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# Customer information packet

## CEM3771T

10HP, 3485RPM, 3PH, 60HZ, 215TC, 0730M, 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	3600 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	25.200 A @ 208.0 V 23.400 A @ 230.0 V 11.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

## Part detail

Revision	C
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGT516
Layout	07LYH058
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-05-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	11.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard 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	0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.20 IN
Power Factor	88
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3485 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**

<b>CAT.NO.</b>	CEM3771T						
<b>SPEC</b>	07H058T516G1						
<b>HP</b>	10						
<b>VOLTS</b>	230/460						
<b>AMPS</b>	23.4/11.7						
<b>RPM</b>	3485						
<b>FRAME</b>	215TC	<b>HZ</b>	60	<b>PH</b>	3		
<b>SF</b>	1.15	<b>CODE</b>	G	<b>DES</b>	B	<b>CLASS</b>	F
<b>NEMA NOM. EFF</b>	90.2	<b>PF</b>	88				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A						
<b>ENCL</b>	TEFC	<b>SER</b>					
<b>DE</b>	6307	<b>ODE</b>	6206				
<b>VPWM INVERTER READY</b>							
<b>CT6-60H(10:1)VT3-60H(20:1</b>	50HZ 10HP 190/380V 30/15.0 A						SF1.0

**AC Induction Motor Performance Data**

Record # 86063

Typical performance - not guaranteed values

Winding: 07WGT516-R001		Type: 0730M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	10	Full Load Torque	15.1 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	23.4/11.7	Breakdown Torque	44.8 LB-FT	
R.P.M.	3485	Pull-up Torque	16.4 LB-FT	
Hz	60 Phase	Locked-rotor Torque	23.5 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	75.4 A	
Service Factor (S.F.)	1.15	No-load Current	3.77 A	
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	1.13 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	68°C	
S.F. Amps	27/13.5	Temp. Rise @ S.F. Load	91°C	
		Locked-rotor Power Factor	39.1	
		Rotor inertia	0.273 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 10 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	85	88	89	89	89
Efficiency	87.7	91.1	91.1	90.2	88.5	86.6	89.3
Speed	3573	3547	3518	3486	3451	3410	3466
Line amperes	4.65	6.59	9.02	11.7	14.8	18.1	13.5

