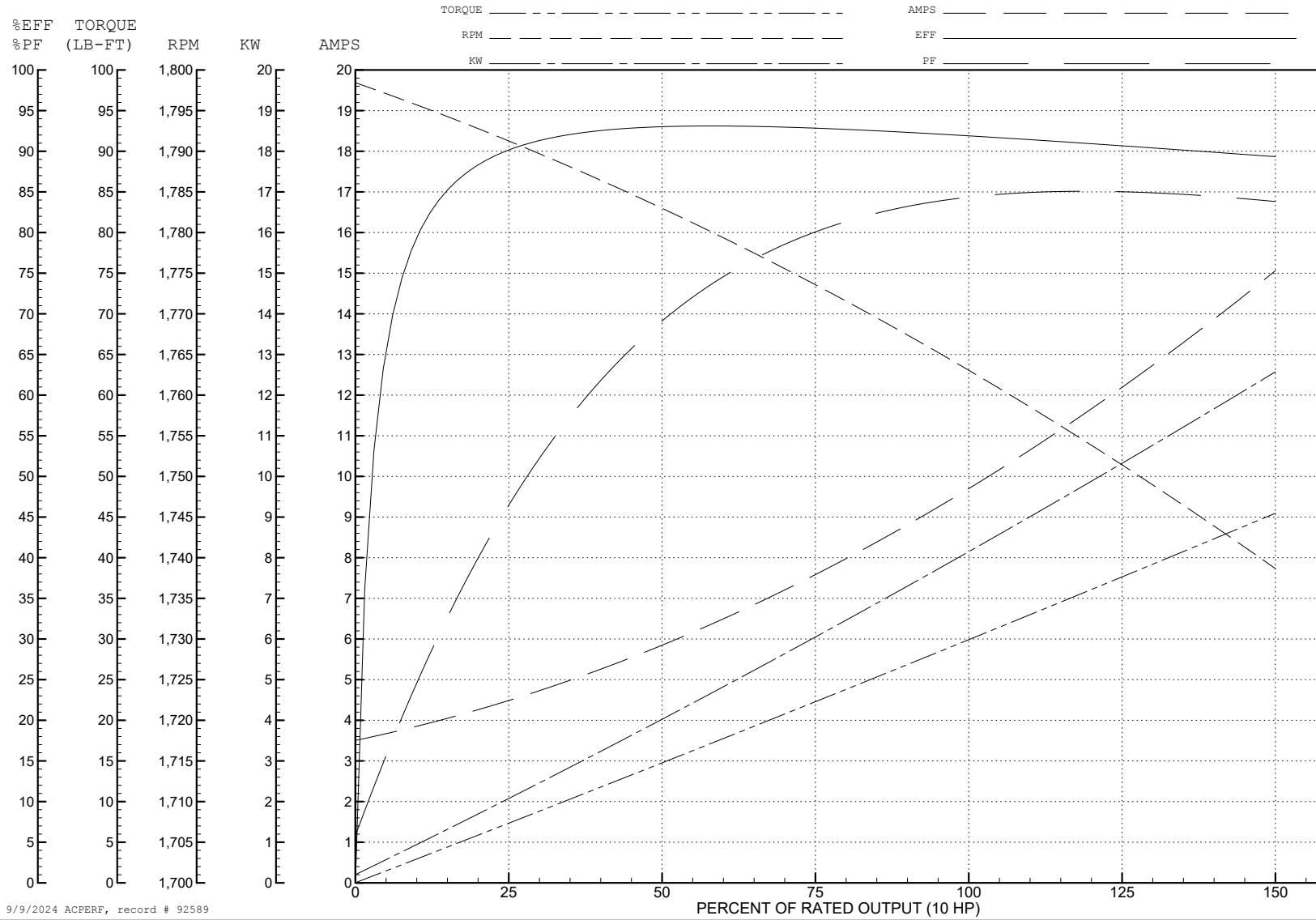
ABB Motors and Mechanical Inc.

WINDING # 07WGY729

Typical performance - not guaranteed values.

