ABB BALDOR RELIANCE

Customer information packet

IDNM3584T

1.5HP, 1770RPM, 3PH, 60HZ, 143TC, 0530M, TENV
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	145TC
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	4.600 A @ 230.0 V
	2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	H

Part Detail

Revision	E
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX543
Layout	05LYE534
Eff. date	08-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	IDNM3584T								
SPEC.	05E534X543G1								
FRAME	145TC		**H.P.**	1.5					
VOLTS	230/460								
MAG. CUR.	2.58/1.29			**F.L. AMPS**	4.6/2.3				
R.P.M.	1770			**R.P.M. MAX**	6000				
HZ.	60	**PH.**	3	**CLASS**	H				
SER.F.	1.00	**DES.**	B	**SL HZ**	1.03				
NEMA NOM. EFF.	86.5	**WK2**	0.217						
BLOWER		**V**		**PH**		**HZ**		**AMPS**	
RATING	40C AMB-CONT			**ENCL**	TENV				
DE	6205	**ODE**	6203						
CC	010A	**SN**							
	1000:1 CT/VT								

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	4.2/2.1	Base Volt	460	R1	5.320	X1	7.810
HP	1.5	NL AMPS	1.29	R2	2.080	X2	5.860
BASE SPEED	1769	Slip (HZ)	1.03			XM	197.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.217				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1769	1.5	4.5	460	60	2.1
Max Speed	2653	1.5	3.0	460	90	1.9
CT Min Speed	1.769	0.002	4.5	0.46	0.06	2.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1798	0.0	0.0	460	60	1.3
1/4	1790	0.4	1.1	460	60	1.4
1/2	1783	0.8	2.3	460	60	1.5
3/4	1776	1.1	3.3	460	60	1.8
Full Load	1769	1.5	4.5	460	60	2.1
O/L	1740	3.0	9.1	460	60	3.7