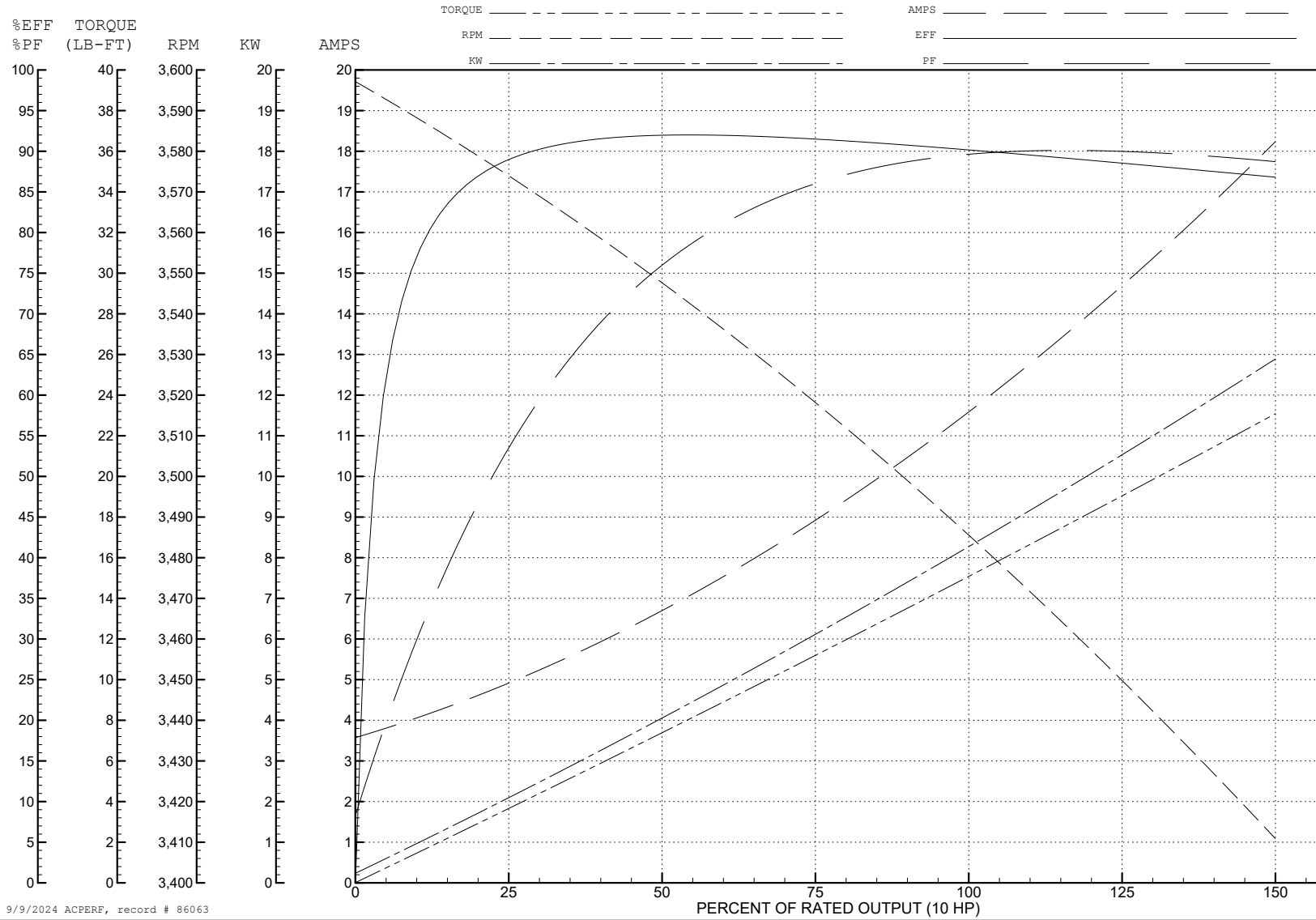
ABB Motors and Mechanical Inc.

WINDING # 07WGT516

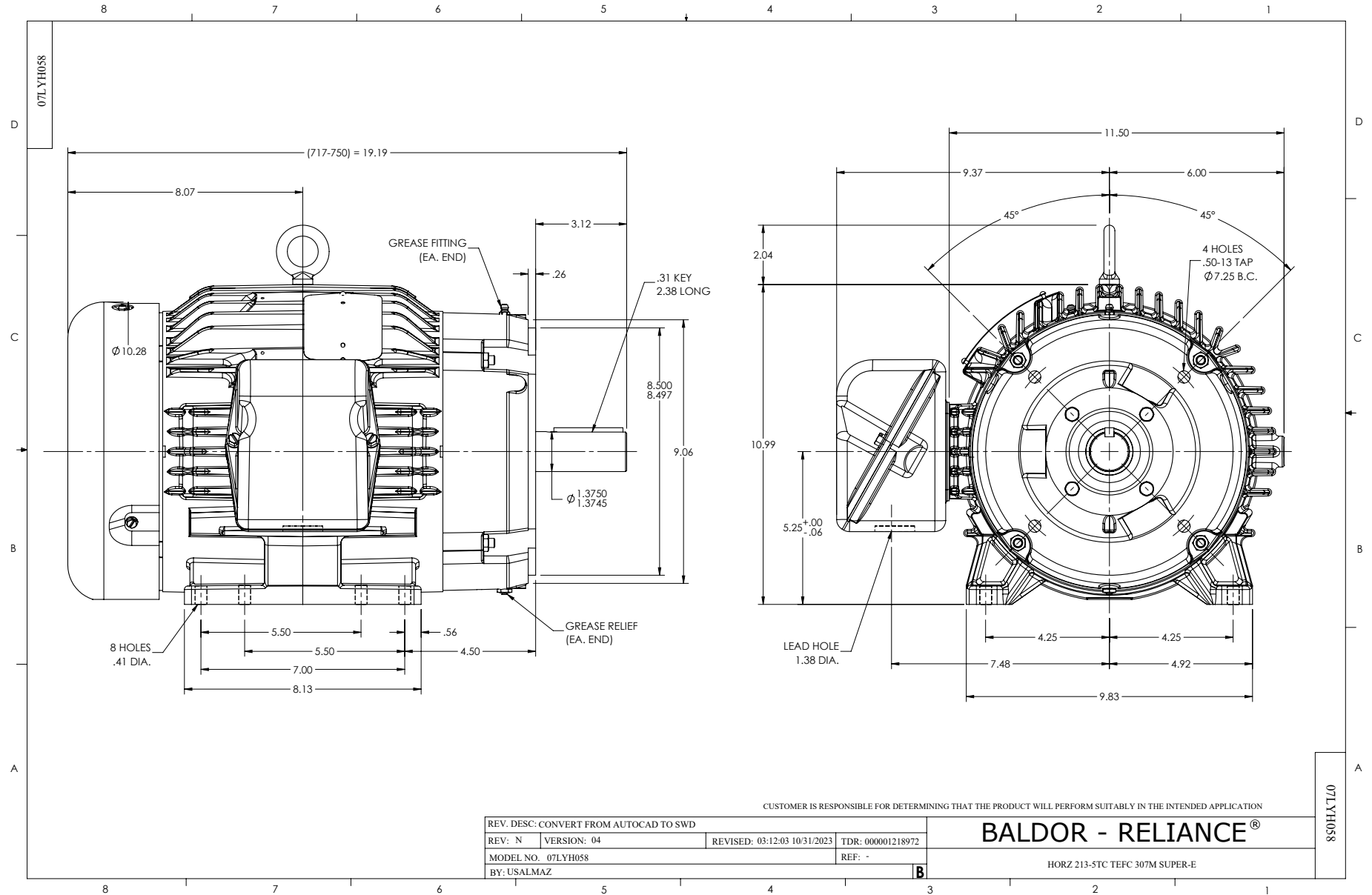
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3485 RPM 460 V 0730M

