

ABB BALDOR RELIANCE III

Customer information packet

ECP83768T-5

5HP, 1160RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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	2.0
Current @ Voltage	5.700 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AA
Type	AC
Mech. spec.	07J415
Base	
Status	PRD/A
Elec. spec.	07WGY727
Layout	07LYJ415
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	06
Leads	3#14
Proprietary	False
Created date	03-26-2010

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.7 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
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	6
Overall Length	19.50 IN
Power Factor	73
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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

NP4328									
CAT.NO.	ECP83768T-5								
SPEC.	07J415Y727G1								
HP	5 TE				IP	56			
VOLTS	575								
AMPS	5.7								
R.P.M.	1160								
FRAME	215T		HZ		60		PH	3	
SER.F.	1.15	CODE	J	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6307		ODE		6206				
NEMA NOM. EFF.	89.5		P.F.		73				
GUAR. MIN. EFF.	87.5		CC	010A					
T. CODE	T3C		TEMP=		160				

NP3186						
SPEC.	07J415Y727G1					
ABMA DE BRG	35BC03XP30X					
ABMA ODE BRG	30BC02XP30X					
GREASE	POLYREX EM					
MOTOR WEIGHT	226	ROTOR BARS	27	STATOR BARS	36	
MAX. R.P.M.	1800	MAX. KVAR	1.9			
INV.TYPE	PWM					
T=	160					
CHP	60	TO	90			
CT	2.0	TO	60			
VT	0-	TO	60			
HTR-VOLTS	N/A	HTR-AMPS	N/A			
HTR-WATTS		MAX. SPACE HEATER TEMP.				N/A

AC Induction Motor Performance Data

Record # 92587

Typical performance - not guaranteed values

Winding: 07WGY727-R006			Type: 0748M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		5	Full Load Torque		22.4 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		5.7	Breakdown Torque		63.2 LB-FT	
R.P.M.		1160	Pull-up Torque		43.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	55.3 LB-FT	
NEMA Design Code	B	KVA Code	J	Starting Current	36.8 A	
Service Factor (S.F.)		1.15	No-load Current		2.74 A	
NEMA Nom. Eff.	89.5	Power Factor	73	Line-line Res. @ 25°C	2.74 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		50°C	
S.F. Amps			Temp. Rise @ S.F. Load		63°C	
			Locked-rotor Power Factor		21.4	
			Rotor inertia		1.19 lb-ft²	

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	67	73	76	77	75
Efficiency	84.7	89.9	90.5	89.5	88.3	86.1	88.8
Speed	1192	1182	1172	1161	1147	1132	1153
Line amperes	2.98	3.69	4.63	5.68	6.97	8.49	6.45