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 12/19/2023

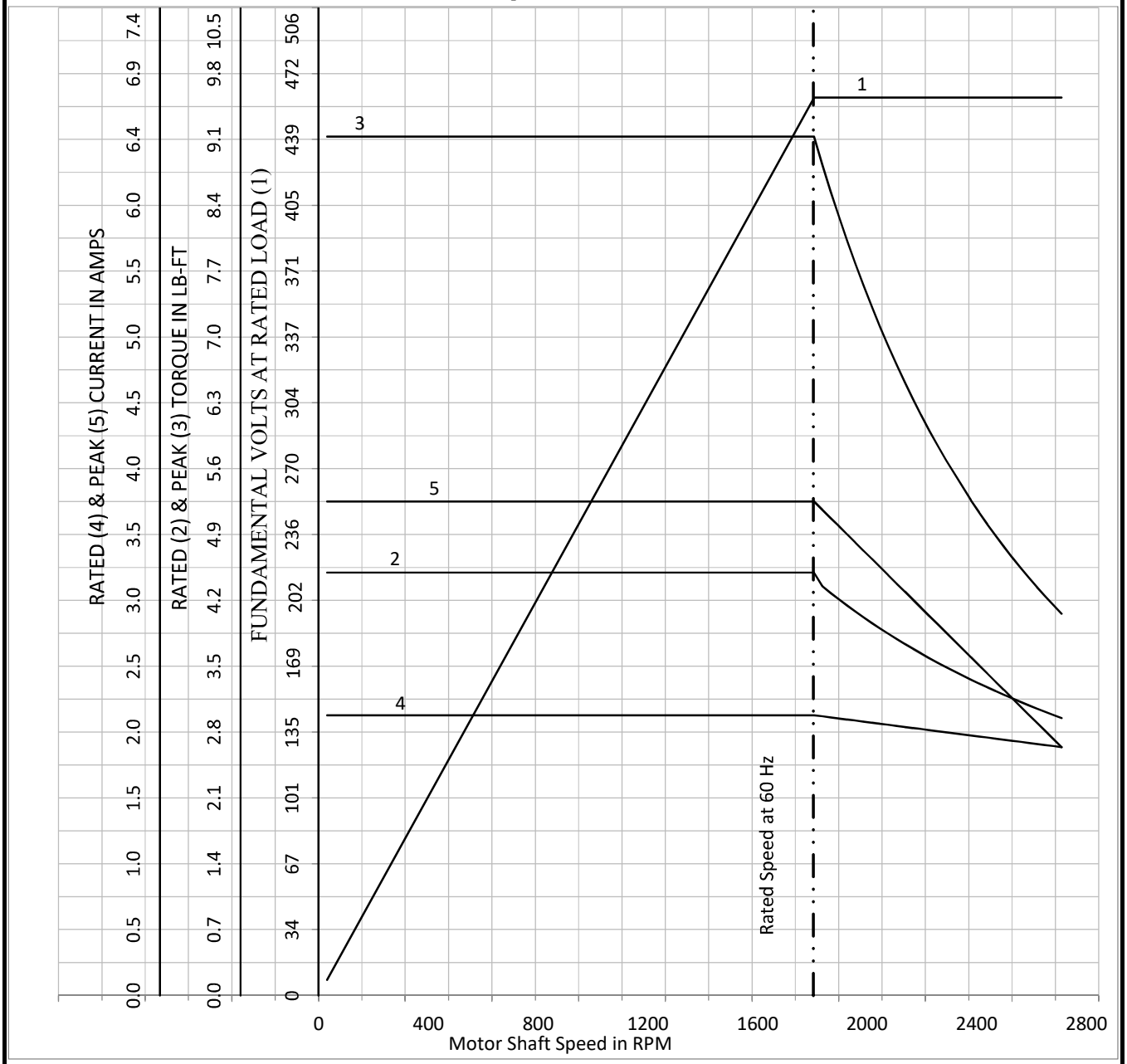
A-C MOTOR PERFORMANCE CURVES

05WGX543

Record: 82095

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	4.2/2.1	Base Volt	460	R1	5.320	X1	7.810
HP	1.5	NL AMPS	1.29	R2	2.080	X2	5.860
BASE SPEED	1769	Slip (HZ)	1.03			XM	197.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.217				

