ABB BALDOR RELIANCE

Customer information packet

IDNM3669T

2HP, 1760RPM, 3PH, 60HZ, 182TC, 0624M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	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
Current @ Voltage	6.000 A @ 230.0 V
	3.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	06F551
Base	
Status	PRD/A
Elec. spec.	06WGX813
Layout	06LYF551
Eff. date	10-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-08-2016

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0624M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.21 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP4544L									
CAT.NO.	IDNM3669T								
SPEC.	06F551X813G1								
FRAME	182TC		**H.P.**	2					
VOLTS	230/460								
MAG. CUR.	3.8/1.9				**F.L. AMPS**	6/3			
R.P.M.	1760				**R.P.M. MAX**	6000			
HZ.	60		**PH.**	3	**CLASS**	H			
SER.F.	1.00		**DES.**	B	**SL HZ**	1.3			
NEMA NOM. EFF.	88.5		**WK2**	0.22					
BLOWER		**V**			**PH**		**HZ**		**AMPS**
RATING	40C AMB-CONT				**ENCL**	TENV			
DE	6206	**ODE**	6205						
CC	010A	**SN**							
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA321747	SA 06F551X813G1	1.000 ea
RA309527	RA 06F551X813G1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET,CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1101B70	FR TENV 205 BRG W/ GRSR & THRU-SHAFT ENC	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE1300A01	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A26	1/4-20X 1 5/8 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
35FH4801G	THRU-SHAFT ENCODER COVER INV/VECTOR F1 &	1.000 ea
WD4129	1.50 X 1.50 GRAY SNAP IN PLUG PROMOULD #	2.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	4.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.028 ga
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea

NP4544L	ALUM INV UL EEV CC NEMA PREM W/ENCL	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	45446	Base Volt	460	R1	3.320	X1	6.760
HP	2	NL AMPS	1.85	R2	1.870	X2	5.300
BASE SPEED	1762	Slip (HZ)	1.27			XM	132.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.223				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1762	2.0	6.0	460	60	3.0
Max Speed	2643	2.0	4.0	460	90	2.6
CT Min Speed	1.762	0.002	6.0	0.46	0.06	3.0

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1796	0.0	0.0	460	60	1.9
1/4	1791	0.5	1.5	460	60	2.0
1/2	1782	1.0	2.9	460	60	2.2
3/4	1773	1.5	4.5	460	60	2.5
Full Load	1762	2.0	6.0	460	60	3.0
O/L	1726	4.0	12.3	460	60	5.2

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data

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DATE 11/1/2024

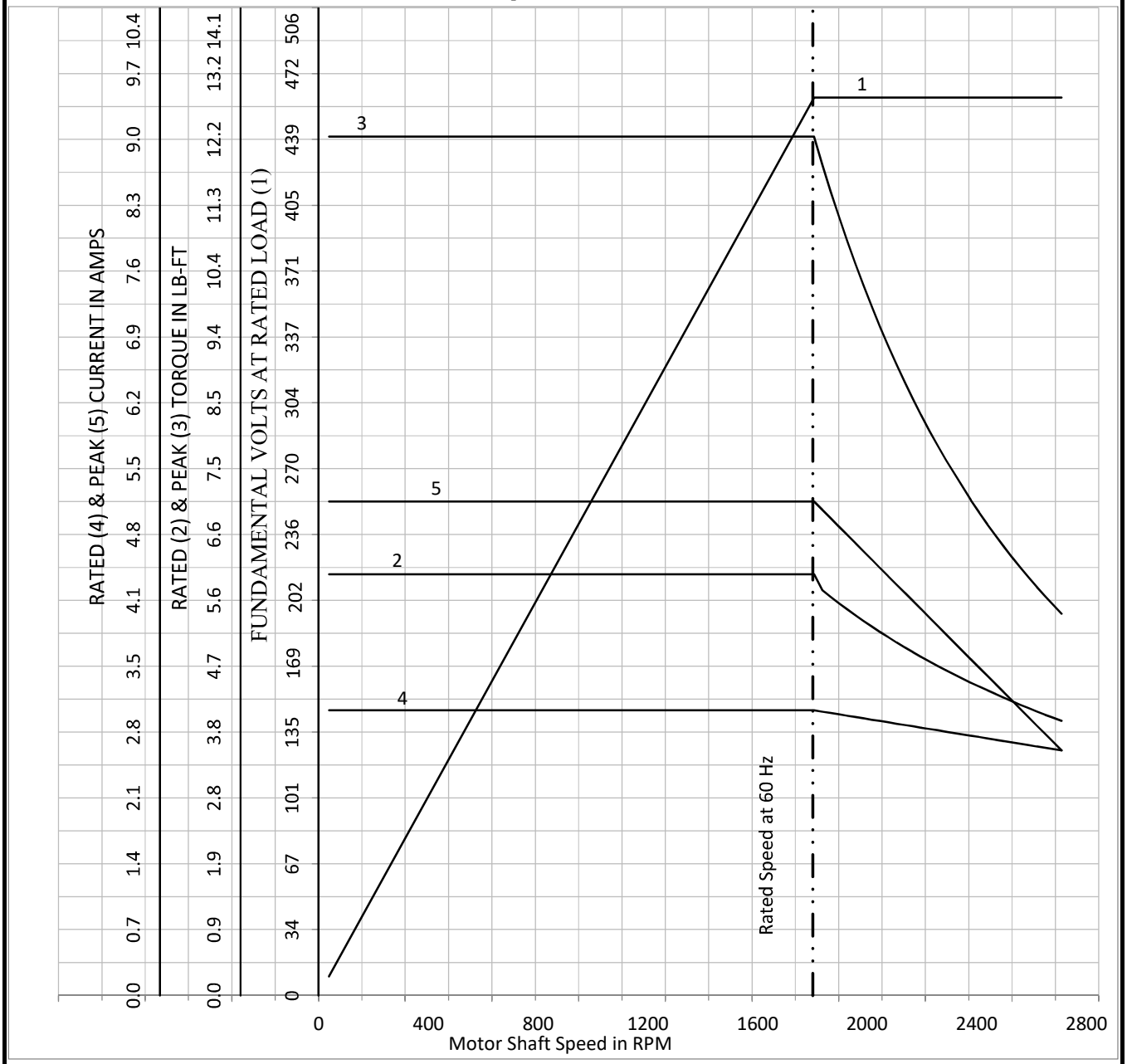
A-C MOTOR PERFORMANCE CURVES

06WGX813

Record: 58281

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	45446	Base Volt	460	R1	3.320	X1	6.760
HP	2	NL AMPS	1.85	R2	1.870	X2	5.300
BASE SPEED	1762	Slip (HZ)	1.27			XM	132.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.223				

