



Customer information packet

ECP83769T-5

7.5HP, 3510RPM, 3PH, 60HZ, 213T, 0730M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	7.150 A @ 575.0 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
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part detail

Revision	D
Type	AC
Mech. spec.	07J415
Base	
Status	PRD/A
Elec. spec.	07WGT560
Layout	07LYJ415
Eff. date	03-07-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	06-27-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	7.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5260 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.50 IN
Power Factor	88
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3510 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
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Nameplate

NP4328									
CAT.NO.	ECP83769T-5								
SPEC.	07J415T560G1								
HP	7.5 TE				IP	56			
VOLTS	575								
AMPS	7.15								
R.P.M.	3510								
FRAME	213T		HZ		60		PH	3	
SER.F.	1.15	CODE	H	DES.	B	CLASS F			
RATING	40C AMB-CONT								
SN									
DE	6307		ODE		6206				
NEMA NOM. EFF.	89.5		P.F.		88				
GUAR. MIN. EFF.	87.5		CC	010A					
T. CODE	T3C		TEMP=		160				

NP3186

SPEC.	07J415T560G1				
ABMA DE BRG	35BC03XP30X				
ABMA ODE BRG	30BC02XP30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	164	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	5400	MAX. KVAR	0.35		
INV.TYPE	PWM				
T=	180				
CHP	60	TO	90		
CT	6	TO	60		
VT	3	TO	60		
HTR-VOLTS	N/A	HTR-AMPS	N/A		
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.			N/A

AC Induction Motor Performance Data

Record # 95110

Typical performance - not guaranteed values

Winding: 07WGT560-R001				Type: 0730M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5		Full Load Torque		11.24 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		6.9		Breakdown Torque		43.1 LB-FT	
R.P.M.		3510		Pull-up Torque		11.4 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		H	
Service Factor (S.F.)		1.15		No-load Current		49 A	
NEMA Nom. Eff.		91.7		Power Factor		88	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	84	88	89	90	89
Efficiency	85	89.7	90.4	89.8	88.6	87	89.1
Speed	3578	3558	3535	3511	3485	3455	3495
Line amperes	3.04	4.15	5.55	7.15	8.87	10.79	8.18

