ABB BALDOR RELIANCE

Customer information packet

ECP83774T-4

10HP, 1760RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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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	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA
	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	1.3
Current @ Voltage	12.300 A @ 460.0 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

Part Detail

Revision	AV
Type	AC
Mech. spec.	07K629
Base	
Status	PRD/A
Elec. spec.	07WGX813
Layout	07LYK629
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	08-09-2006

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.3 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	19.58 IN
Power Factor	81
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
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	Shaft Slinger
Speed	1765 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-4								
SPEC.	07K629X813								
HP	10 TE			**IP**	56				
VOLTS	460								
AMPS	12.3								
R.P.M.	1765								
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.**	81						
GUAR. MIN. EFF.	90.2	**CC**	010A						
T. CODE	T3C	**TEMP=**	160						

NP3186							
SPEC.	07K629X813						
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**	1.95				
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	N/A			**MAX. SPACE HEATER TEMP.**	N/A		

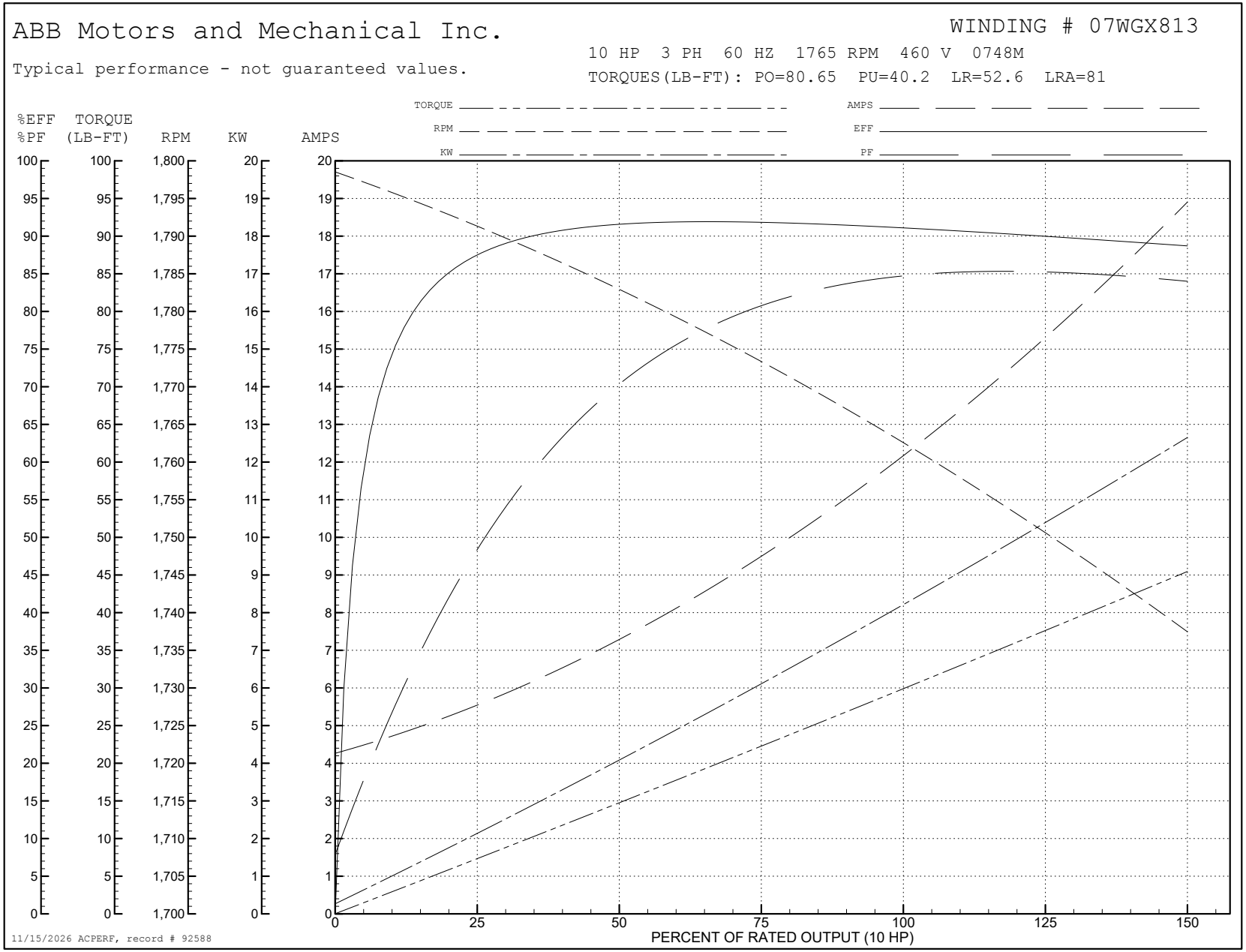
AC Induction Motor Performance Data
Record # 92588
Typical performance - not guaranteed values