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

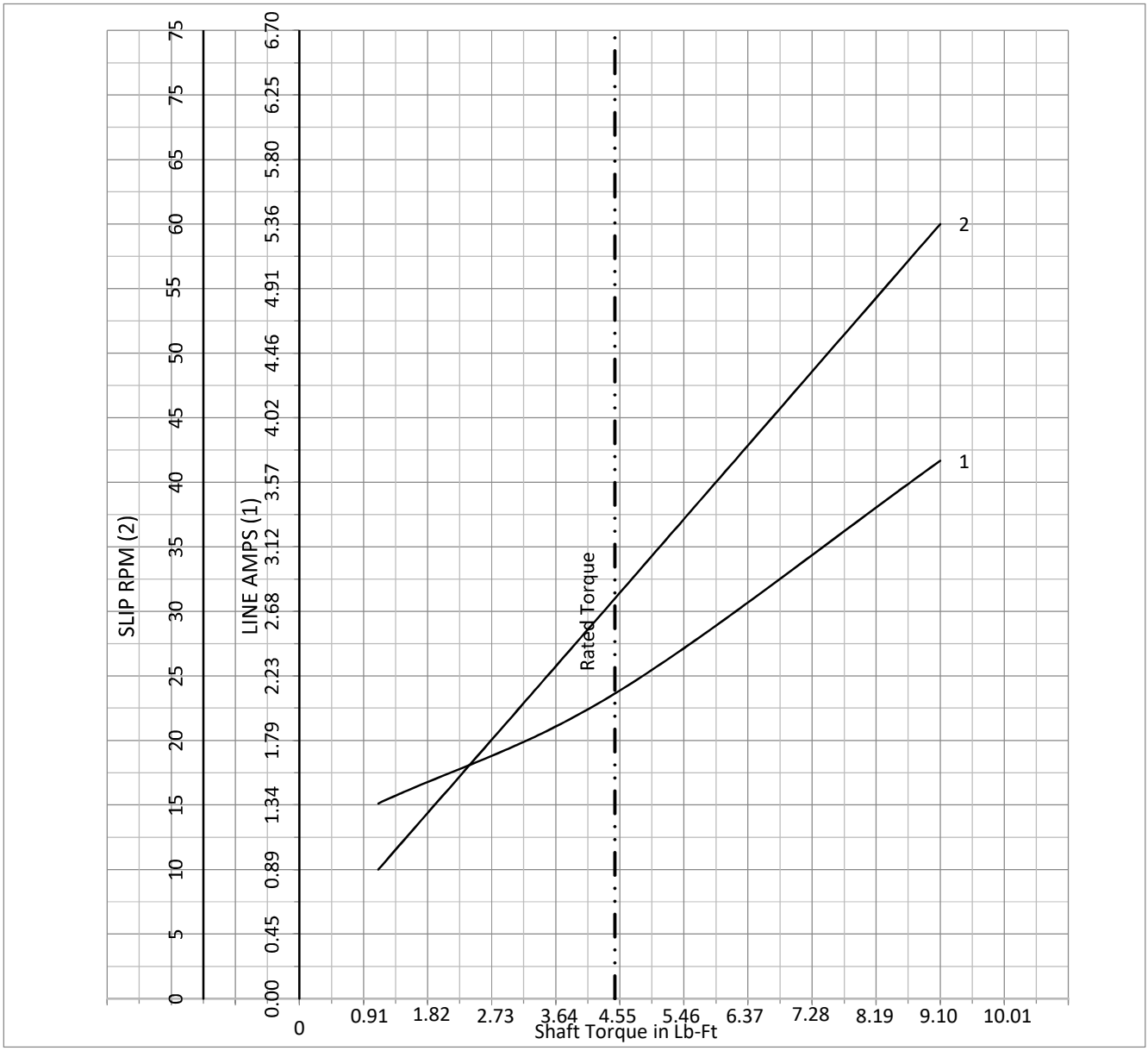
05WGX543

Record: 82095

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	4.2/2.1	Base Volt	460	R1	5.320	X1	7.810
HP	1.5	NL AMPS	1.29	R2	2.080	X2	5.860
BASE SPEED	1769	Slip (HZ)	1.03			XM	197.000
PHASE/HZ	3/60	WK2 (lb-ft2)	0.217				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

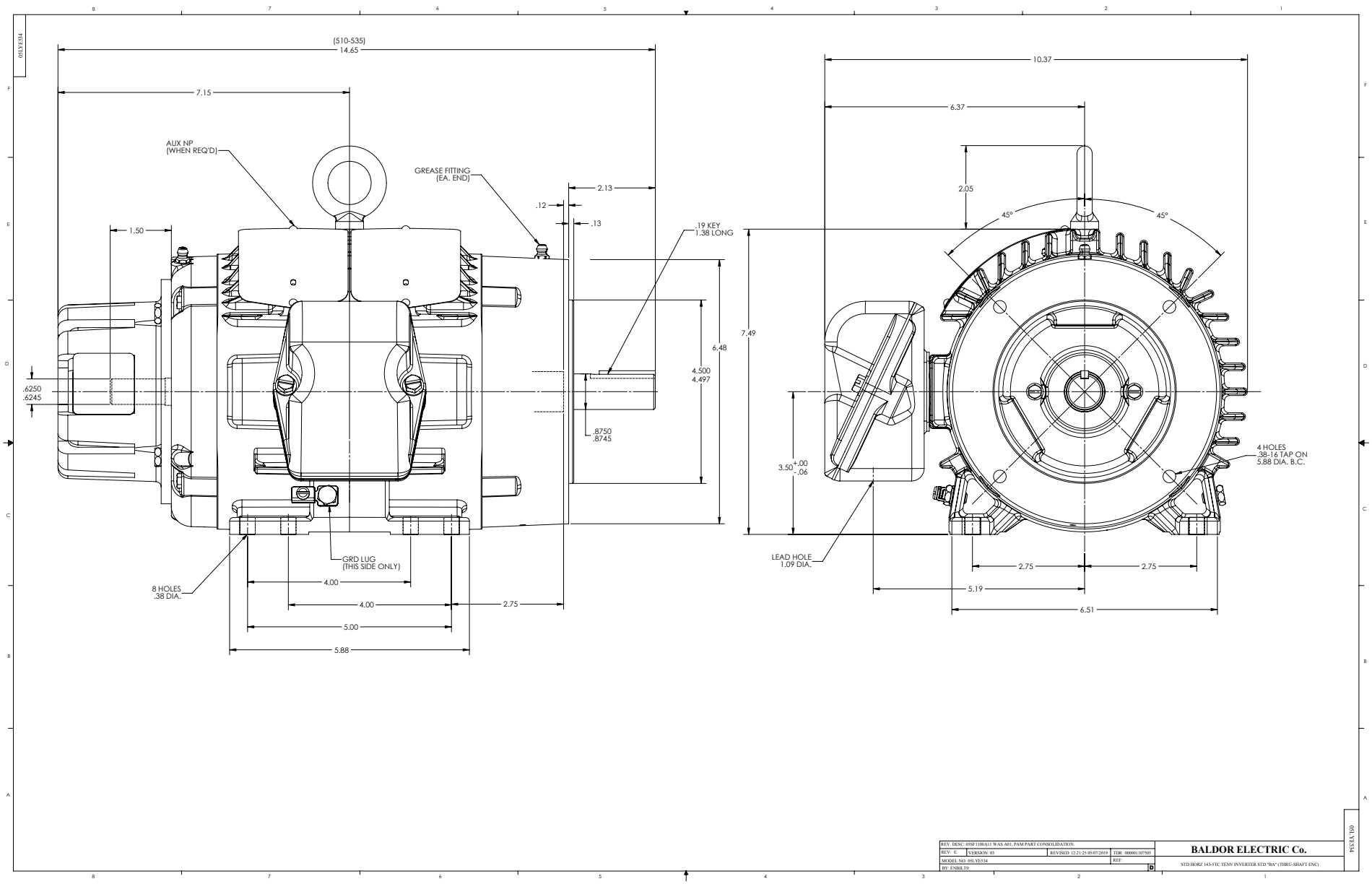
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APP BY USBRRAN1
DATE 12/19/2023

