



Customer information packet

CEM3768T

5HP, 1160RPM, 3PH, 60HZ, 215TC, 0746M, TEFC, F1

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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV 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	15.300 A @ 208.0 V 7.400 A @ 460.0 V 14.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	R
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGY763
Layout	07LYH058
Eff. date	10-17-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-16-2010

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0746M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.20 IN
Power Factor	71
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	1160 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

CAT.NO.	CEM3768T						
SPEC	07H058Y763G1						
HP	5						
VOLTS	230/460						
AMPS	14.8/7.4						
RPM	1160						
FRAME	215TC	HZ	60	PH	3		
SF	1.15	CODE	K	DES	A	CLASS	F
NEMA NOM. EFF	89.5	PF	71				
RATING	40C AMB-CONT						
CC	010A						
ENCL	TEFC	SER					
DE	6307	ODE	6206				
VPWM INVERTER READY	SFA 16.6/8.3						
CT6-60H(10:1)VT3-60H(20:1)	50Hz 5HP 190/380V 17.2/8.6A						SF1.0

AC Induction Motor Performance Data

Record # 50558

Typical performance - not guaranteed values

Winding: 07WGY763-R005		Type: 0746M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	22.8 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	14.8/7.4	Breakdown Torque	81.3 LB-FT	
R.P.M.	1160	Pull-up Torque	49.9 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	59.9 LB-FT
NEMA Design Code	A KVA Code	K	Starting Current	54.8 A
Service Factor (S.F.)	1.15	No-load Current	4.03 A	
NEMA Nom. Eff.	89.5 Power Factor	71	Line-line Res. @ 25°C	1.64 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	50°C	
S.F. Amps		Temp. Rise @ S.F. Load	61°C	
		Locked-rotor Power Factor	22.2	
		Rotor inertia	1.14 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	63	70	74	76	72
Efficiency	84.9	89.7	90.6	90.4	89.2	87.7	89.7
Speed	1190	1181	1174	1164	1153	1141	1157
Line amperes	4.32	5.06	6.12	7.48	8.92	10.5	8.34

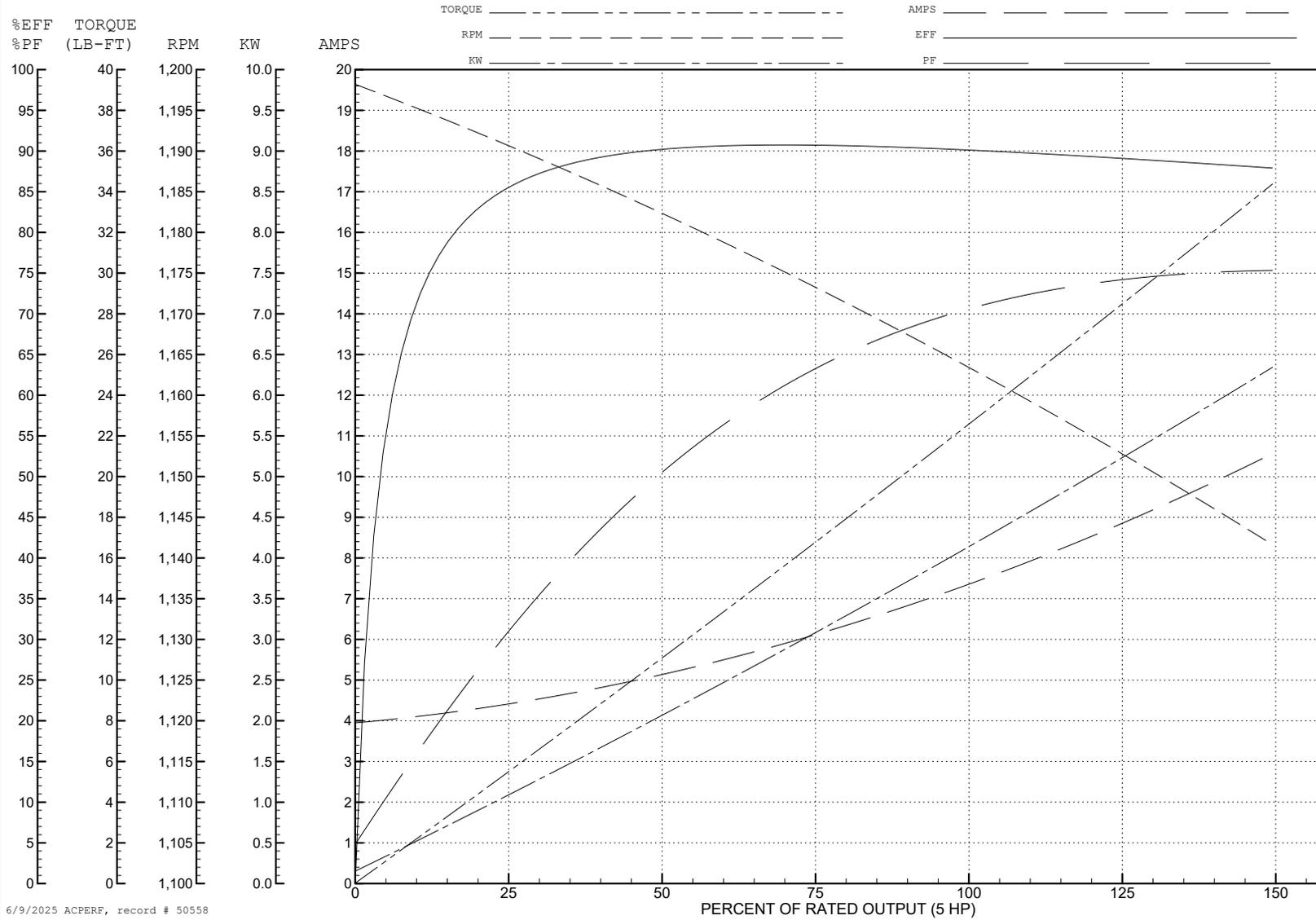
ABB Motors and Mechanical Inc.

WINDING # 07WGY763

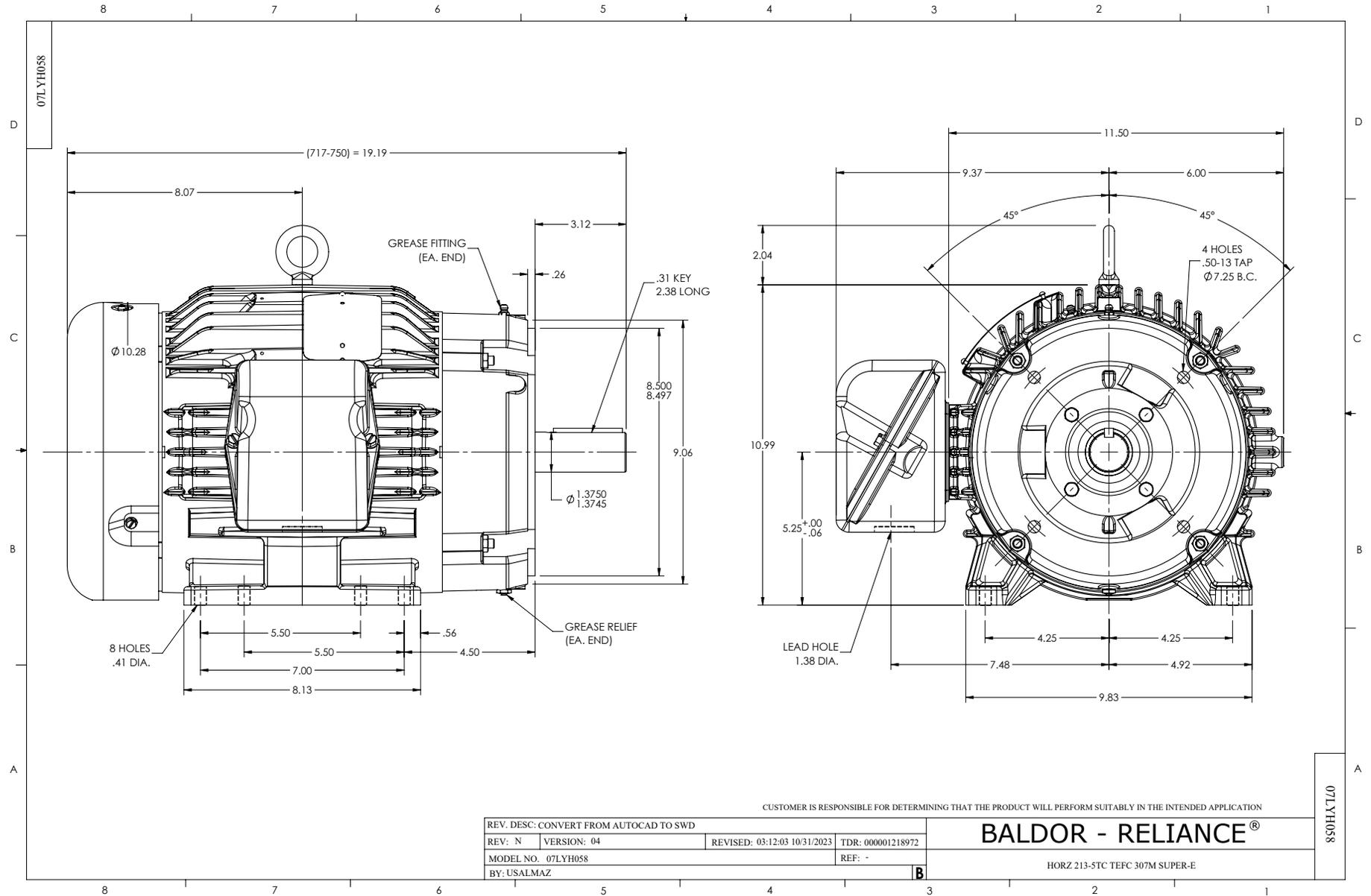
5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

Typical performance - not guaranteed values.

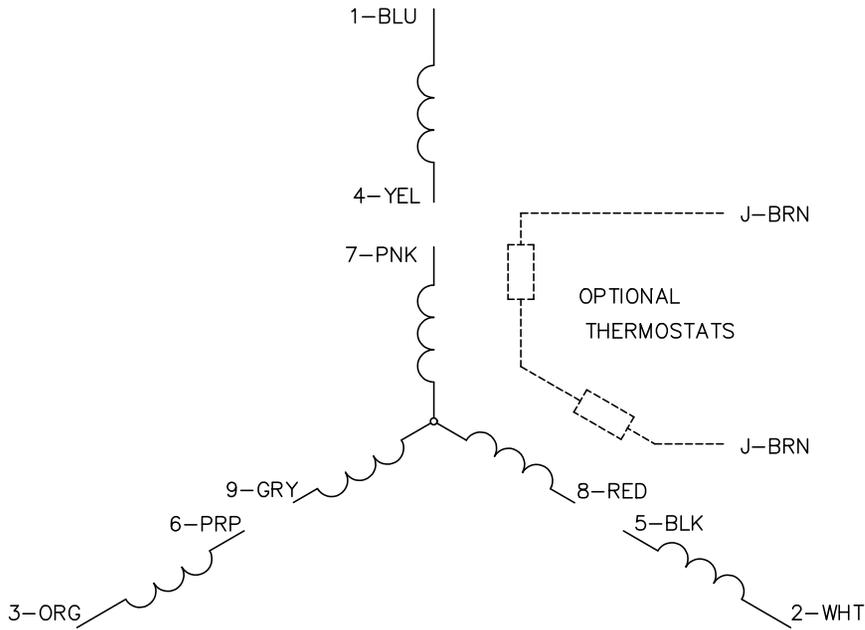
TORQUES (LB-FT): PO=81.3 PU=49.9 LR=59.9 LRA=54.8



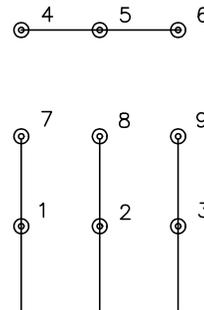
6/9/2025 ACPERF, record # 50558



CD0005

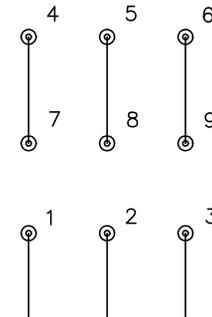


LOW VOLTAGE
(2Y)



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

500000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS