ABB BALDOR RELIANCE

Customer information packet

VECP83774T-4

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

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Specifications

Enclosure	TEFC
Frame	215TC
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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	12.500 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
Front Face Code	Standard

Part Detail

Revision	AF
Type	AC
Mech. spec.	07M323
Base	
Status	PRD/A
Elec. spec.	07WGX813
Layout	07LYM323
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	08-21-2012

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 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	20.24 IN
Power Factor	81
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	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.	VECP83774T-4							
SPEC.	07M323X813G1							
HP	10 TE			**IP**	56			
VOLTS	460							
AMPS	12.3							
R.P.M.	1765							
FRAME	215TC	**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.	07M323X813G1					
ABMA DE BRG	35BC03X30X					
ABMA ODE BRG	35BC03X30X					
GREASE	POLYREX EM					
MOTOR WEIGHT	231	**ROTOR BARS**		**STATOR BARS**	36	
MAX. R.P.M.	2700	**MAX. KVAR**	1.95			
INV.TYPE	PWM					
T=	160					
CHP	60	**TO**	90			
CT	1.2	**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 # 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

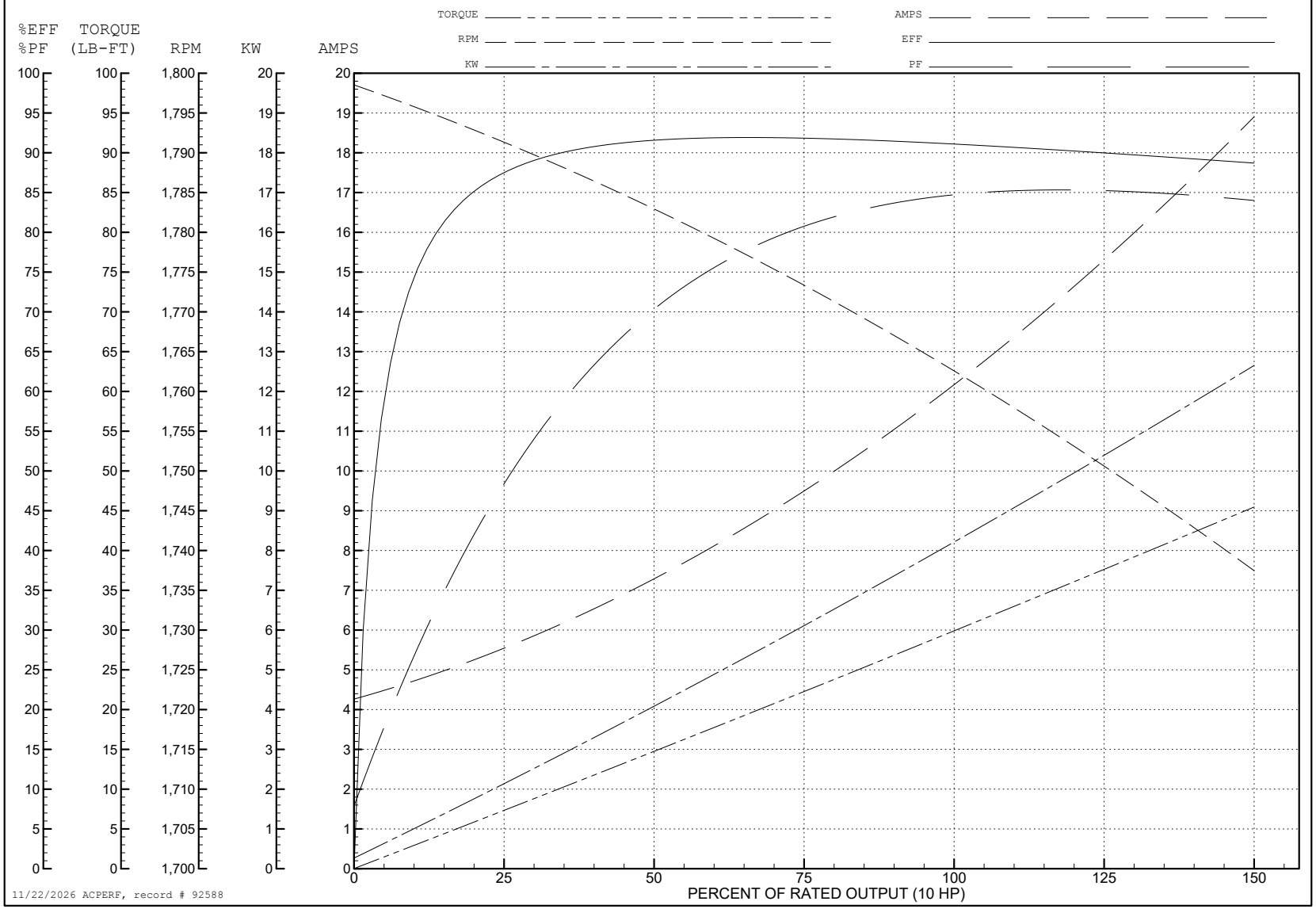
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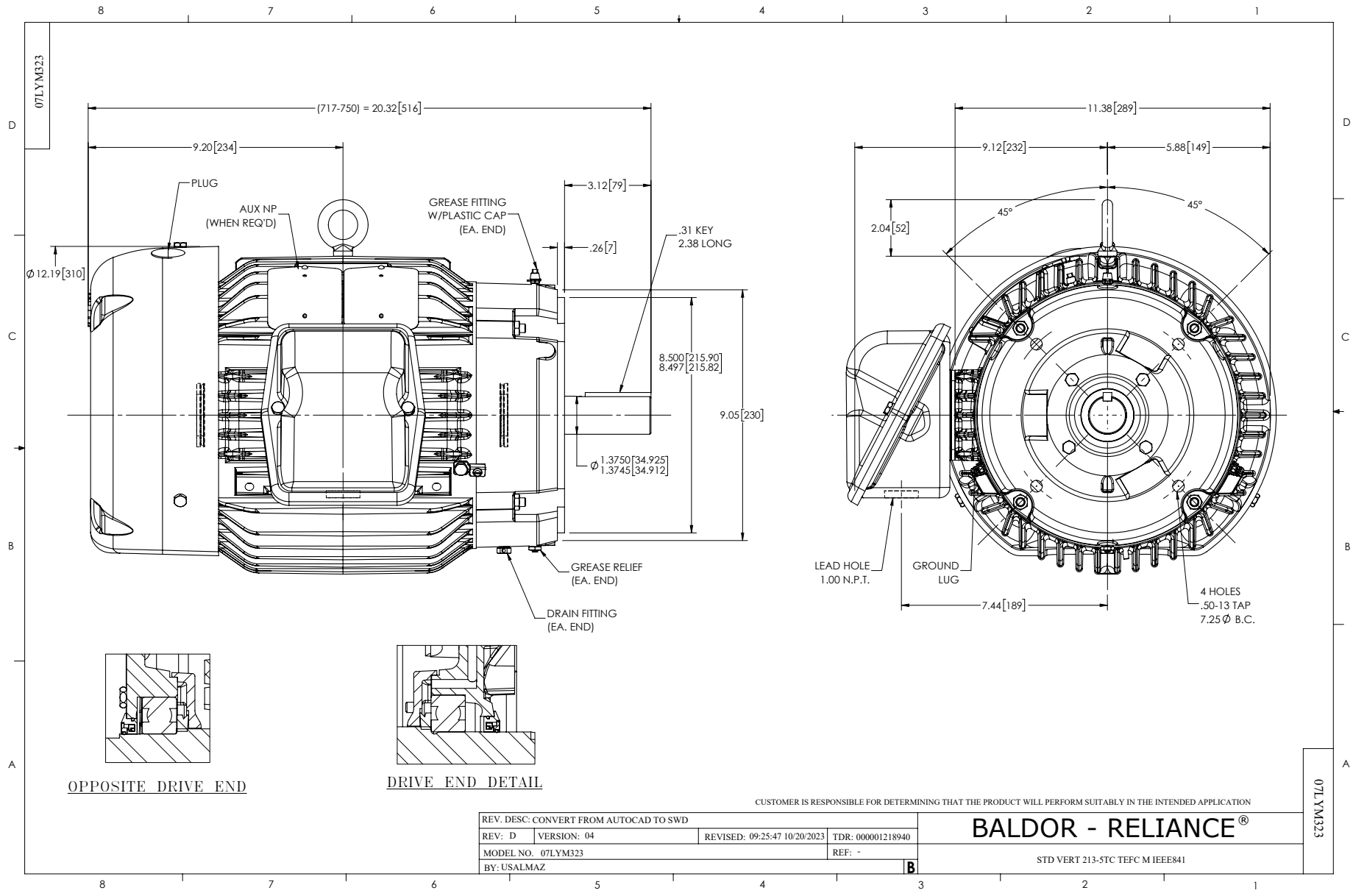
WINDING # 07WGX813

