ABB BALDOR RELIANCE

Customer information packet

ECP3769T

7.5HP, 3510RPM, 3PH, 60HZ, 213T, 0732M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	213T
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	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	6
Current @ Voltage	8.600 A @ 460.0 V
	17.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	R
Type	AC
Mech. spec.	07H003
Base	
Status	PRD/A
Elec. spec.	07WGY010
Layout	07LYH003
Eff. date	09-01-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	12-29-2010

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0732M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.50 IN
Power Factor	88
Product Family	Chemical Processing (Not DC)
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	3510 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

NP3257								
CAT.NO.	ECP3769T							
SPEC.	07H003Y010G1							
HP	7.5 TE							
VOLTS	230/460							
AMP	17.2/8.6							
RPM	3510							
FRAME	213T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6307	**ODE**	6206					
NEMA-NOM-EFF	91	**PF**	88					
G.MIN.EFF	91	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	07H003Y010G1				
D.E. BRG.	35BC03XP30X				
O.D.E. BRG.	30BC02XP30X				
GREASE	POLYREX EM				
RPM MAX	5400	**MAX. KVAR**	N/A		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	6	**CT HZ TO**	60		
VT HZ FROM	3	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

AC Induction Motor Performance Data
Record # 47061
Typical performance - not guaranteed values

Winding: 07WGY010-R020	**Type:** 0732M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			17.2/8.6	**Breakdown Torque**	45.1 LB-FT
R.P.M.			3510	**Pull-up Torque**	15 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.3 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	61.4 A
Service Factor (S.F.)			1.15	**No-load Current**	2.75 A
NEMA Nom. Eff.	91	**Power Factor**	88	**Line-line Res. @ 25ºC**	1.14 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	31.7
				Rotor inertia	0.292 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	78	85	89	89	90	89
Efficiency	86.8	91.2	92.2	91.8	90.9	89.8	91.3
Speed	3579	3558	3536	3510	3484	3454	3494
Line amperes	3.42	4.86	6.63	8.52	10.7	13	9.84

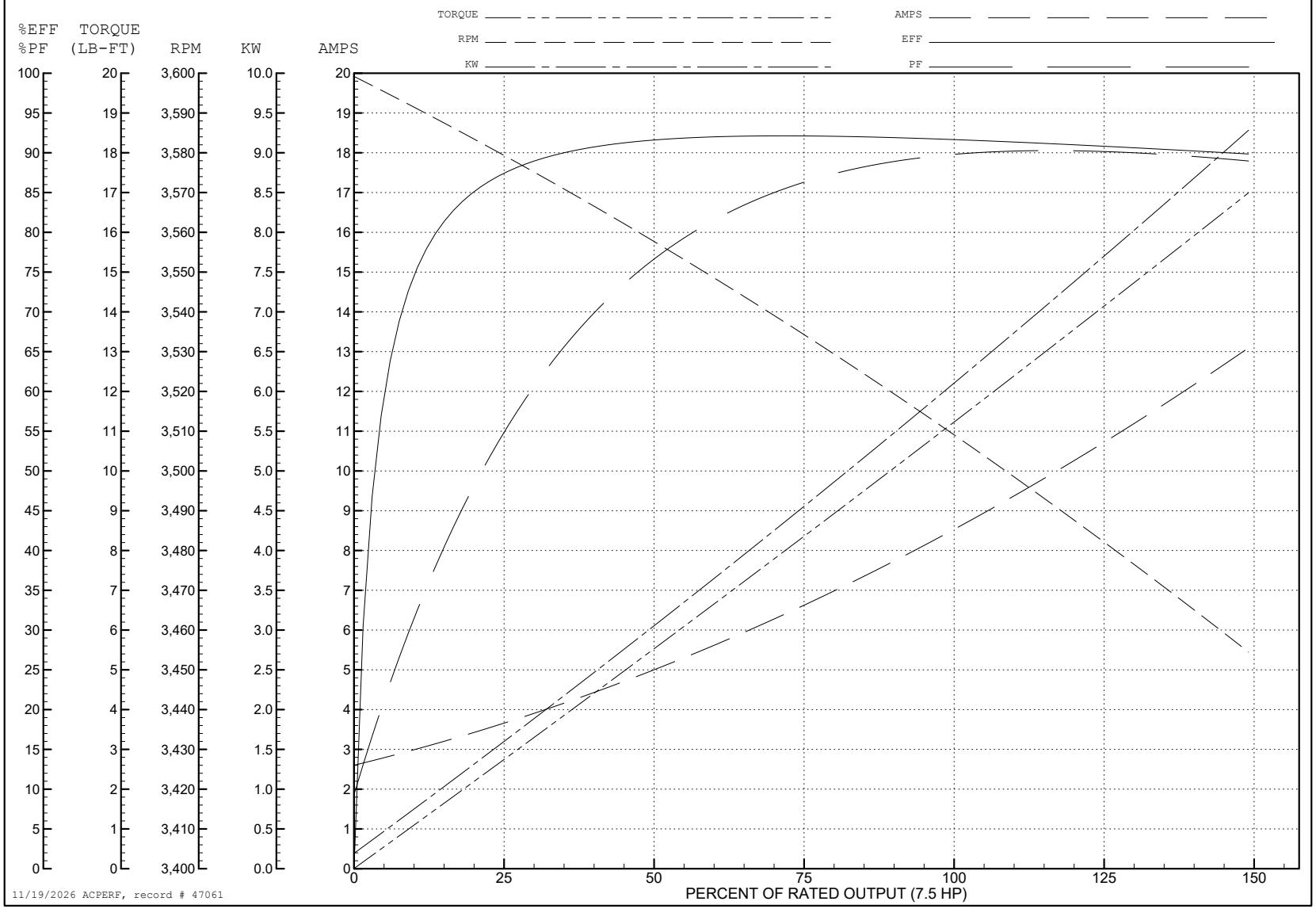
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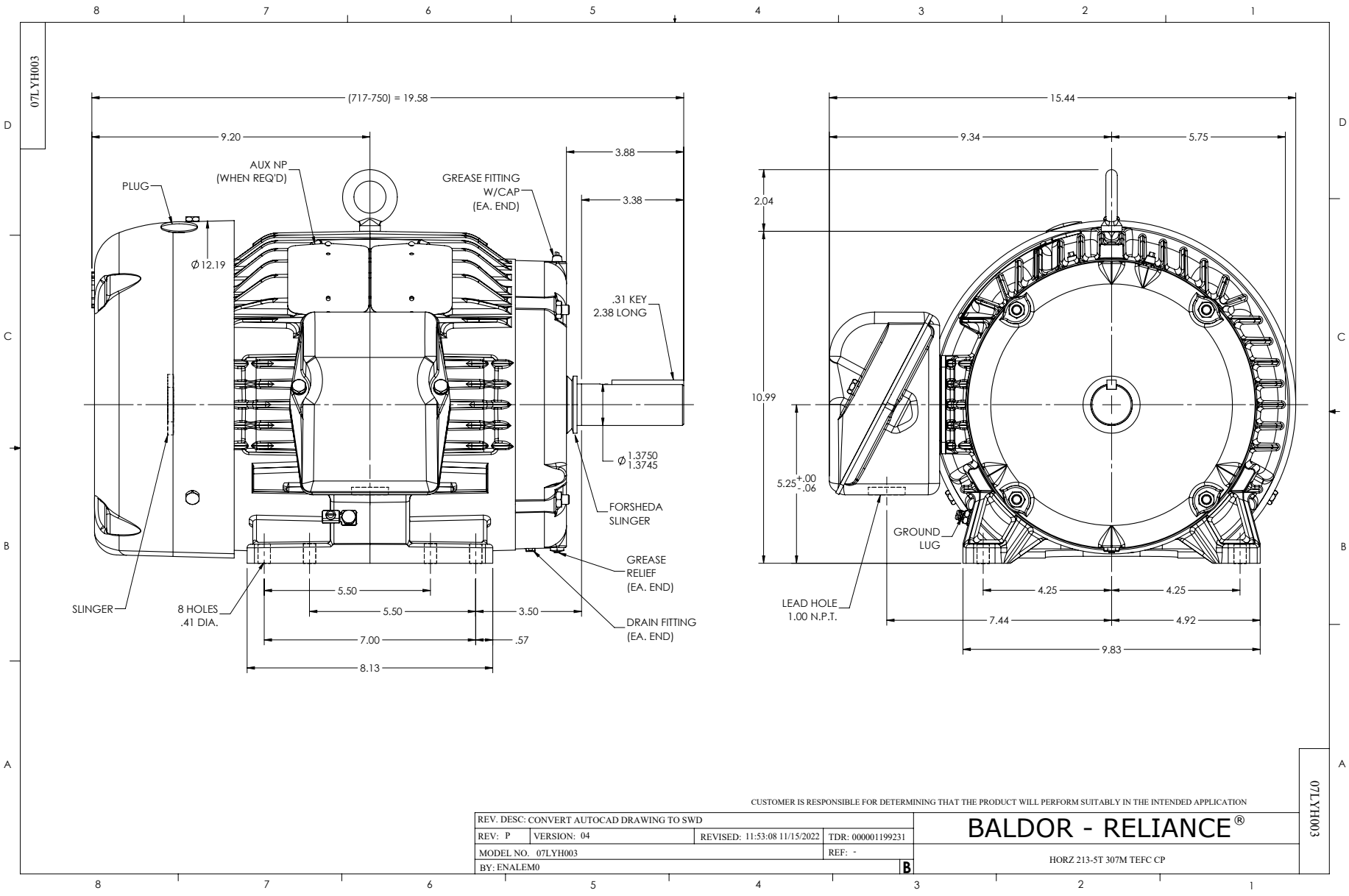
WINDING # 07WGY010