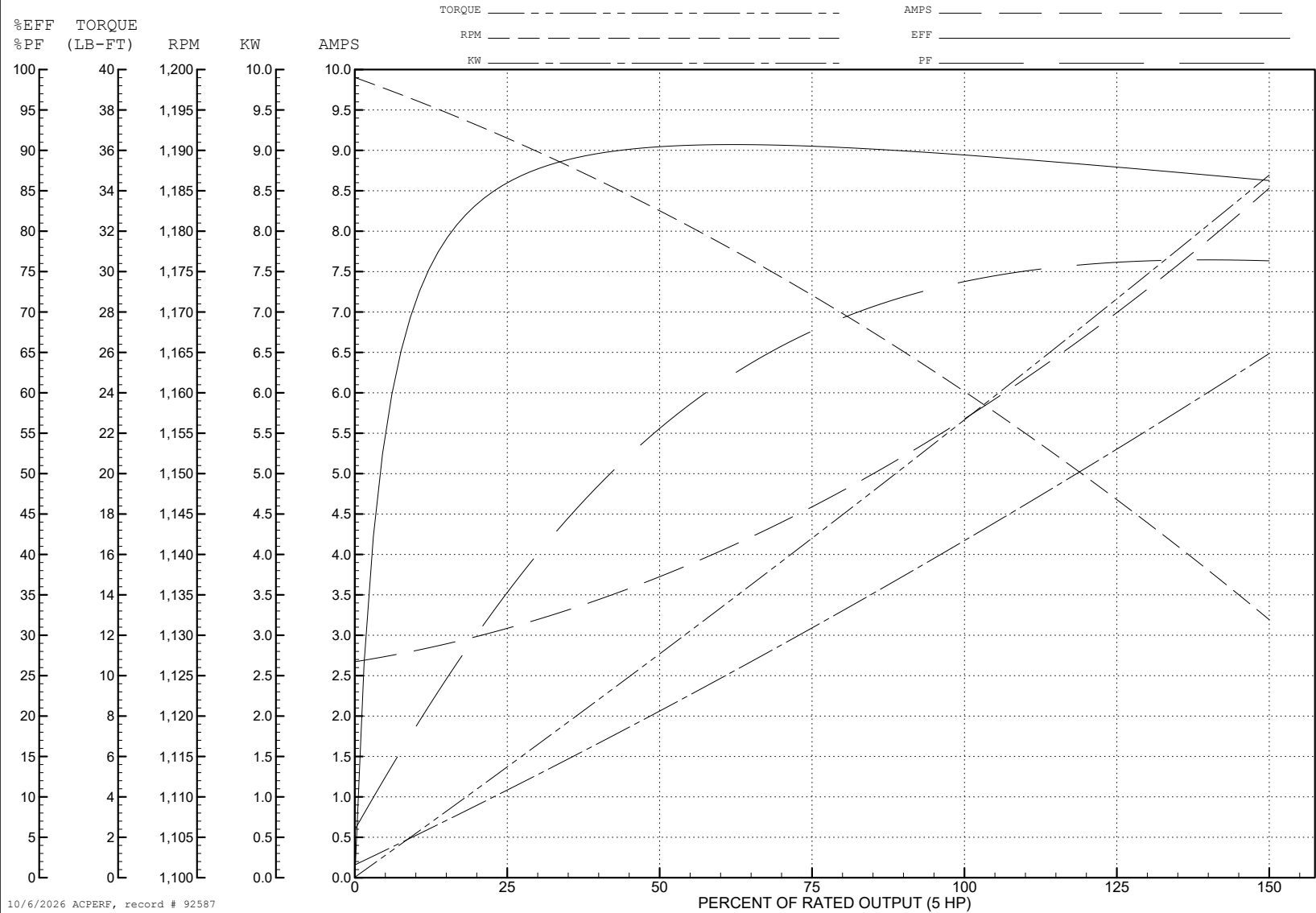
ABB Motors and Mechanical Inc.

