ABB BALDOR RELIANCE

Customer information packet

IDNM3665T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0642M, GP, F1, N
Class - None
Division - Not Applicable

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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	E
Type	AC
Mech. spec.	06F551
Base	
Status	PRD/A
Elec. spec.	06WGW570
Layout	06LYF551
Eff. date	10-08-2026
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						

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

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CK BY CD
APP BY USBRRAN1
DATE 11/1/2024

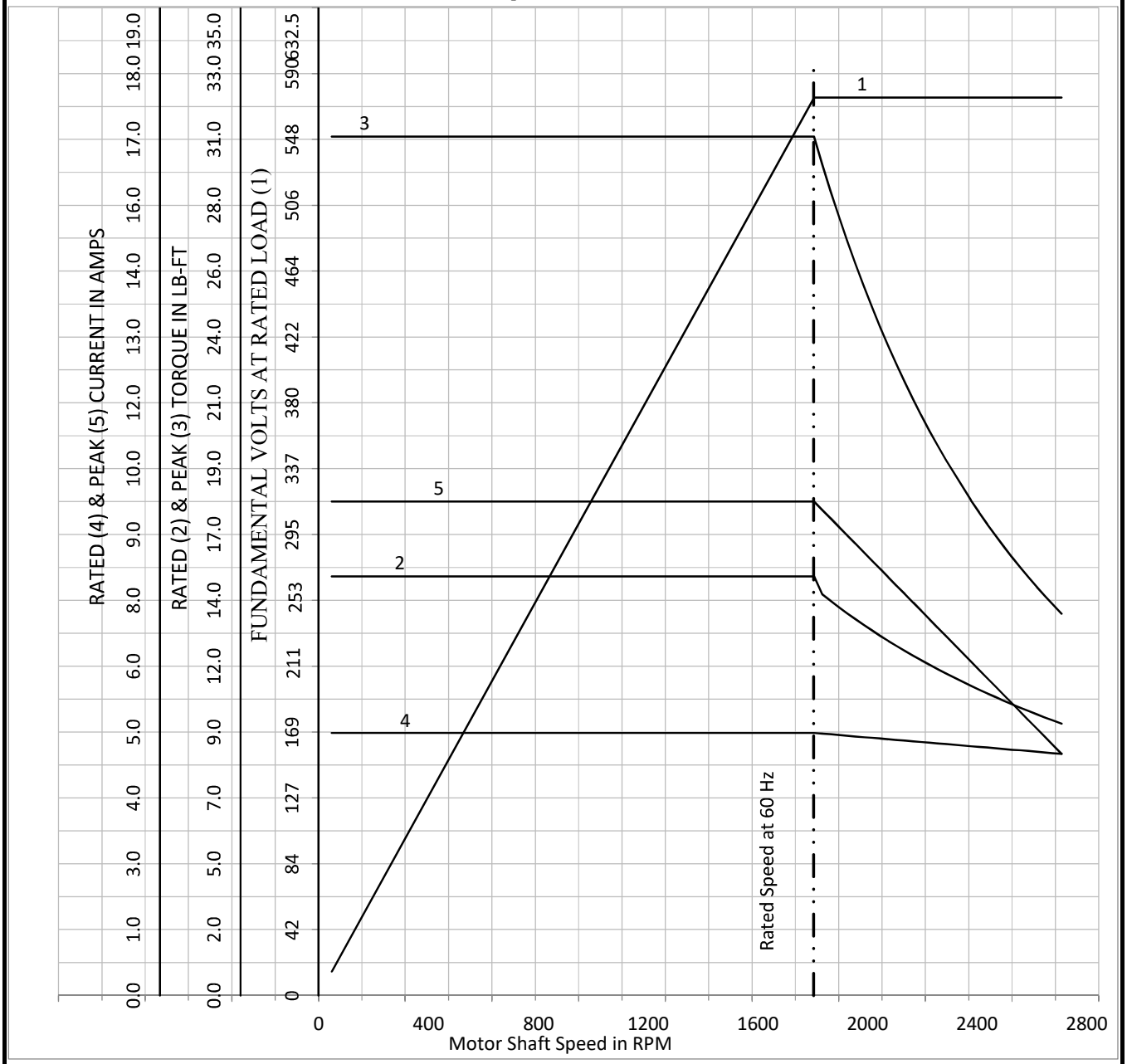
A-C MOTOR PERFORMANCE CURVES

06WGW570

Record: 526

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

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

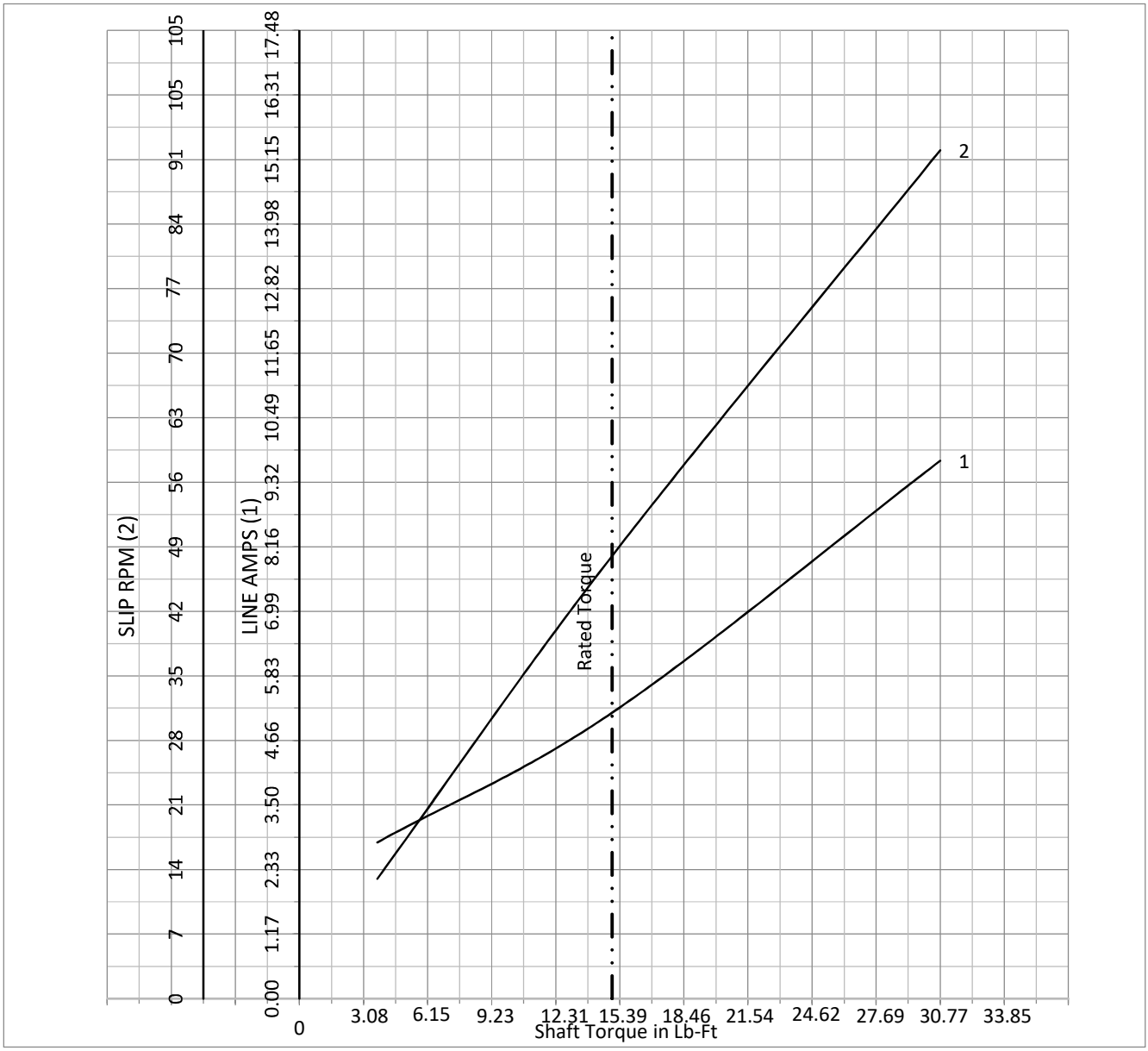
06WGW570

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 Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