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

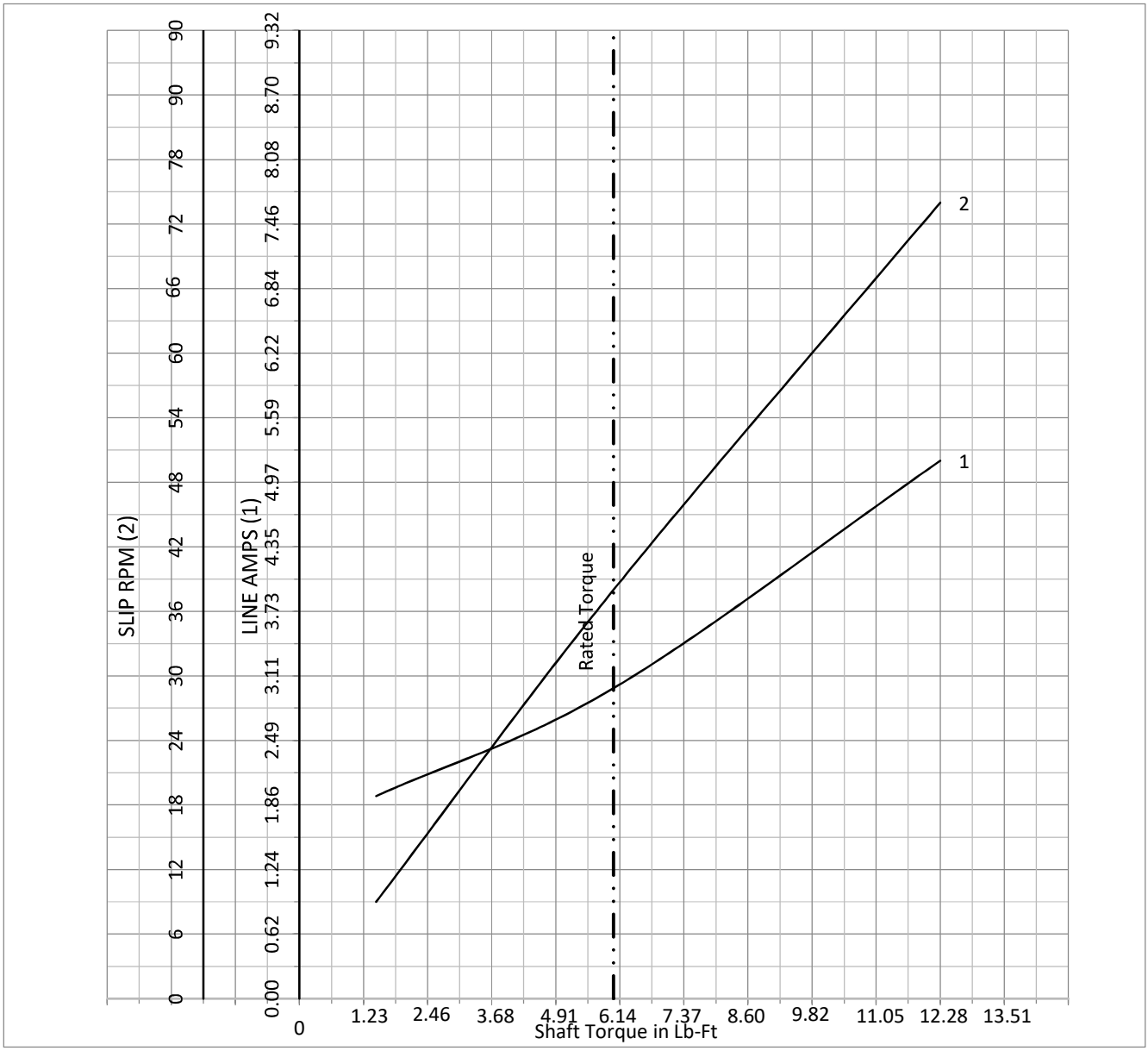
06WGX813

Record: 58281

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	45446	Base Volt	460	R1	3.320	X1	6.760
HP	2	NL AMPS	1.85	R2	1.870	X2	5.300
BASE SPEED	1762	Slip (HZ)	1.27			XM	132.000
PHASE/HZ	3/60	WK2 (lb-ft2)	0.223				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

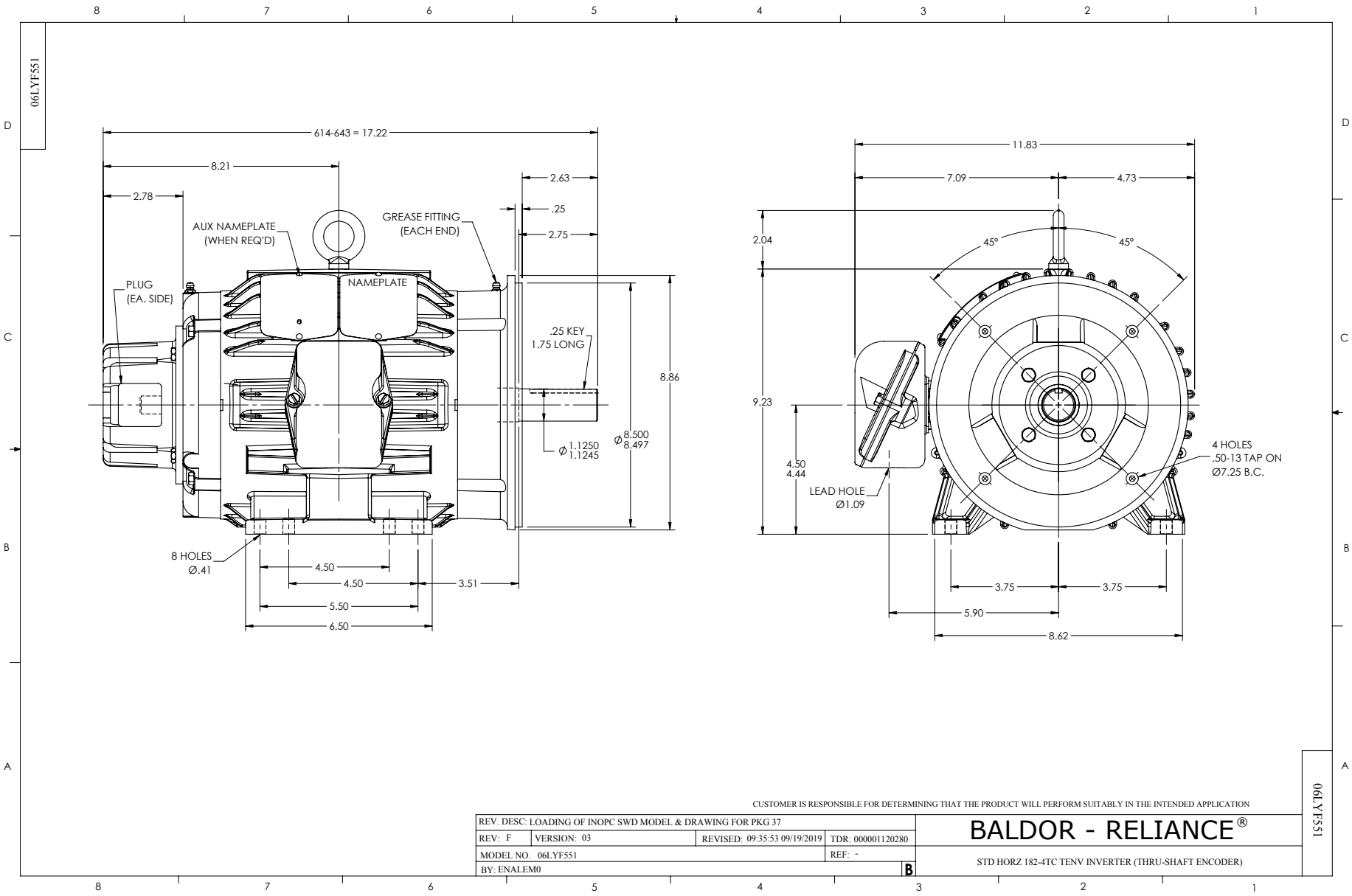
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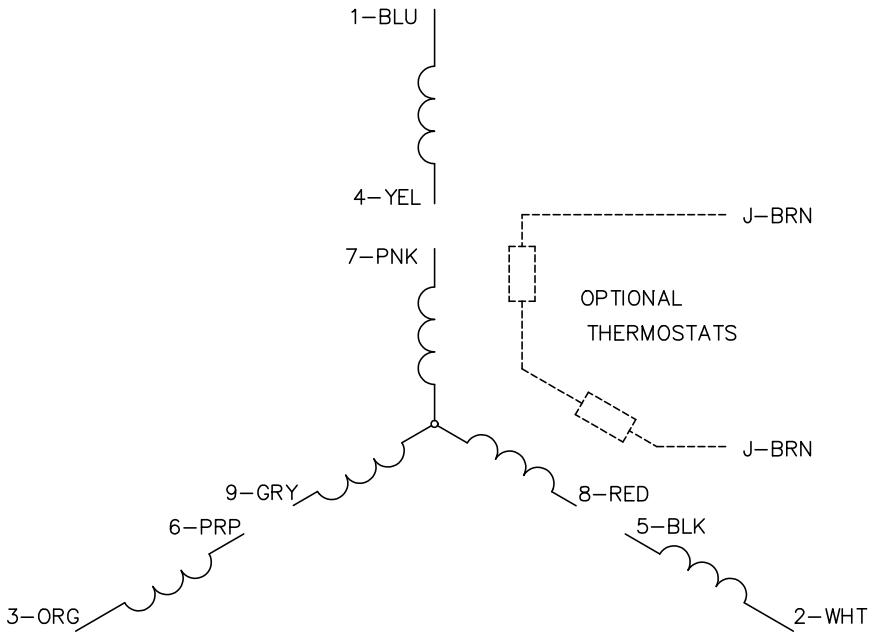
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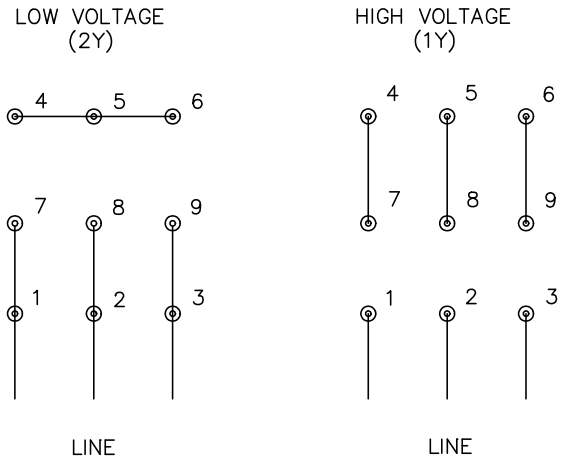
06WGX813

Record: 58281


06LYF551
614-643 = 17.22
8.21
2.78
2.63
.25
2.75
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EACH END)
PLUG (EA. SIDE)
NAMEPLATE
.25 KEY 1.75 LONG
8.86
Ø 1.1250 1.1245
Ø 8.500 8.497
8 HOLES Ø.41
4.50
4.50
3.51
5.50
6.50
11.83
7.09
4.73
2.04
45°
45°
9.23
4.50 4.44
LEAD HOLE Ø1.09
4 HOLES .50-13 TAP ON Ø7.25 B.C.
3.75
3.75
5.90
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: F
VERSION: 03
REVISED: 09:35:53 09/19/2019
TDR: 000001120280
MODEL NO. 06LYF551
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TENV INVERTER (THRU-SHAFT ENCODER)
06LYF551

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