10 HP 3 PH 60 HZ 1765 RPM 460 V 0748M

Typical performance - not guaranteed values.

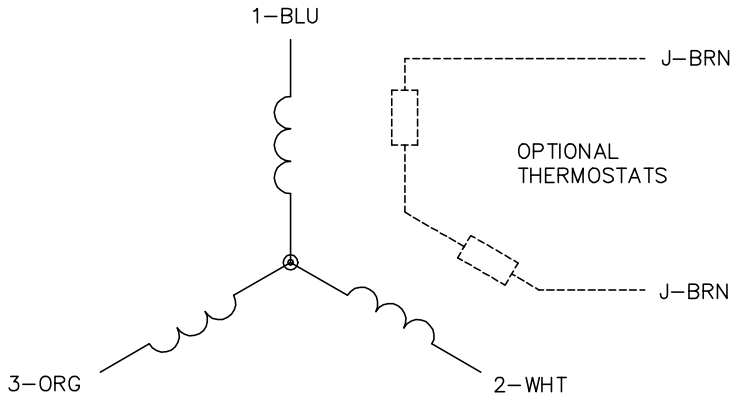
TORQUES(LB-FT): PO=80.65 PU=40.2 LR=52.6 LRA=81

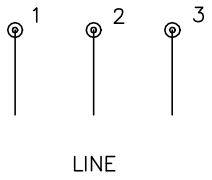



07LYM323
(717-750) = 20.32[516]
9.20[234]
PLUG
AUX NP
(WHEN REQ'D)
GREASE FITTING
W/PLASTIC CAP
(EA. END)
3.12[79]
.26[7]
.31 KEY
2.38 LONG
Ø 12.19[310]
8.500[215.90]
8.497[215.82]
9.05[230]
Ø 1.3750[34.925]
1.3745[34.912]
GREASE RELIEF
(EA. END)
DRAIN FITTING
(EA. END)
11.38[289]
9.12[232]
5.88[149]
45°
45°
2.04[52]
LEAD HOLE
1.00 N.P.T.
GROUND
LUG
7.44[189]
4 HOLES
.50-13 TAP
7.25Ø B.C.
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: D
VERSION: 04
REVISED: 09:25:47 10/20/2023
TDR: 000001218940
MODEL NO. 07LYM323
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 213-5TC TEFC M IEEE841
07LYM323

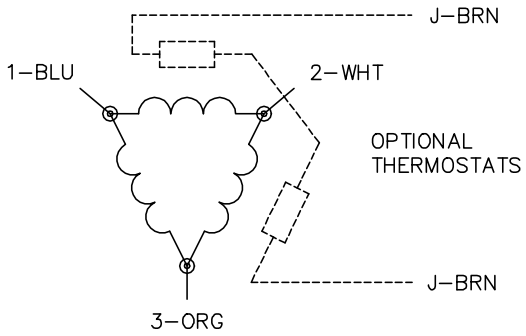
CD0006

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: –		

BALDOR - RELIANCE®

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

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