7.5 HP 3 PH 60 HZ 3510 RPM 460 V 0732M

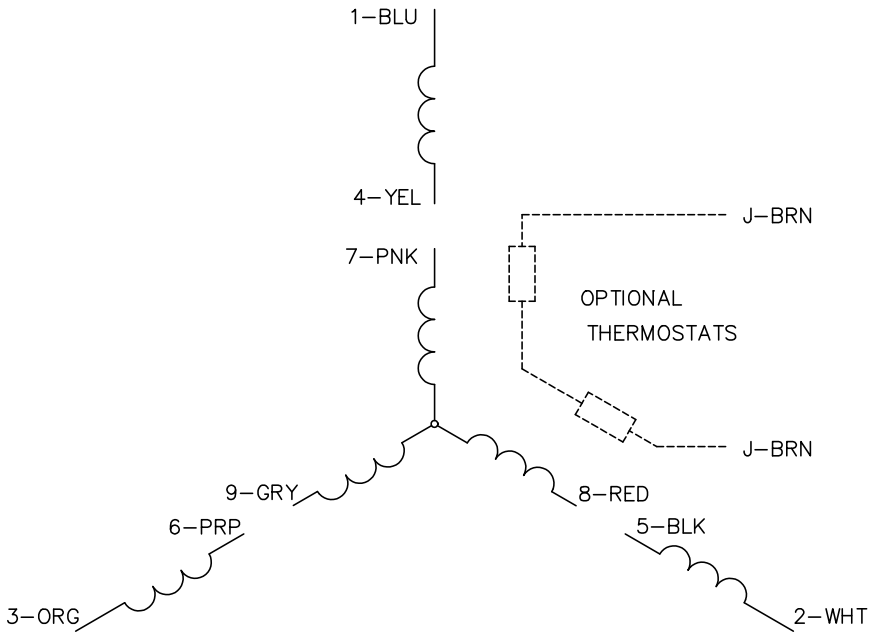
Typical performance - not guaranteed values.

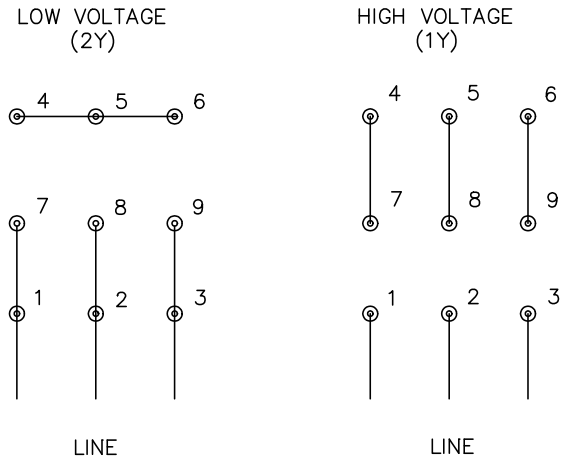
TORQUES(LB-FT): PO=45.1 PU=15 LR=21.3 LRA=61.4




07LYH003
(717-750) = 19.58
9.20
3.88
3.38
AUX NP
(WHEN REQ'D)
PLUG
GREASE FITTING
W/CAP
(EA. END)
Ø12.19
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
SLINGER
GREASE
RELIEF
(EA. END)
SLINGER
8 HOLES
.41 DIA.
5.50
5.50
3.50
7.00
.57
8.13
DRAIN FITTING
(EA. END)
15.44
9.34
5.75
2.04
10.99
5.25 +.00 -.06
GROUND
LUG
LEAD HOLE
1.00 N.P.T.
4.25
4.25
7.44
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: P
VERSION: 04
REVISED: 11:53:08 11/15/2022
TDR: 000001199231
MODEL NO. 07LYH003
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T 307M TEFC CP
07LYH003

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS