ABB BALDOR RELIANCE

Customer information packet

CECP83770T-4

7.5HP, 1765RPM, 3PH, 60HZ, 213TC, 0740M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	213TC
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	7.500 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.2
Current @ Voltage	9.500 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	AK
Type	AC
Mech. spec.	07M320
Base	
Status	PRD/A
Elec. spec.	07WGX814
Layout	07LYM320
Eff. date	05-12-2025
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	9.5 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	Ring Terminals
Motor Standards	NEMA
Motor Type	0740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.23 IN
Power Factor	82
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
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.	CECP83770T-4								
SPEC.	07M320X814								
HP	7.5 TE			**IP**	56				
VOLTS	460								
AMPS	9.5								
R.P.M.	1765								
FRAME	213TC	**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.**	82						
GUAR. MIN. EFF.	90.2	**CC**	010A						
T. CODE	T3C	**TEMP=**	160						

NP3186							
SPEC.	07M320X814						
ABMA DE BRG	35BC03X30X						
ABMA ODE BRG	35BC03X30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	178	**ROTOR BARS**	28	**STATOR BARS**	36		
MAX. R.P.M.	2700	**MAX. KVAR**	1.3				
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 # 92344
Typical performance - not guaranteed values

Winding: 07WGX814-R056	**Type:** 0740M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.32 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			9.5	**Breakdown Torque**	66.8 LB-FT
R.P.M.			1765	**Pull-up Torque**	30 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	39.7 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	63.5 A
Service Factor (S.F.)			1.15	**No-load Current**	3.71 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.485 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	36.2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	82	84	85	83
Efficiency	88.6	92.1	92.4	91.7	90.7	89.3	91.1
Speed	1789.9	1782.7	1774.5	1765.4	1755.6	1743.7	1760
Line amperes	4.3	5.61	7.32	9.31	11.5	13.9	10.6

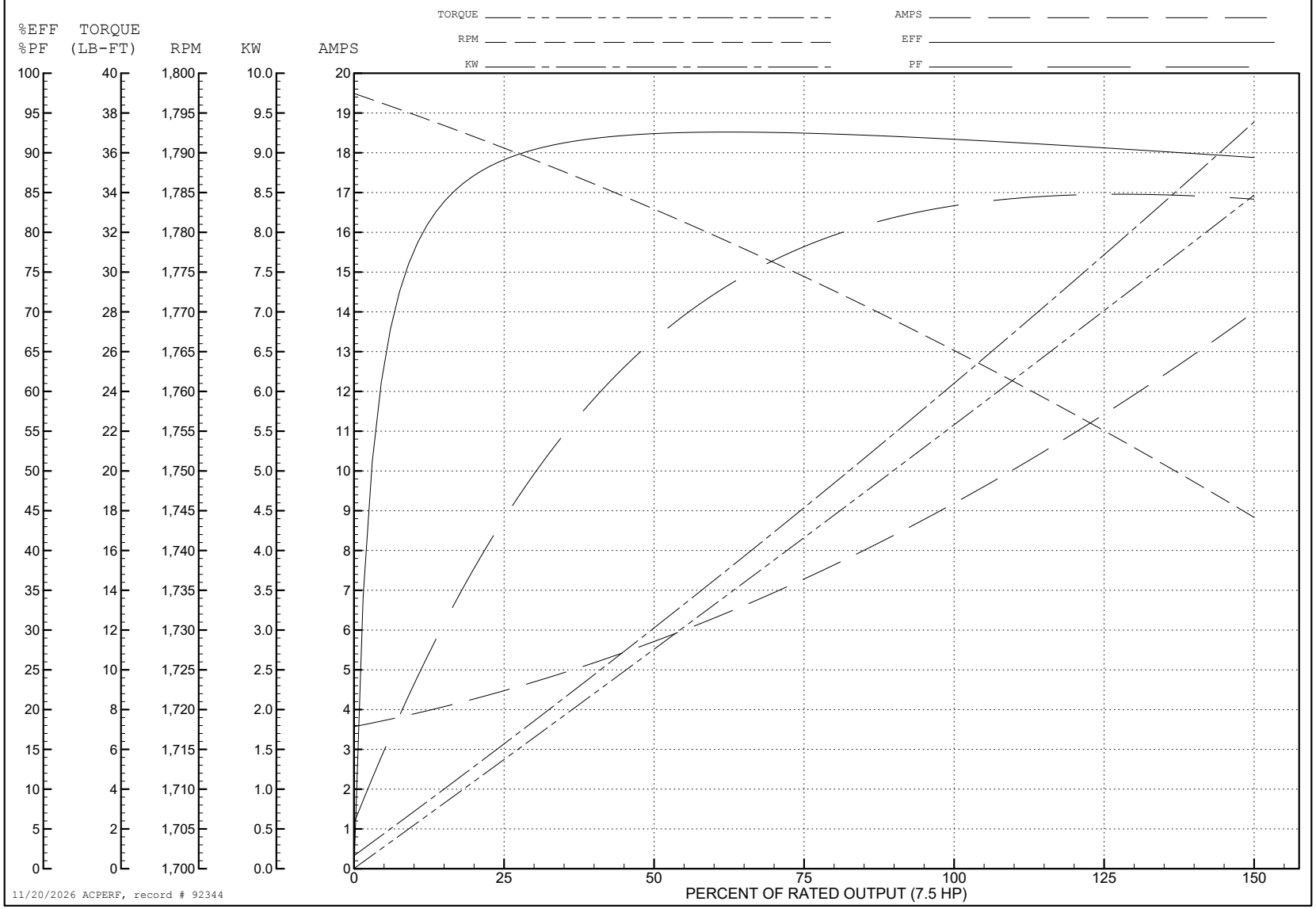
ABB Motors and Mechanical Inc.

