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# Customer information packet

## CEM3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	215TC
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	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	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
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	S
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYH058
Eff. date	04-29-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	05-07-2010

High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	19.20 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	No Slinger
Speed	1760 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**

<b>NP3441L</b>									
<b>CAT.NO.</b>	CEM3774T-5								
<b>SPEC.</b>	07H058Y729G1								
<b>HP</b>	10								
<b>VOLTS</b>	575								
<b>AMP</b>	9.8								
<b>RPM</b>	1760								
<b>FRAME</b>	215TC		<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>NEMA-NOM-EFF</b>	91.7	<b>PF</b>	83						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6307		<b>ODE</b>	6206					
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>VPWM INVERTER READY</b>									
<b>CT6-60H(10:1)VT3-60H(20:1</b>									
	SFA 11.2								

**AC Induction Motor Performance Data**

Record # 89235

Typical performance - not guaranteed values

Winding: 07WGY729-R002		Type: 0748M		Enclosure: TEFC			
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>				
Rated Output (HP)	10	Full Load Torque	29.77 LB-FT				
Volts	575	Start Configuration	direct on line				
Full Load Amps	9.8	Breakdown Torque	82.63 LB-FT				
R.P.M.	1760	Pull-up Torque	41.23 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	53.91 LB-FT			
NEMA Design Code	B	KVA Code	H	Starting Current	66.29 A		
Service Factor (S.F.)	1.15		No-load Current	3.65 A			
NEMA Nom. Eff.	91.7	Power Factor	83	Line-line Res. @ 25°C	1.68 Ω		
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	64°C			
S.F. Amps			Temp. Rise @ S.F. Load	81°C			
			Locked-rotor Power Factor	35.3847			
			Rotor inertia	1.18 lb-ft <sup>2</sup>			

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

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	70	79	83	85	84	84
Efficiency	90.1	91.9	92.6	92.1	90.9	89.1	91.4
Speed	1791	1782	1774	1764	1752	1738	1757
Line amperes	4.28	5.74	7.6	9.79	12.21	15.01	11.2

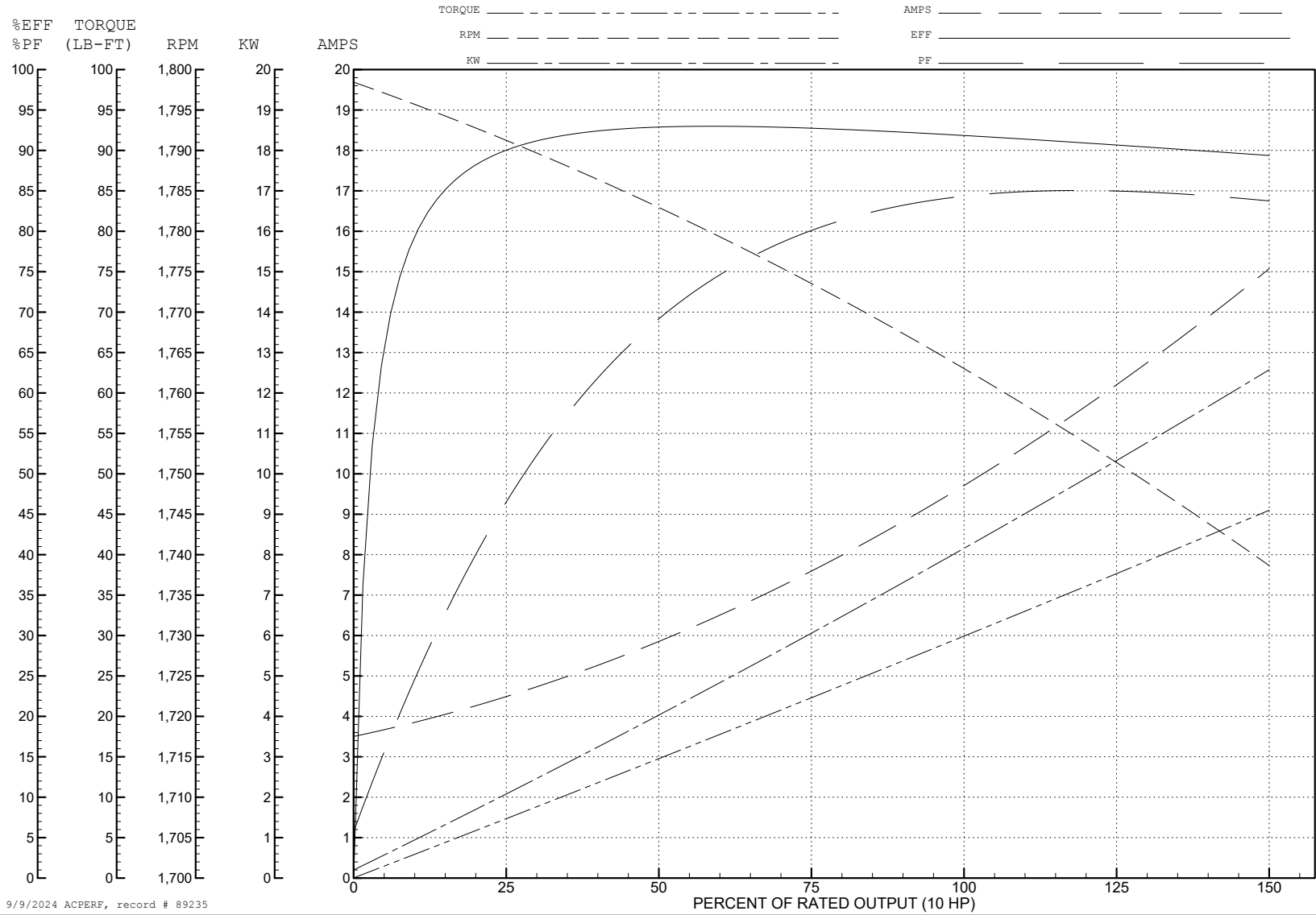
ABB Motors and Mechanical Inc.