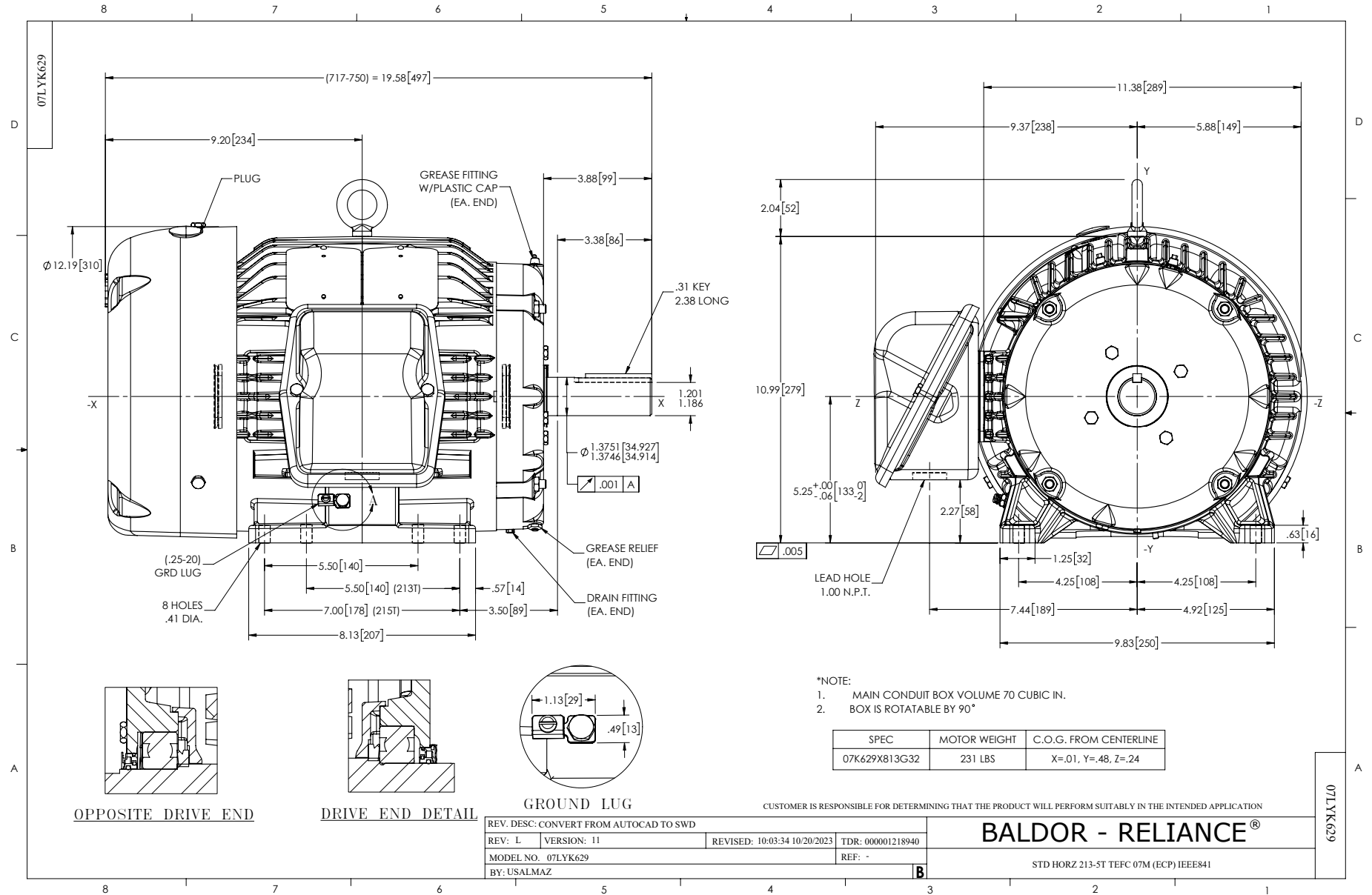
10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

TORQUES (LB-FT): PO=82.6 PU=41.2 LR=53.9 LRA=64.8

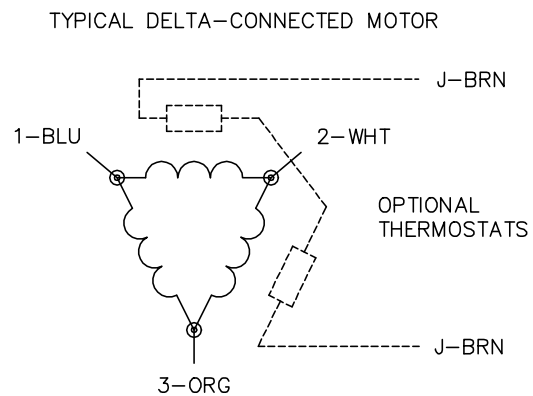


9/9/2024 ACPERF, record # 92589





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.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

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

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