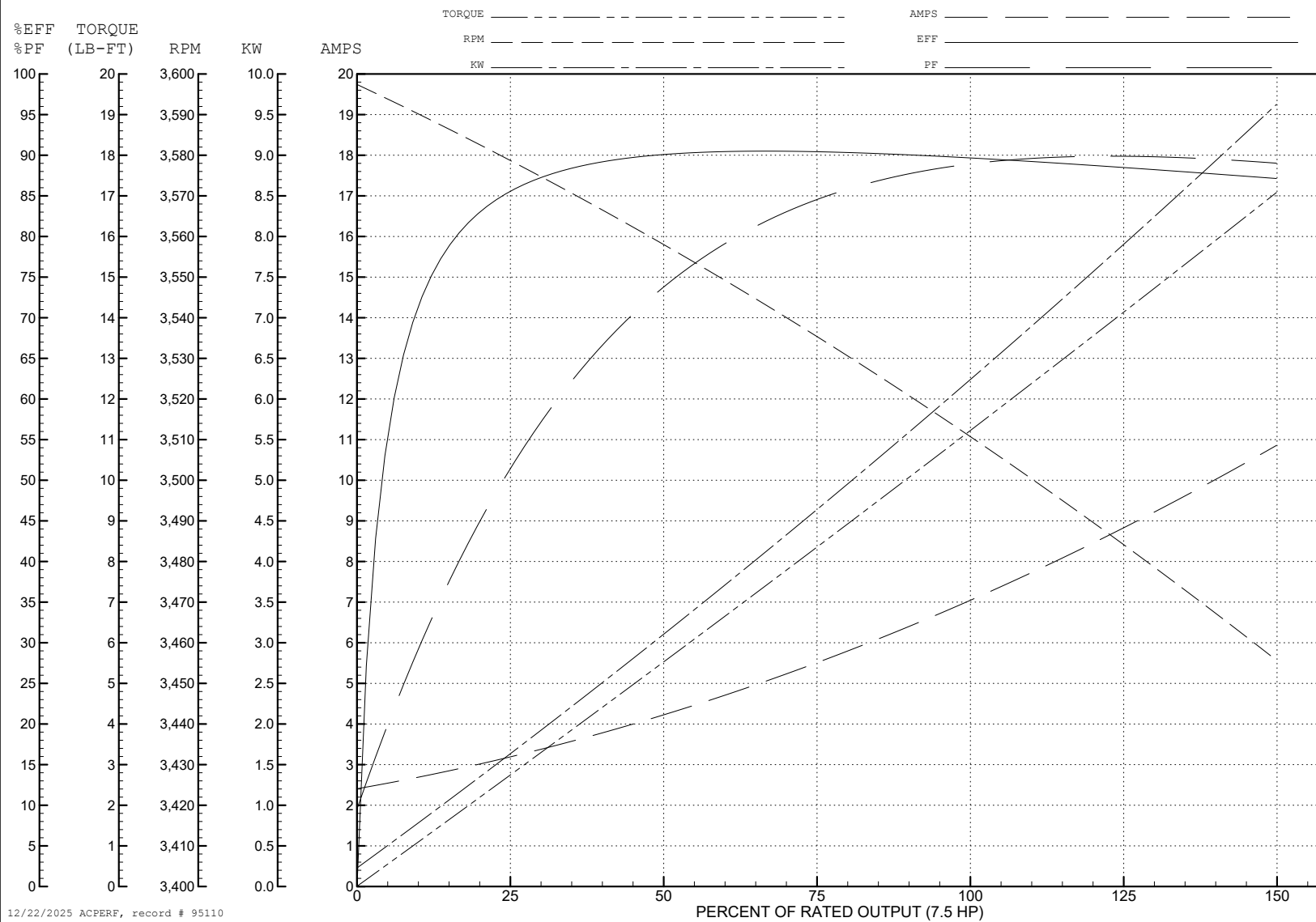
ABB Motors and Mechanical Inc.

