

ABB BALDOR RELIANCE III

Customer information packet

ECP83774T-5

10HP, 1760RPM, 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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	1.3
Current @ Voltage	9.800 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AH
Type	AC
Mech. spec.	07K629
Base	
Status	PRD/A
Elec. spec.	07WGY729
Layout	07LYK629
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	04-07-2010

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 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	4
Overall Length	19.50 IN
Power Factor	83
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	Shaft Slinger
Speed	1760 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.	ECP83774T-5								
SPEC.	07K629Y729G1								
HP	10 TE				IP	56			
VOLTS	575								
AMPS	9.8								
R.P.M.	1760								
FRAME	215T		HZ		60		PH	3	
SER.F.	1.15	CODE	H	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6307		ODE		6307				
NEMA NOM. EFF.	91.7		P.F.		83				
GUAR. MIN. EFF.	90.2		CC	010A					
T. CODE	T3C		TEMP=		160				

NP3186									
SPEC.	07K629Y729G1								
ABMA DE BRG	35BC03X30X								
ABMA ODE BRG	35BC03X30X								
GREASE	POLYREX EM								
MOTOR WEIGHT	231	ROTOR BARS		28	STATOR BARS		36		
MAX. R.P.M.	2700	MAX. KVAR		1.53					
INV.TYPE	PWM								
T=	160								
CHP	60	TO		90					
CT	1.3	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 # 92589

Typical performance - not guaranteed values

Winding: 07WGY729-R027				Type: 0748M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10		Full Load Torque		29.8 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		9.8		Breakdown Torque		82.6 LB-FT	
R.P.M.		1760		Pull-up Torque		41.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		53.9 LB-FT	
NEMA Design Code		B		KVA Code		H	
Service Factor (S.F.)		1.15		Starting Current		64.8 A	
NEMA Nom. Eff.		91.7		Power Factor		83	
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, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	70	79	83	85	84	84
Efficiency	90.1	92.1	92.7	91.7	90.9	89.1	91.5
Speed	1791	1782	1774	1764	1752	1738	1757
Line amperes	4.28	5.74	7.6	9.79	12.2	15	11.2