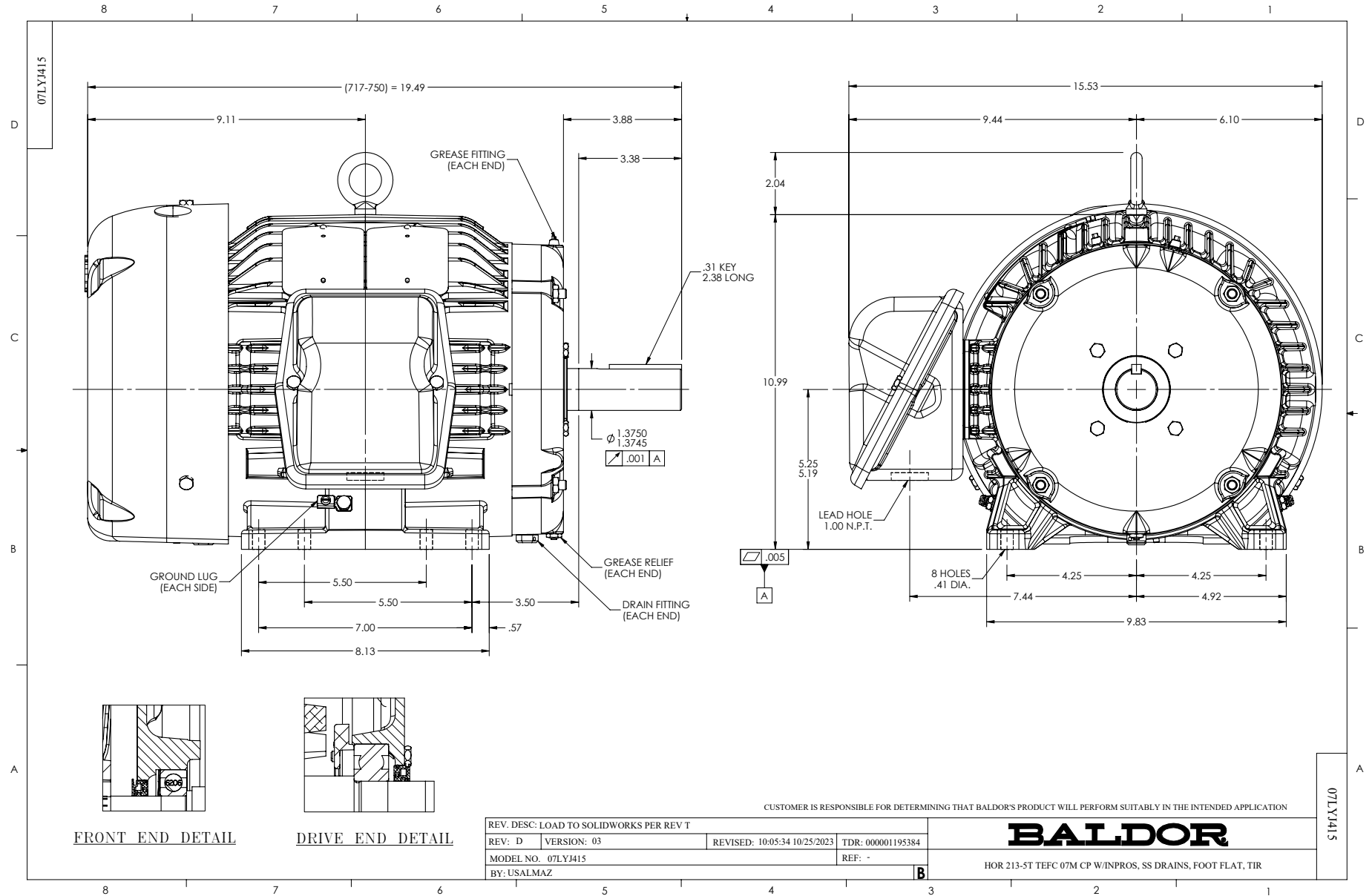
WINDING # 07WGY727

Typical performance - not guaranteed values.

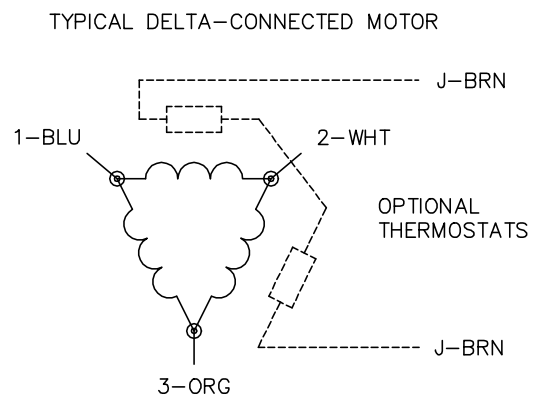
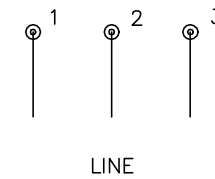
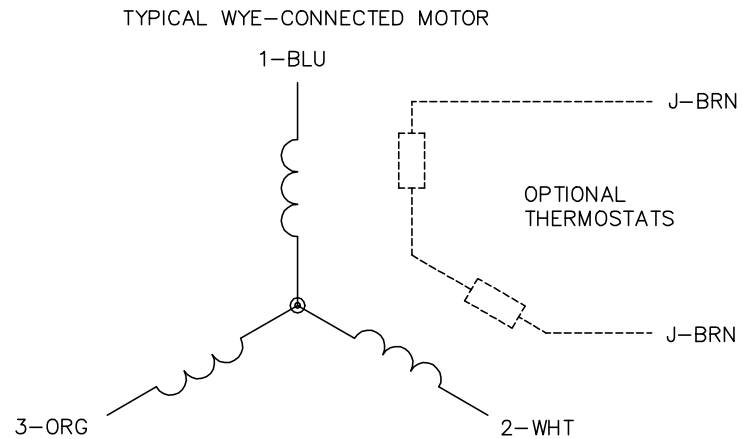
5 HP 3 PH 60 HZ 1160 RPM 575 V 0748M

TORQUES (LB-FT): PO=63.2 PU=43.4 LR=55.3 LRA=36.8





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