

ABB BALDOR RELIANCE III

Customer information packet

IDNM3665T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0642M, GP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	GP
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CSA
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	5.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K

Part Detail

Revision	D
Type	AC
Mech. spec.	06F551
Base	
Status	PRD/A
Elec. spec.	06WGW570
Layout	06LYF551
Eff. date	06-05-2026
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	11-09-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.22 IN
Power Factor	80
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4615L									
CAT NO	IDNM3665T-5								
SPEC.	06F551W570G1						ENCL	TENV	
FRAME	184TC		HP	5					
VOLTS	575								
MAG CUR	2.8		FLA		5.2				
RPM	1750		RPM MAX		2700				
HZ	60	PH	3	CLASS		F			
SER.F.	1.00		SL HZ		1.7				
NEMA-NOM-EFF	90.2		WK2		0.39				
RATING	40C AMB-CONT								
DE BRG	6206	ODE BRG		6205					
CC	010A	SN							
	1.5:1 CHP PWM								
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA387674	SA 06F551W570G1	1.000 ea
RA378014	RA 06F551W570G1	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
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
LC0006	CONNECTION LABEL	1.000 ea

NP4615L	SS INV UL CSA PREM CC (W/OUT DESIGN FIEL	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

NP VOLTS	575					WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
NP AMPS	5.2	Base Volt	575	R1	1.870	X1 4.080
HP	5	NL AMPS	2.52	R2	1.550	X2 3.220
BASE SPEED	1752	Slip (HZ)	1.60			XM 116.000
PHASE/HZ	3/60	WK ² (lb-ft ²)	0.390			

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1752	5.0	15.0	575	60	5.2
Max Speed	2629	5.0	10.0	575	90	4.8
CT Min Speed	1.752	0.005	15.0	0.58	0.06	5.2

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	2.5
1/4	1787	1.3	3.7	575	60	2.8
1/2	1776	2.5	7.5	575	60	3.3
3/4	1765	3.8	11.3	575	60	4.2
Full Load	1752	5.0	15.0	575	60	5.2
O/L	1708	10.0	30.8	575	60	9.7

Blower Data

	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data

BALDOR • RELIANCE

DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 11/1/2024
**A-C MOTOR
PERFORMANCE
CURVES**
06WGW570