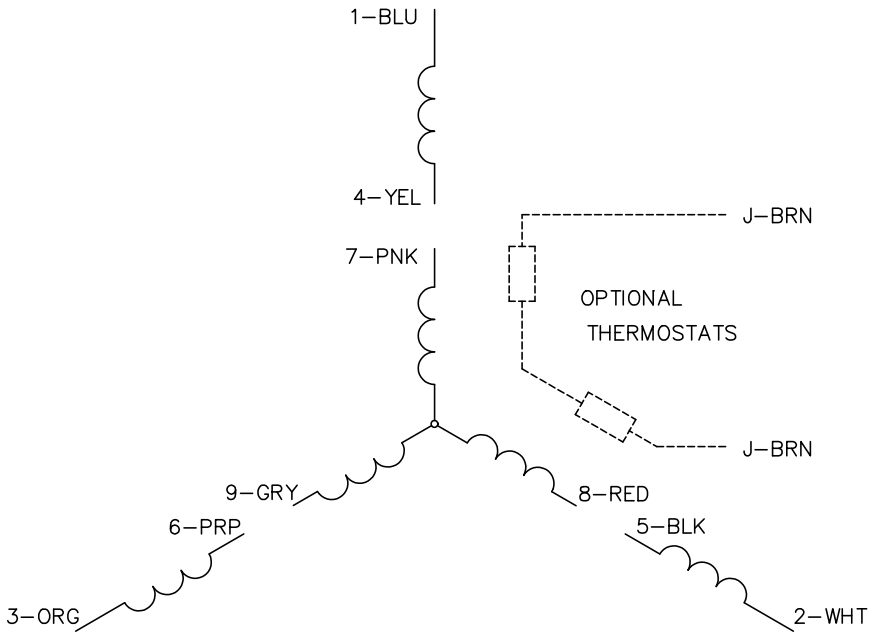
A-C MOTOR PERFORMANCE CURVES

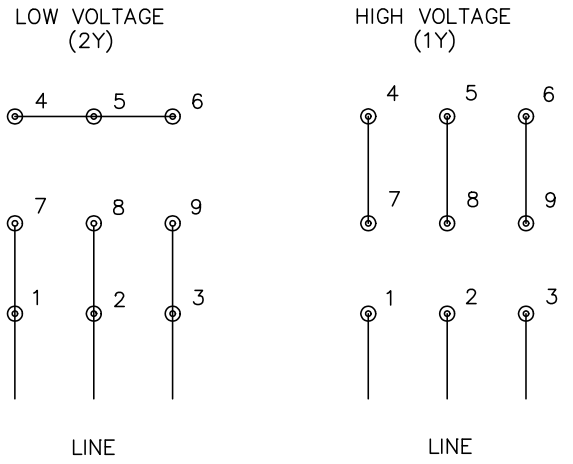
05WGX543

Record: 82095


(510-535)
14.65
7.15
AUX NP
(WHEN REQ'D)
GREASE FITTING
(EA. END)
2.13
.12
.13
.19 KEY
1.38 LONG
1.50
6.48
4.500
4.497
.6250
.6245
.8750
.8745
GRD LUG
(THIS SIDE ONLY)
8 HOLES
.38 DIA.
4.00
4.00
2.75
5.00
5.88
10.37
6.37
2.05
45°
45°
7.49
3.50 +.00 -.06
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
1.09 DIA.
2.75
2.75
5.19
6.51
BALDOR ELECTRIC Co.
STD HORZ 143-5TC TENV INVERTER STD "BA" (THRU-SHAFT ENC)
05LYE534

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