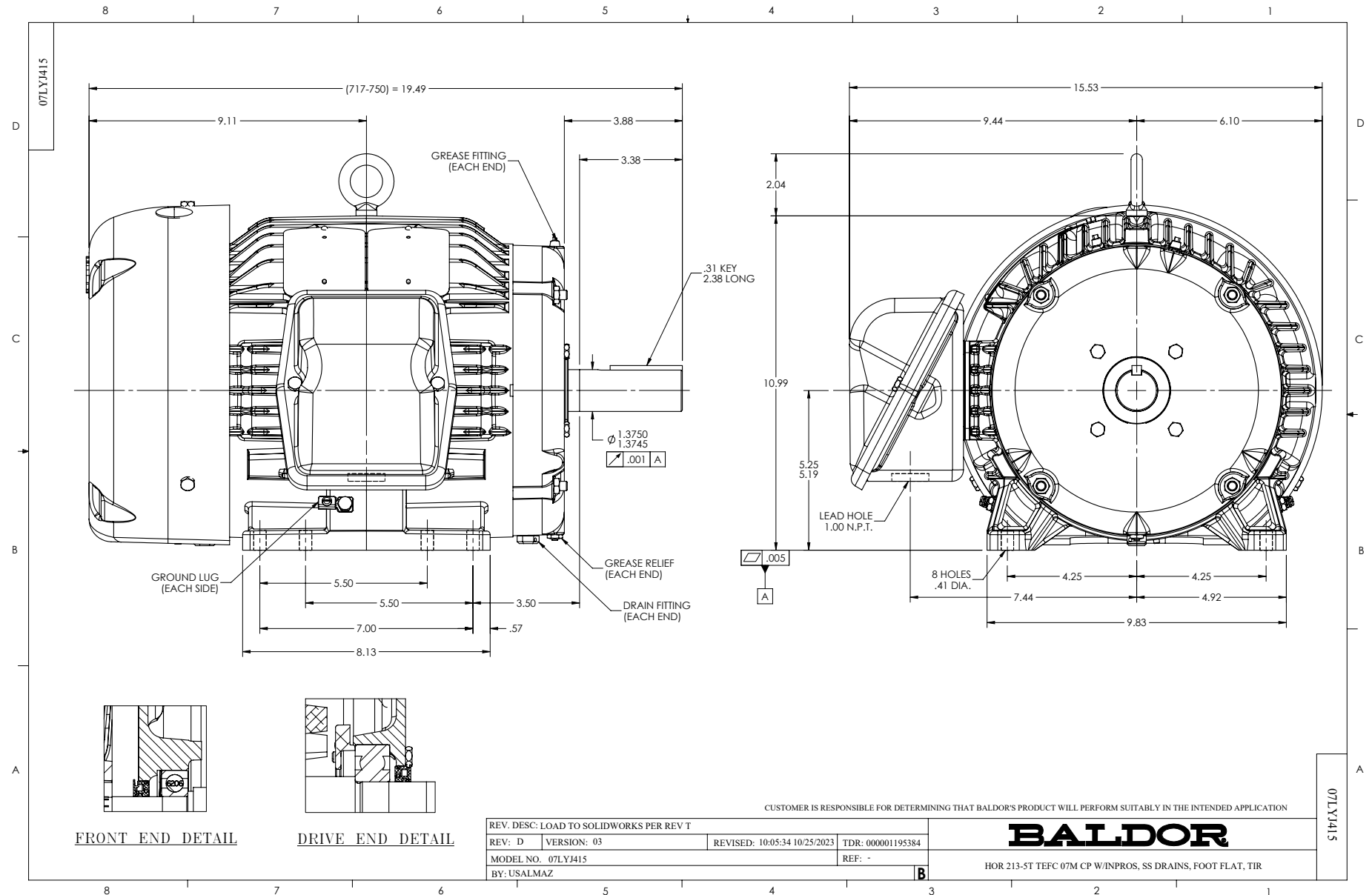
WINDING # 07WGT560

Typical performance - not guaranteed values.

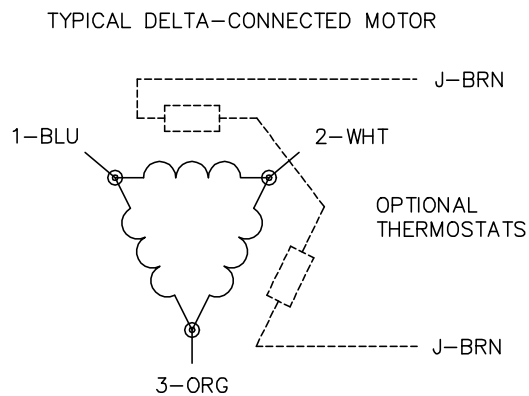
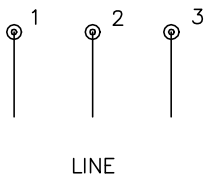
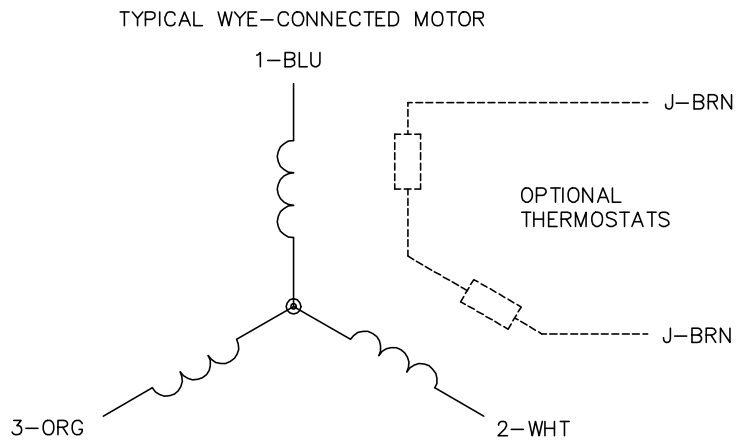
7.5 HP 3 PH 60 HZ 3510 RPM 575 V 0730M

TORQUES (LB-FT): PO=43.1 PU=11.4 LR=16 LRA=49





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

SH 1 of 1