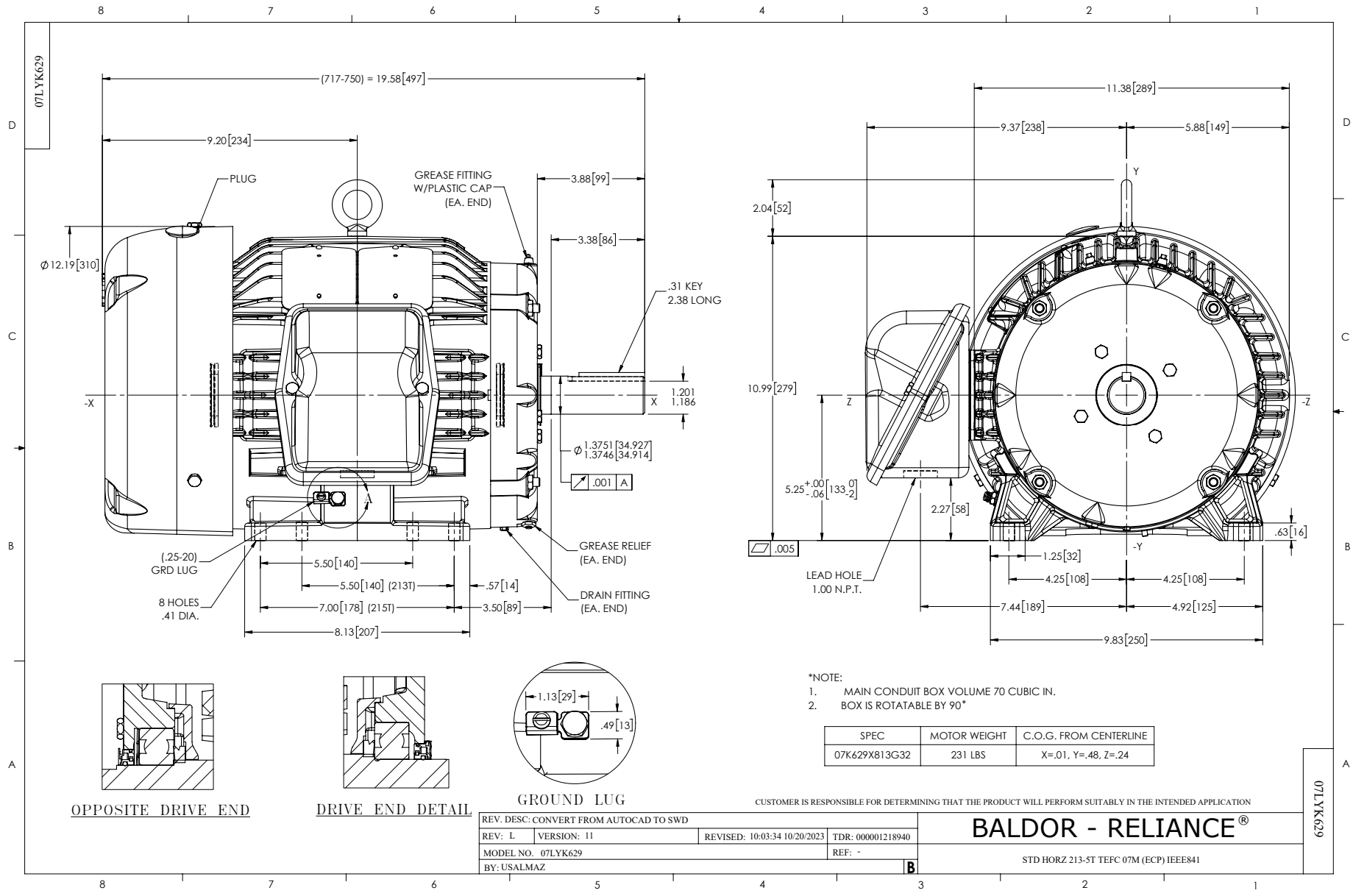
Winding: 07WGX813-R059	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.85 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			12.3	**Breakdown Torque**	80.65 LB-FT
R.P.M.			1765	**Pull-up Torque**	40.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	52.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	81 A
Service Factor (S.F.)			1.15	**No-load Current**	4.45 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.08 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	35.1
				Rotor inertia	1.18 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	72	80	83	85	85	84
Efficiency	87.3	90.8	91.7	91.7	90.2	88.5	91
Speed	1791	1782	1774	1763	1751	1737	1756
Line amperes	5.29	7.18	9.54	12.29	15.36	18.81	14


ABB Motors and Mechanical Inc.
WINDING # 07WGX813
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1765 RPM 460 V 0748M
TORQUES(LB-FT): PO=80.65 PU=40.2 LR=52.6 LRA=81
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/15/2026 ACPERF, record # 92588



OPPOSITE DRIVE END

DRIVE END DETAIL

GROUND LUG

*NOTE:
1. MAIN CONDUIT BOX VOLUME 70 CUBIC IN.
2. BOX IS ROTATABLE BY 90°

SPEC	MOTOR WEIGHT	C.O.G. FROM CENTERLINE
07K629X813G32	231 LBS	X=.01, Y=.48, Z=.24

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CONVERT FROM AUTOCAD TO SWD			
REV: L	VERSION: 11	REVISED: 10:03:34 10/20/2023	TDR: 000001218940
MODEL NO. 07LYK629			REF: -
BY: USALMAZ			B

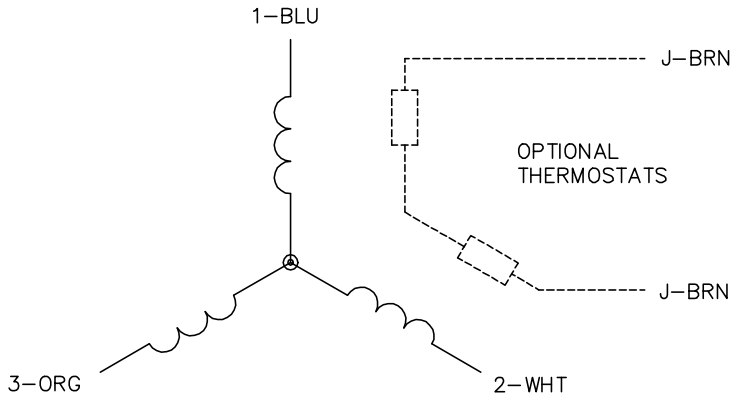
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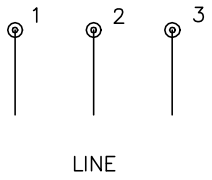
STD HORZ 213-5T TEFC 07M (ECP) IEEE841

07LYK629

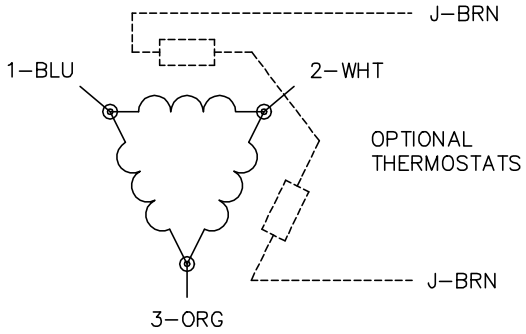
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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