Record: 526

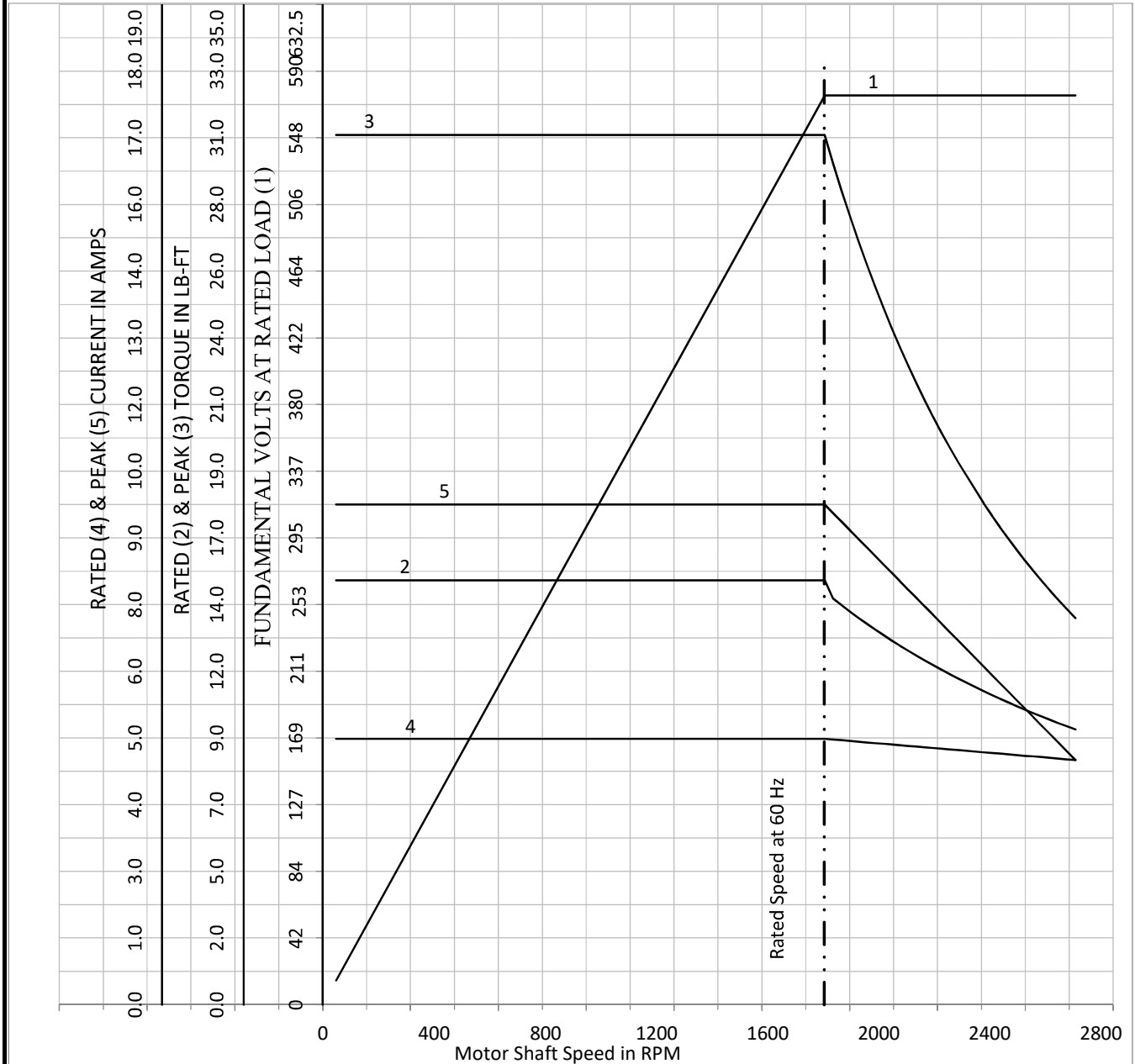
NP VOLTS 575
NP AMPS 5.2
HP 5
BASE SPEED 1752
PHASE/HZ 3/60

Base Volt 575
NL AMPS 2.52
Slip (HZ) 1.60
WK² (lb-ft²) 0.390

WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)