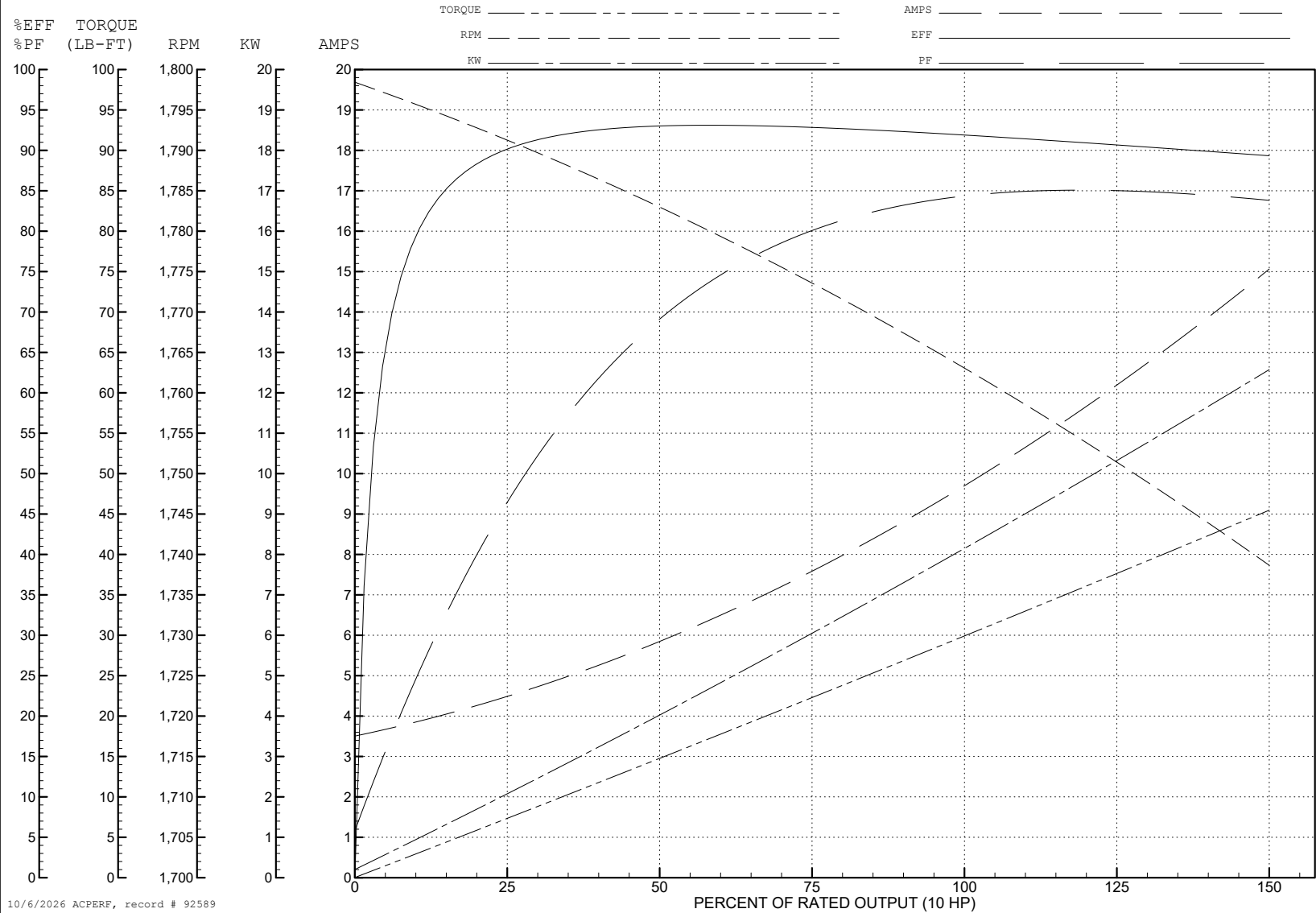
ABB Motors and Mechanical Inc.

