ABB BALDOR RELIANCE

Customer information packet

VECP3769T-4

7.5HP, 3510RPM, 3PH, 60HZ, 213TC, 0732M, 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	3600 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	6
Current @ Voltage	8.900 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Z
Type	AC
Mech. spec.	07K370
Base	
Status	PRD/A
Elec. spec.	07WGY929
Layout	07LYK370
Eff. date	09-09-2022
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	11-29-2011

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0732M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.36 IN
Power Factor	89
Product Family	Chemical Processing (Not DC)
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	3480 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.	VECP3769T-4							
SPEC.	07K370Y929G1							
HP	7.5 TE							
VOLTS	460							
AMP	8.9							
RPM	3480							
FRAME	213TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6307	**ODE**	6307					
NEMA-NOM-EFF	89.5	**PF**	89					
G.MIN.EFF	90.2	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	07K370Y929G1				
D.E. BRG.	35BC03XP30X				
O.D.E. BRG.	35BC03XP30X				
GREASE	POLYREX EM				
RPM MAX	5400	**MAX. KVAR**	0.34		
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 # 95372
Typical performance - not guaranteed values

Winding: 07WGY929-R034	**Type:** 0732M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	11.38 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			8.9	**Breakdown Torque**	40.1 LB-FT
R.P.M.			3480	**Pull-up Torque**	18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	62 A
Service Factor (S.F.)			1.15	**No-load Current**	2.79 A
NEMA Nom. Eff.	89.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	1.1813 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	20°C
S.F. Amps				**Temp. Rise @ S.F. Load**	24°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	60	79	86	89	90	91	90
Efficiency	86	90.4	91.2	90.7	89.8	88.5	90.2
Speed	3574	3551	3528	3503	3476	3446	3487
Line amperes	3.53	4.96	6.84	8.87	11	13.3	10.1