R1	1.870	X1	4.080
R2	1.550	X2	3.220
		XM	116.000

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

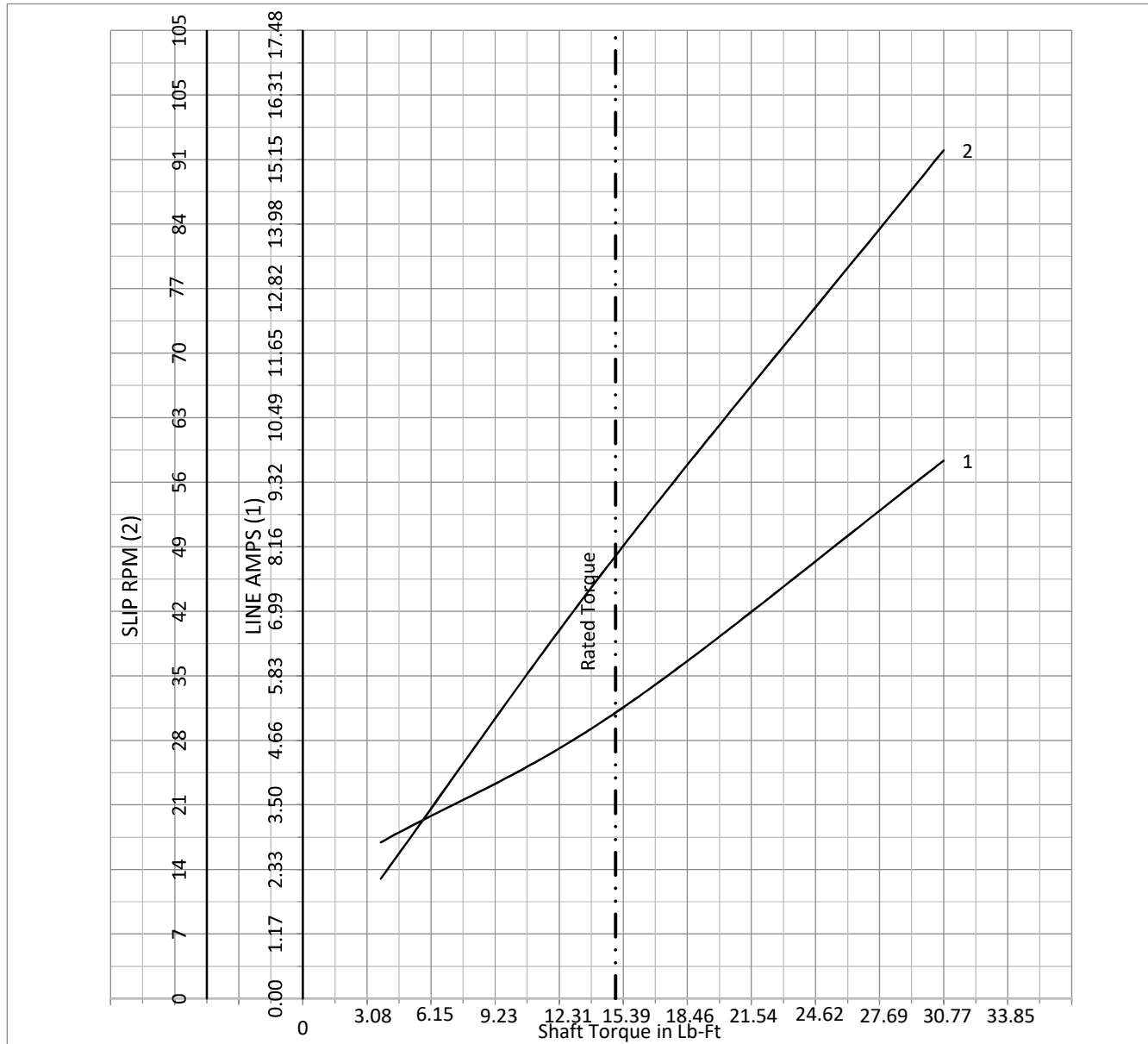
BALDOR • RELIANCE

DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 11/1/2024
**A-C MOTOR
PERFORMANCE
CURVES**
06WGW570

Record: 526

NP VOLTS	575	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	5.2	Base Volt	575	R1	1.870	X1	4.080
HP	5	NL AMPS	2.52	R2	1.550	X2	3.220
BASE SPEED	1752	Slip (HZ)	1.60			XM	116.000
PHASE/HZ	3/60	WK2 (lb-ft2)	0.390				