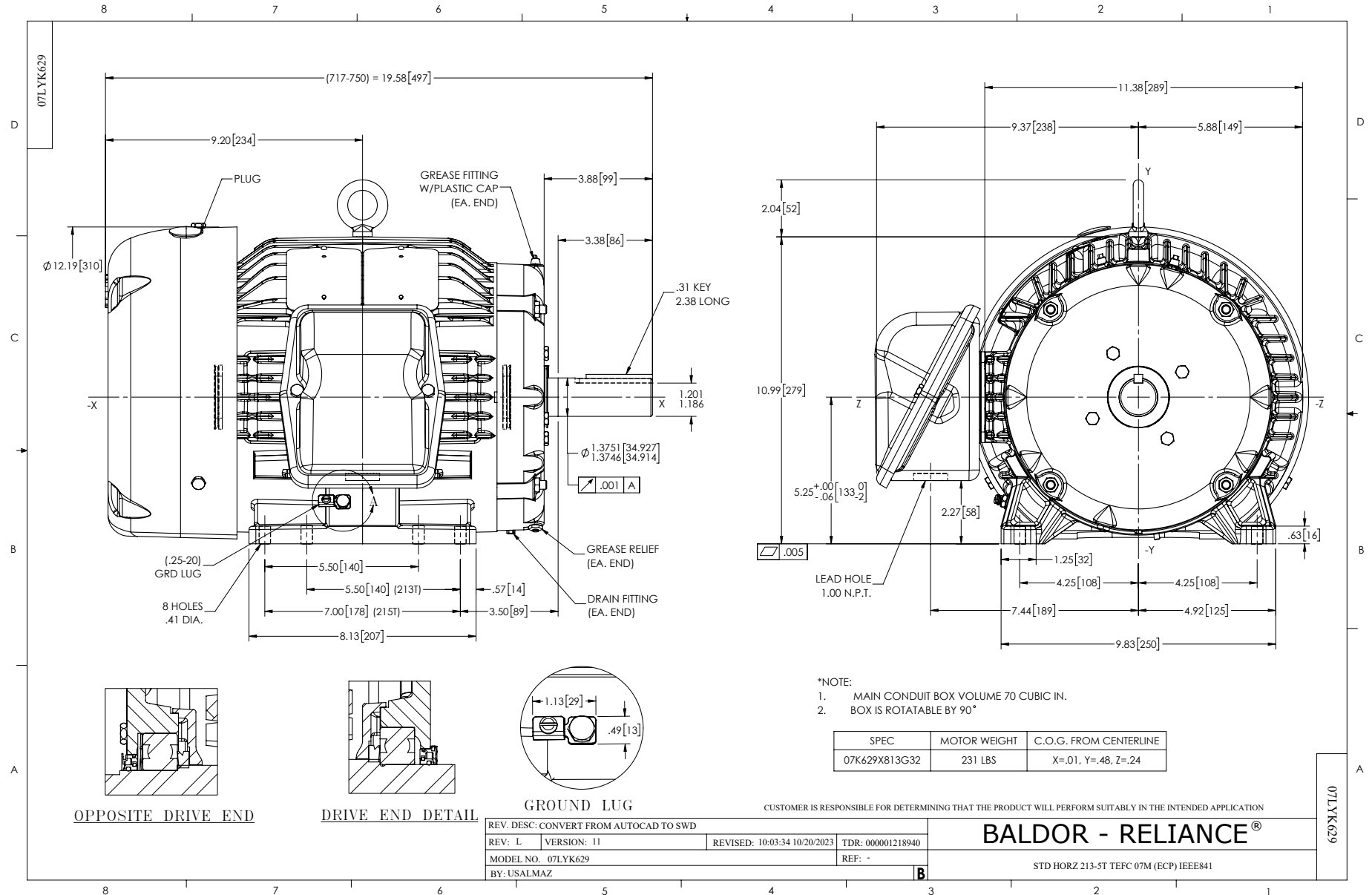
WINDING # 07WGY729

Typical performance - not guaranteed values.

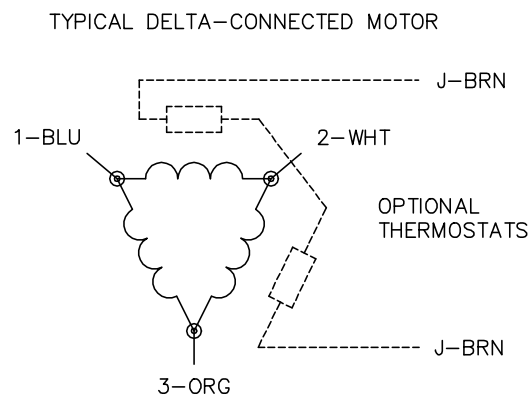
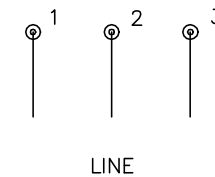
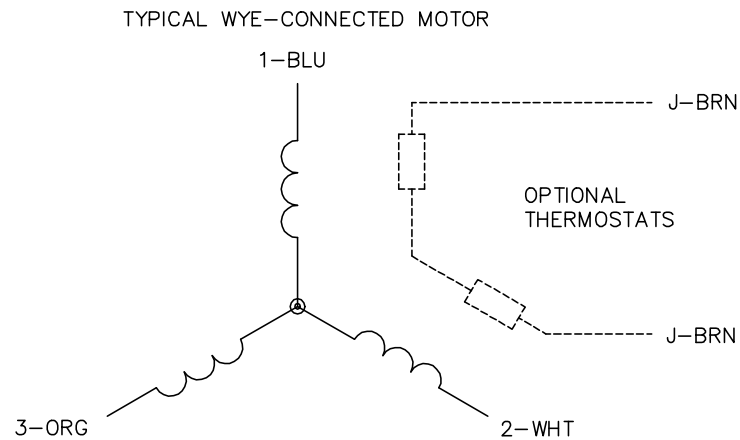
10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

TORQUES (LB-FT): PO=82.6 PU=41.2 LR=53.9 LRA=64.8





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

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