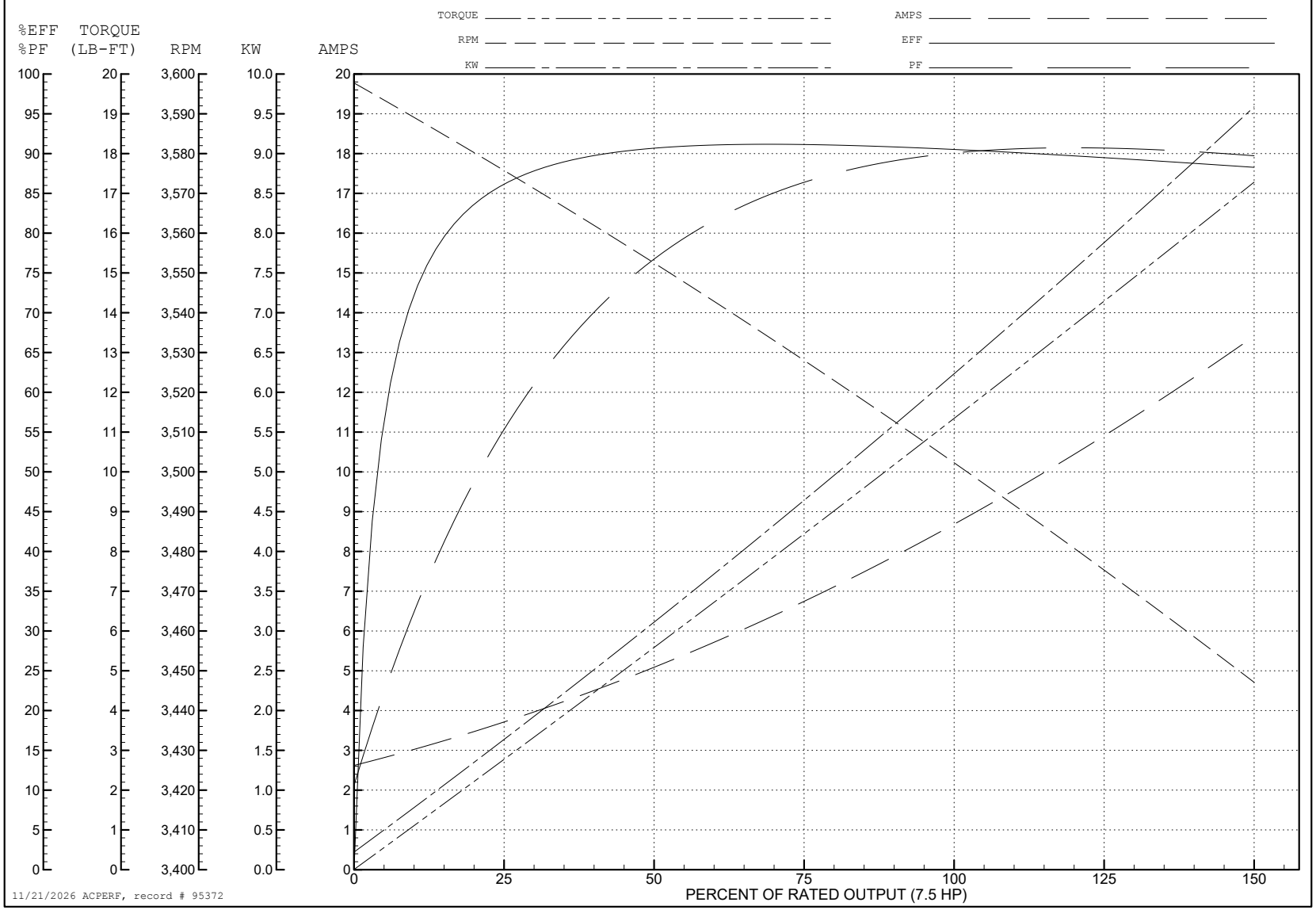
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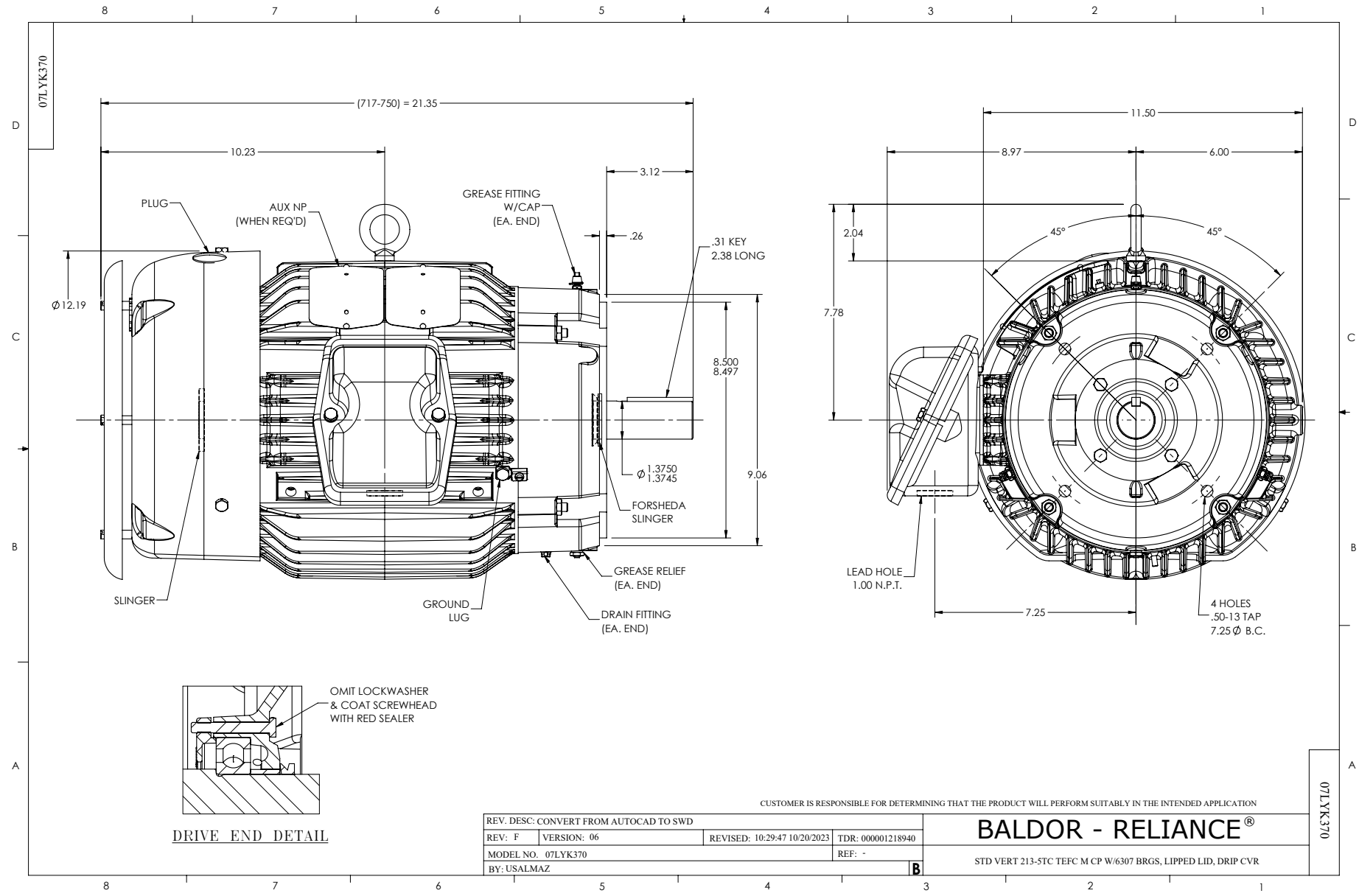
WINDING # 07WGY929