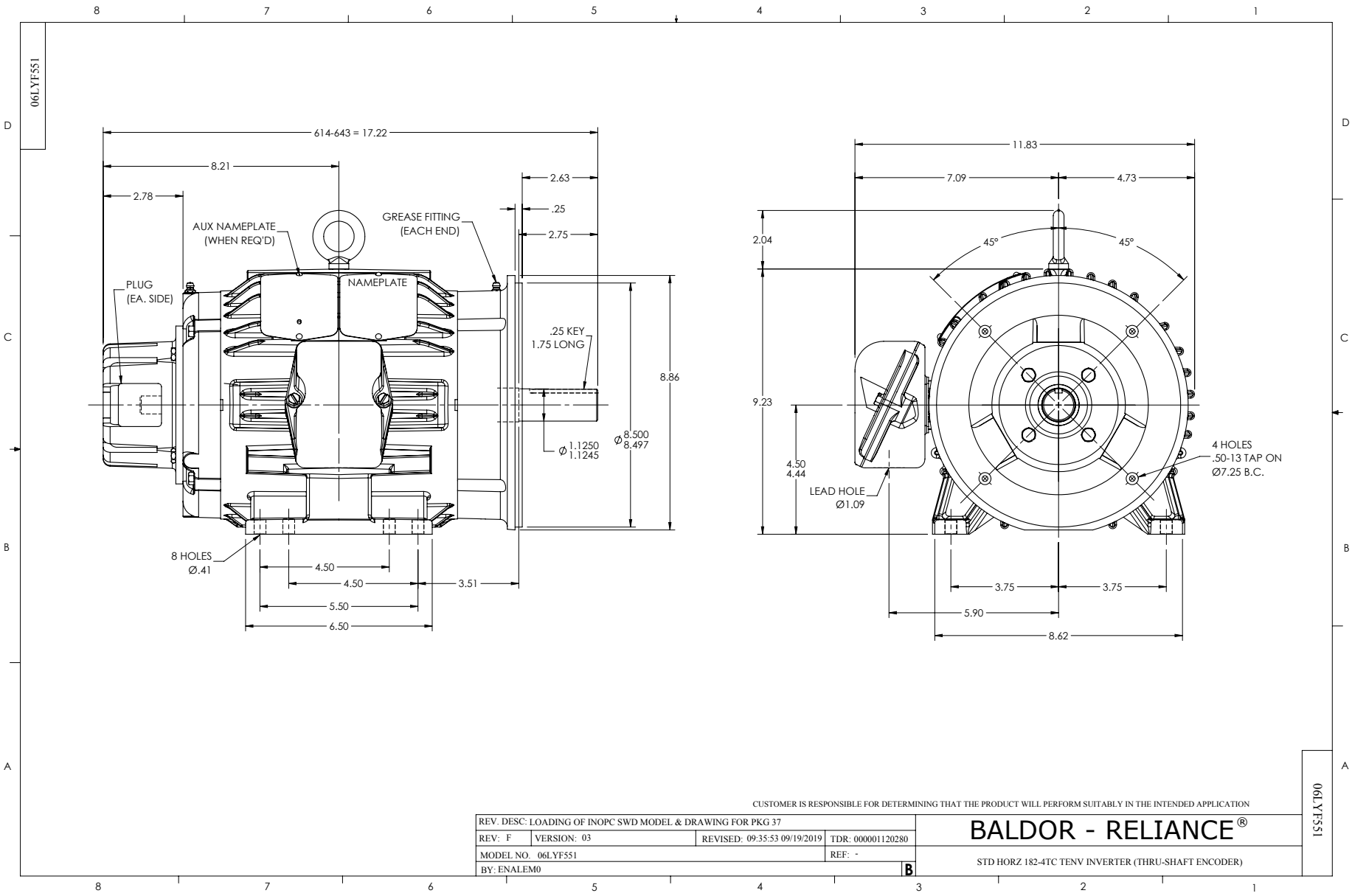
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DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 11/1/2024

A-C MOTOR PERFORMANCE CURVES

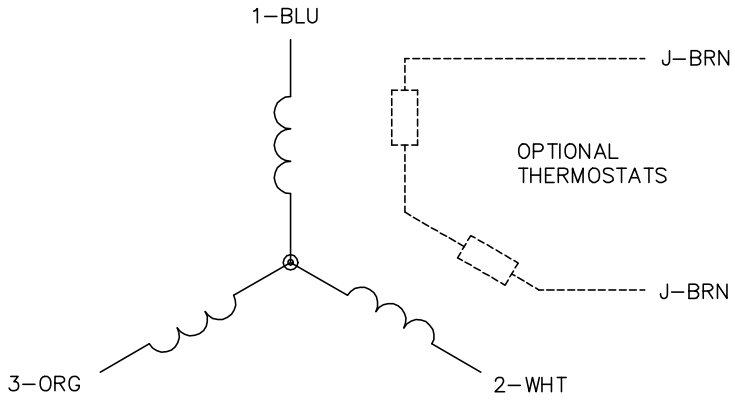
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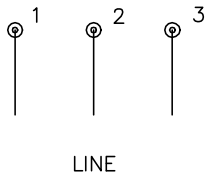
Record: 526


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

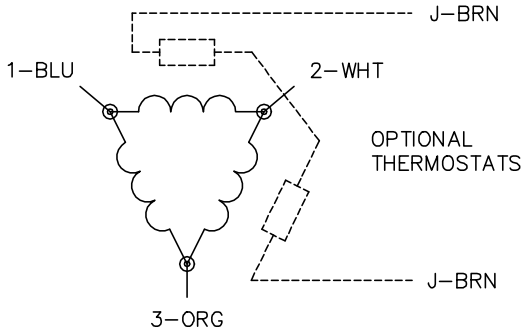
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1