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE

DR BY USBRRAN1

CK BY CD

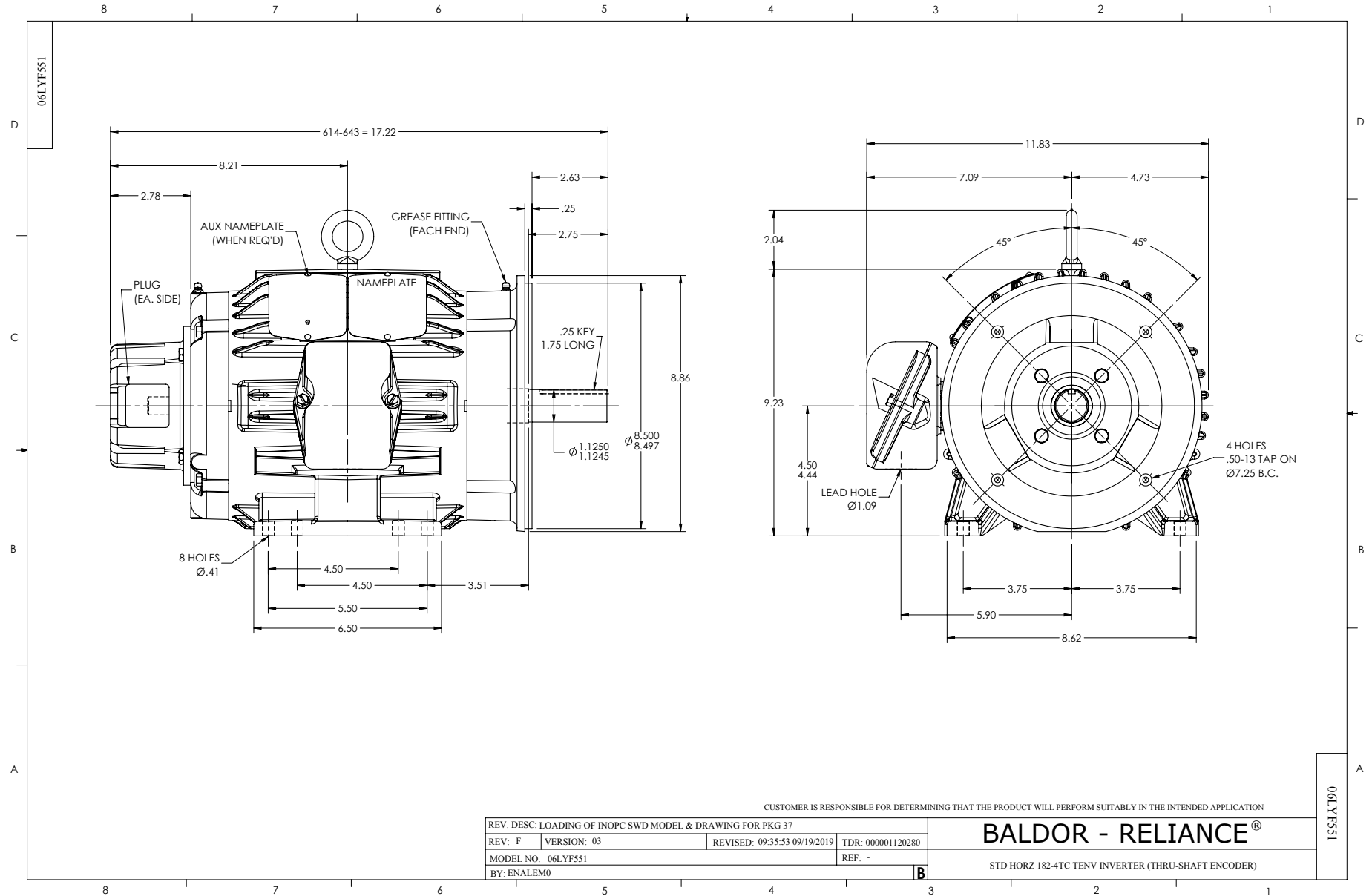
APP BY USBRRAN1

DATE 11/1/2024

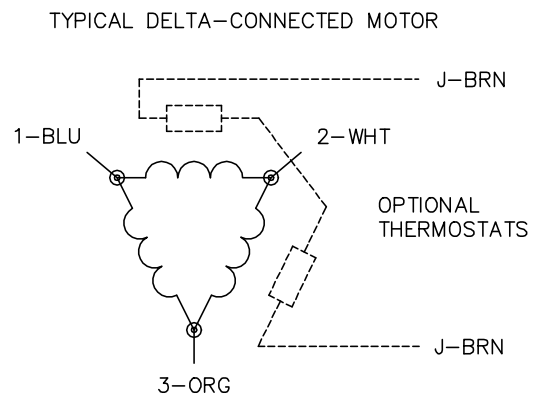
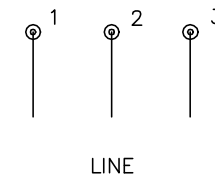
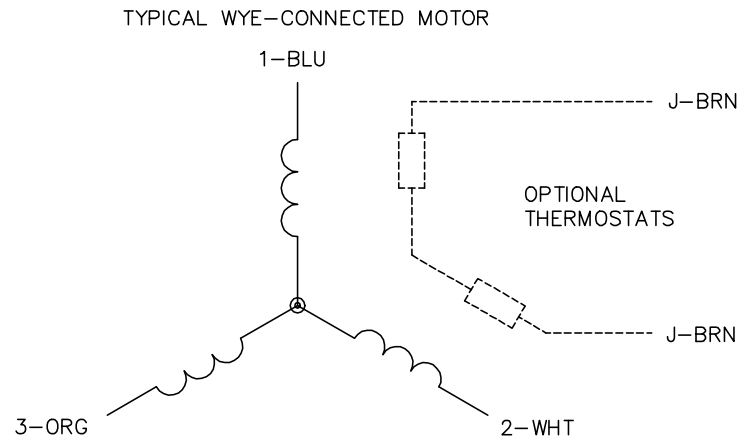
**A-C MOTOR
PERFORMANCE
CURVES**

06WGW570

Record: 526



CD0006



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

SH 1 of 1