WINDING # 07WGY729

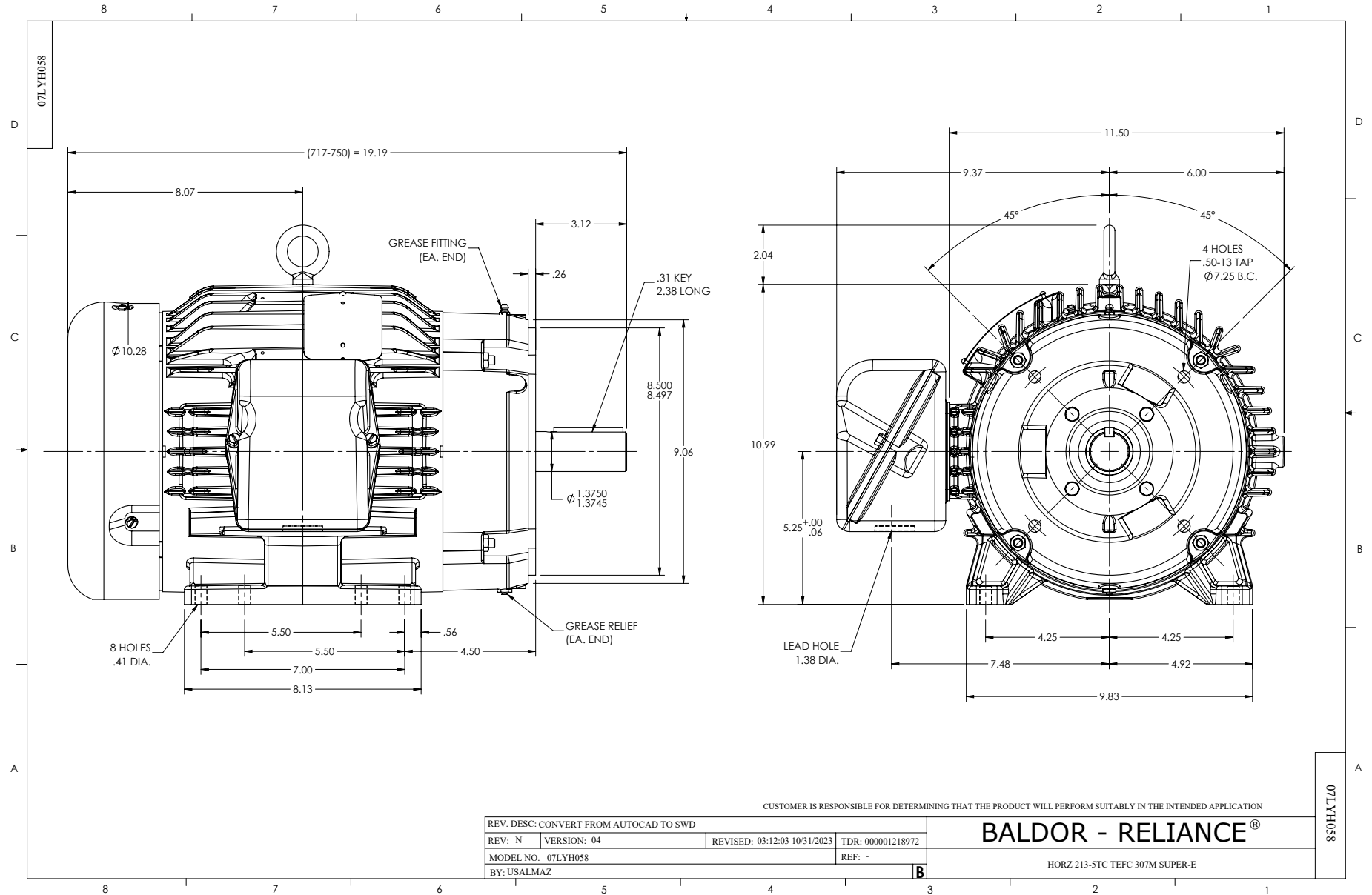
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=82.63 PU=41.23 LR=53.91 LRA=66.29



9/9/2024 ACPERF, record # 89235



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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