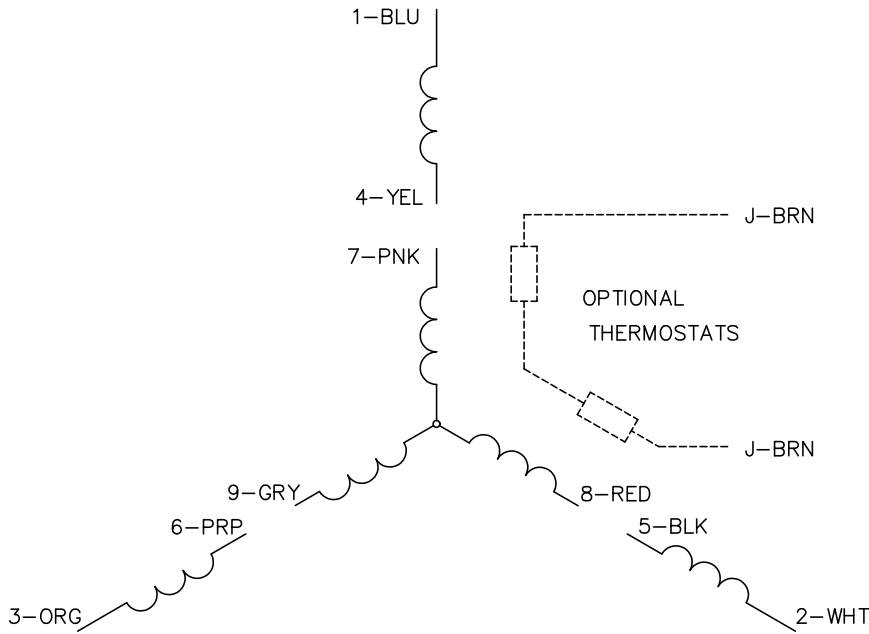
TORQUES (LB-FT): PO=44.8 PU=16.4 LR=23.5 LRA=75.4



9/9/2024 ACPERF, record # 86063



CD0005

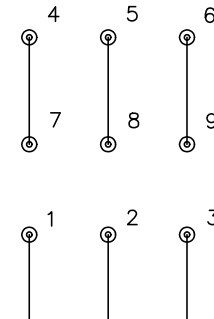


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS