



Customer information packet

CEM3764T

3HP, 1165RPM, 3PH, 60HZ, 213TC, 0736M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
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	9.000 A @ 208.0 V 9.000 A @ 230.0 V 4.500 A @ 460.0 V
Design Code	B
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	Q
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGX970
Layout	07LYH058
Eff. date	02-21-2022
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-14-2010

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 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	0736M
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
RoHS Status	ROHS COMPLIANT
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	1165 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.	CEM3764T						
SPEC	07H058X970G1						
HP	3						
VOLTS	230/460						
AMPS	9/4.5						
RPM	1165						
FRAME	213TC	HZ	60	PH	3		
SF	1.15	CODE	K	DES	B	CLASS	F
NEMA NOM. EFF	89.5	PF	71				
RATING	40C AMB-CONT						
CC	010A	USABLE AT 208V				N/A	
ENCL	TEFC	SER					
DE	6307	ODE	6206				
VPWM INVERTER READY	SFA 9.8/4.9						
CT6-60H(10:1)VT3-60H(20:1)	50Hz 3HP 190/380V 10.4/5.2A						SF1.0

AC Induction Motor Performance Data

Record # 53091

Typical performance - not guaranteed values

Winding: 07WGX970-R023		Type: 0736M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)	3		Full Load Torque	13.61 LB-FT		
Volts	230/460		Start Configuration	direct on line		
Full Load Amps	9/4.5		Breakdown Torque	51.71 LB-FT		
R.P.M.	1165		Pull-up Torque	25.77 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque	31.08 LB-FT	
NEMA Design Code	B		KVA Code	K	Starting Current	32.19 A
Service Factor (S.F.)	1.15		No-load Current	2.26 A		
NEMA Nom. Eff.	89.5	Power Factor	71	Line-line Res. @ 25°C	3 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	34°C		
S.F. Amps			Temp. Rise @ S.F. Load	41°C		
			Locked-rotor Power Factor	23.3		
			Rotor inertia	0.895 LB-FT ²		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	54	65	72	75	76	73
Efficiency	82.8	88.3	89.7	89.6	89	87.3	89.4
Speed	1192	1184	1176	1166	1156	1143	1161
Line amperes	2.48	2.96	3.62	4.41	5.29	6.33	4.99

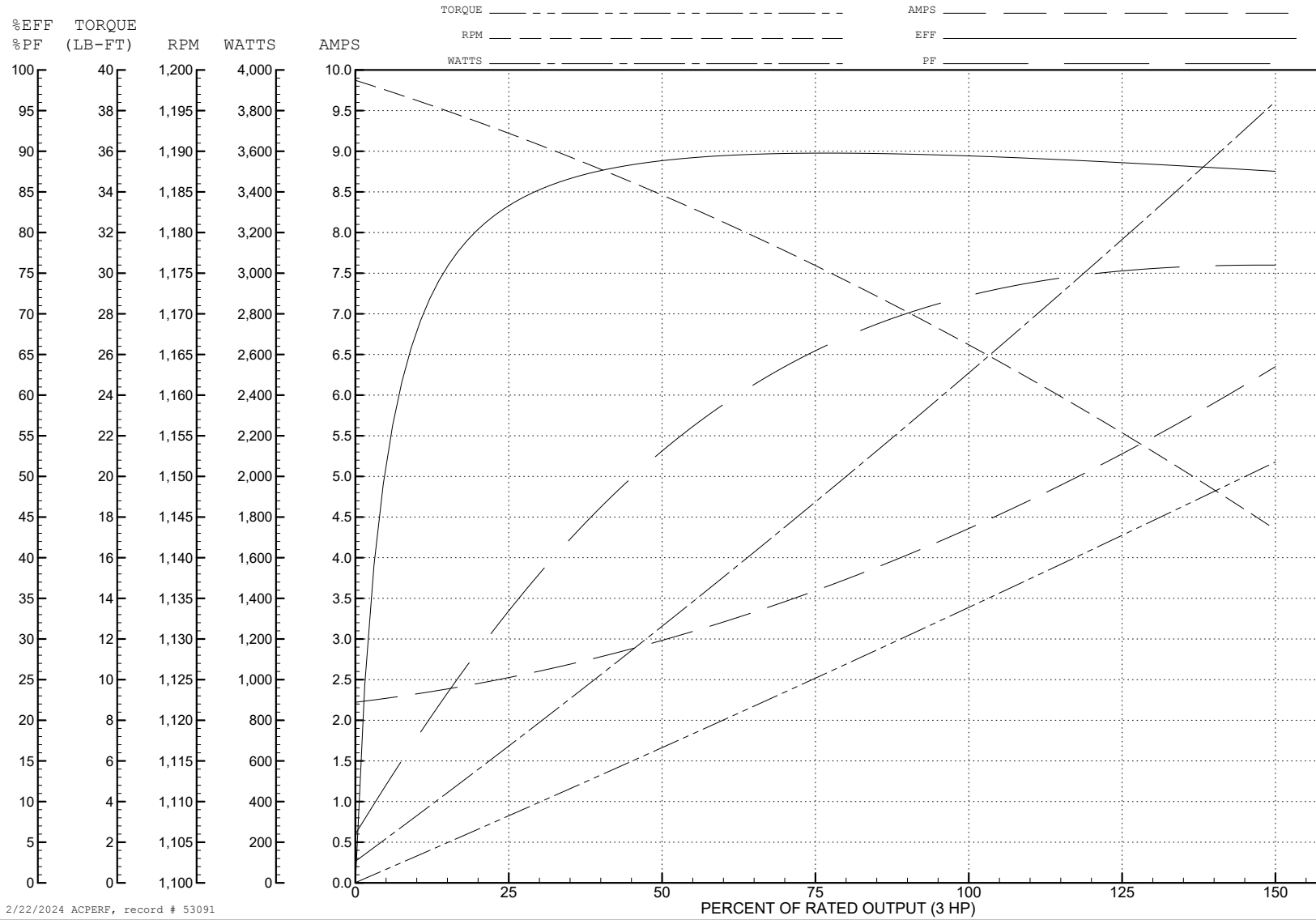
ABB Motors and Mechanical Inc.

WINDING # 07WGX970

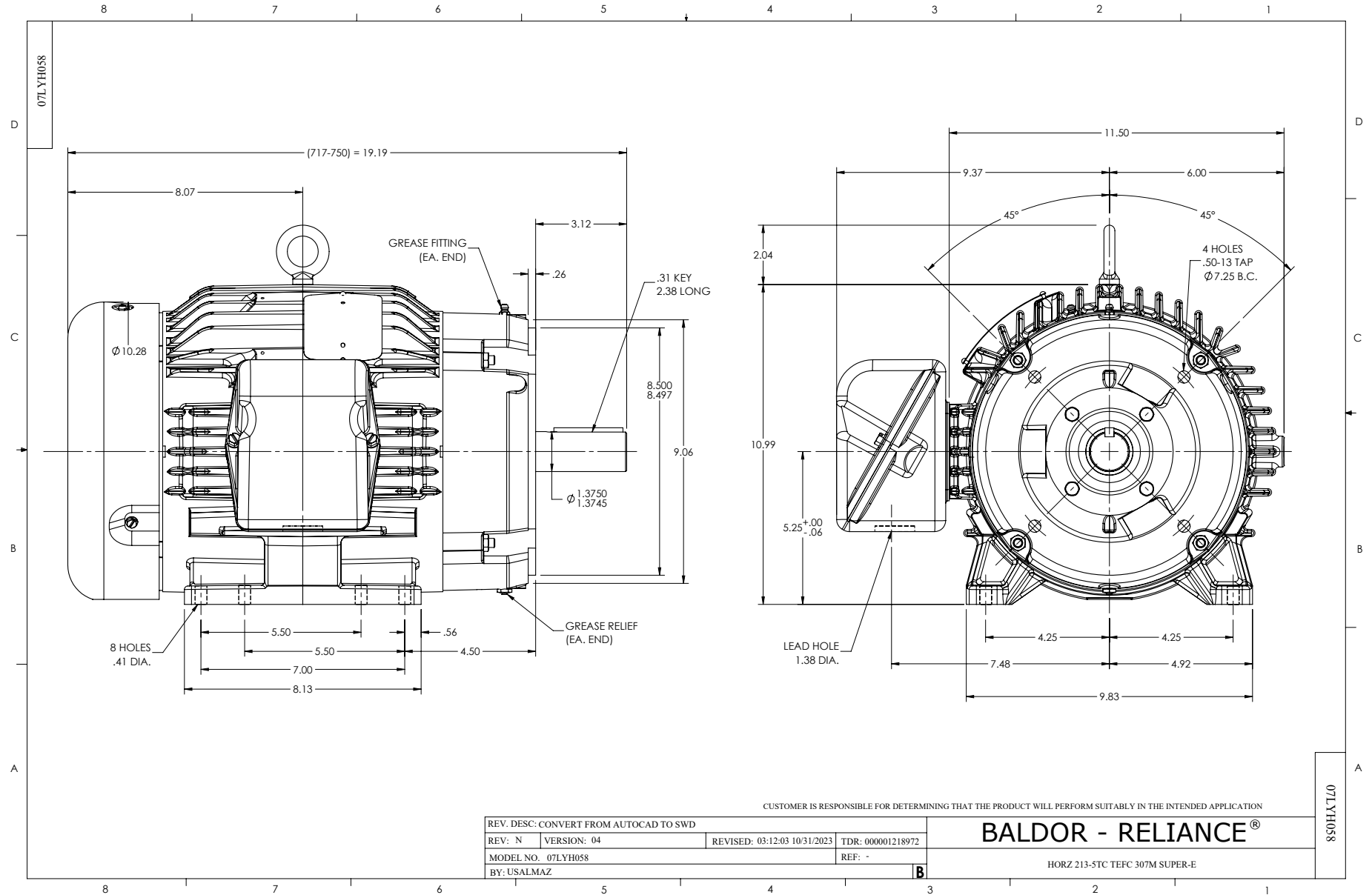
3 HP 3 PH 60 HZ 1165 RPM 460 V 0736M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19



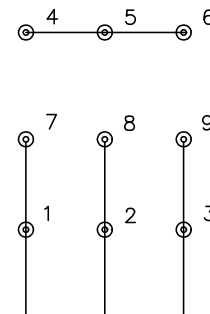
2/22/2024 ACPERF, record # 53091



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