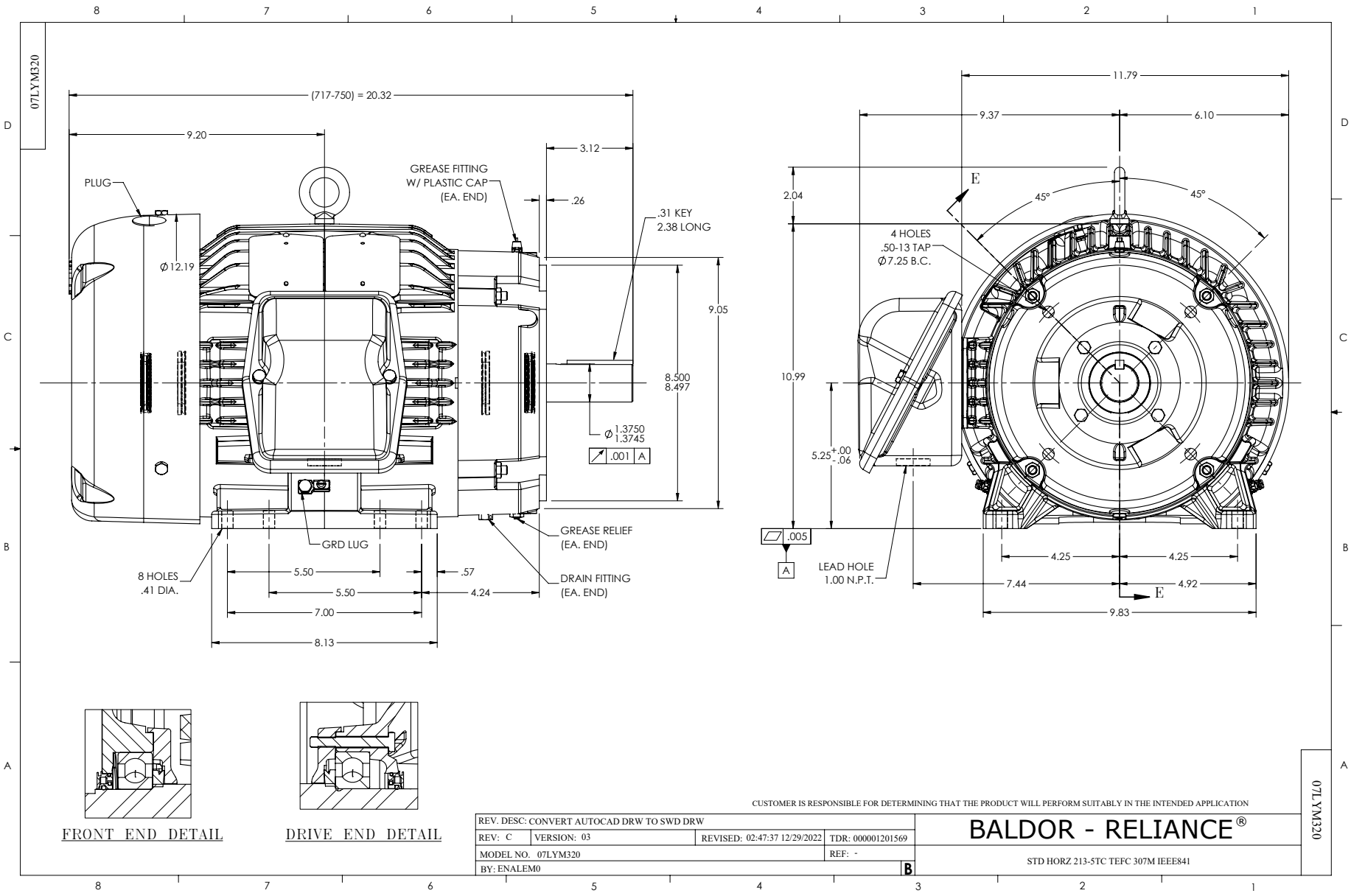
WINDING # 07WGX814

7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0740M

Typical performance - not guaranteed values.

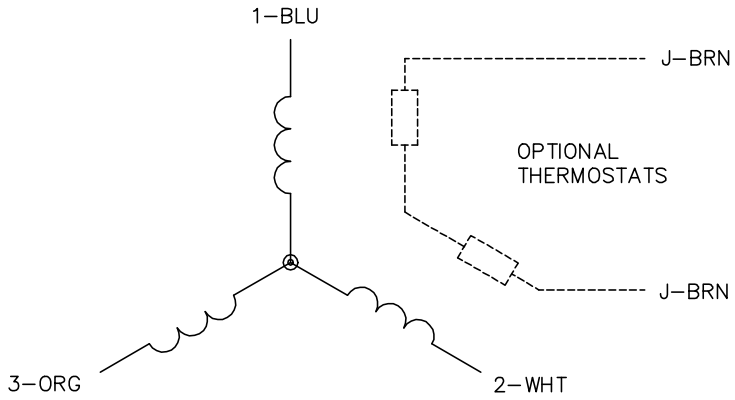
TORQUES(LB-FT): PO=66.8 PU=30 LR=39.7 LRA=63.5

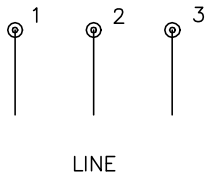



07LYM320
(717-750) = 20.32
9.20
3.12
PLUG
GREASE FITTING
W/ PLASTIC CAP
(EA. END)
.26
.31 KEY
2.38 LONG
Ø12.19
9.05
8.500
8.497
Ø 1.3750
1.3745
.001 A
GRD LUG
GREASE RELIEF
(EA. END)
8 HOLES
.41 DIA.
5.50
.57
5.50
4.24
DRAIN FITTING
(EA. END)
7.00
8.13
11.79
9.37
6.10
2.04
E
45°
45°
4 HOLES
.50-13 TAP
Ø7.25 B.C.
10.99
5.25 +.00 -.06
.005
A
LEAD HOLE
1.00 N.P.T.
4.25
4.25
7.44
4.92
E
9.83
FRONT END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 03
REVISED: 02:47:37 12/29/2022
TDR: 000001201569
MODEL NO. 07LYM320
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC 307M IEEE841
07LYM320

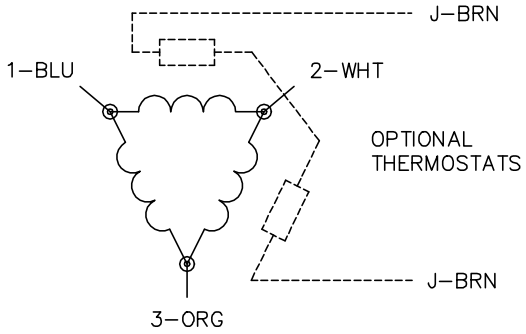
CD0006

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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