7.5 HP 3 PH 60 HZ 3480 RPM 460 V 0732M

Typical performance - not guaranteed values.

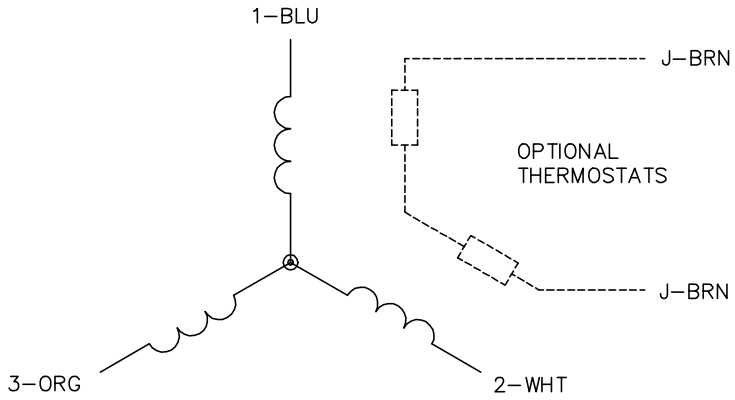
TORQUES(LB-FT): PO=40.1 PU=18 LR=21.6 LRA=62

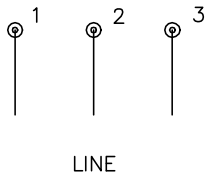



07LYK370
(717-750) = 21.35
10.23
3.12
PLUG
AUX NP
(WHEN REQ'D)
GREASE FITTING
W/CAP
(EA. END)
.26
.31 KEY
2.38 LONG
Ø12.19
8.500
8.497
9.06
Ø 1.3750
1.3745
FORSHEDA
SLINGER
GREASE RELIEF
(EA. END)
SLINGER
GROUND
LUG
DRAIN FITTING
(EA. END)
11.50
8.97
6.00
2.04
45°
45°
7.78
LEAD HOLE
1.00 N.P.T.
7.25
4 HOLES
.50-13 TAP
7.25Ø B.C.
OMIT LOCKWASHER
& COAT SCREWHEAD
WITH RED SEALER
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: F
VERSION: 06
REVISED: 10:29:47 10/20/2023
TDR: 000001218940
MODEL NO. 07LYK370
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 213-5TC TEFC M CP W/6307 BRGS, LIPPED LID, DRIP CVR
07LYK370

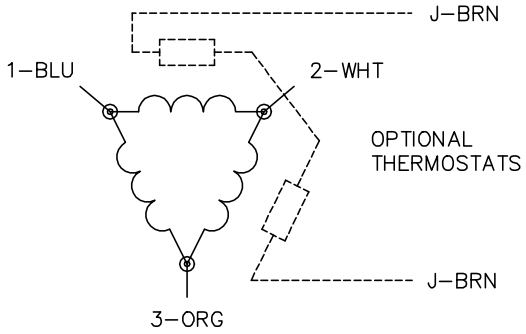
CD0006

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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