ABB BALDOR RELIANCE

Customer information packet

ZDNM3767T

5HP, 1765RPM, 3PH, 60HZ, 213TC, 0740M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	213TC
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	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	6.200 A @ 460.0 V
	12.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.2 a
Insulation Class	H

Part Detail

Revision	E
Type	AC
Mech. spec.	07J134
Base	
Status	PRD/A
Elec. spec.	07WGY566
Layout	07LYJ134
Eff. date	09-02-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-19-2020

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.40 IN
Power Factor	83
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP4539L							
CAT.NO.	ZDNM3767T						
SPEC.	07J134Y566Z1						
FRAME	213TC		**H.P.**	5 TE			
VOLTS	230/460						
MAG. CUR.	5/2.5				**F.L. AMPS**	12.4/6.2	
R.P.M.	1765		**R.P.M. MAX**	6000			
HZ.	60	**PH.**	3	**CLASS**	H		
SER.F.	1.00	**DES.**	B	**SL HZ**	1.2		
NEMA NOM. EFF.	89.5	**WK2**	0.98				
BLWR V		**PH**		**HZ**		**AMPS**	
RATING	40C AMB-CONT						
DE	6307	**ODE**	6206				
CC	010A	**SN**					
	1000:1 CT/VT						

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	12.4/6.2	Base Volt	460	R1	1.200	X1	4.150
HP	5	NL AMPS	2.46	R2	0.716	X2	3.240
BASE SPEED	1764	Slip (HZ)	1.20			XM	105.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.984				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1764	4.9	14.7	460	60	6.2
Max Speed	2645	4.9	9.8	460	90	5.9
CT Min Speed	1.764	0.005	14.7	0.46	0.06	6.2

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	2.5
1/4	1792	1.2	3.6	460	60	2.8
1/2	1783	2.5	7.2	460	60	3.7
3/4	1774	3.7	11.0	460	60	4.9
Full Load	1764	4.9	14.7	460	60	6.2
O/L	1727	9.9	30.0	460	60	12.5

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 11/5/2024

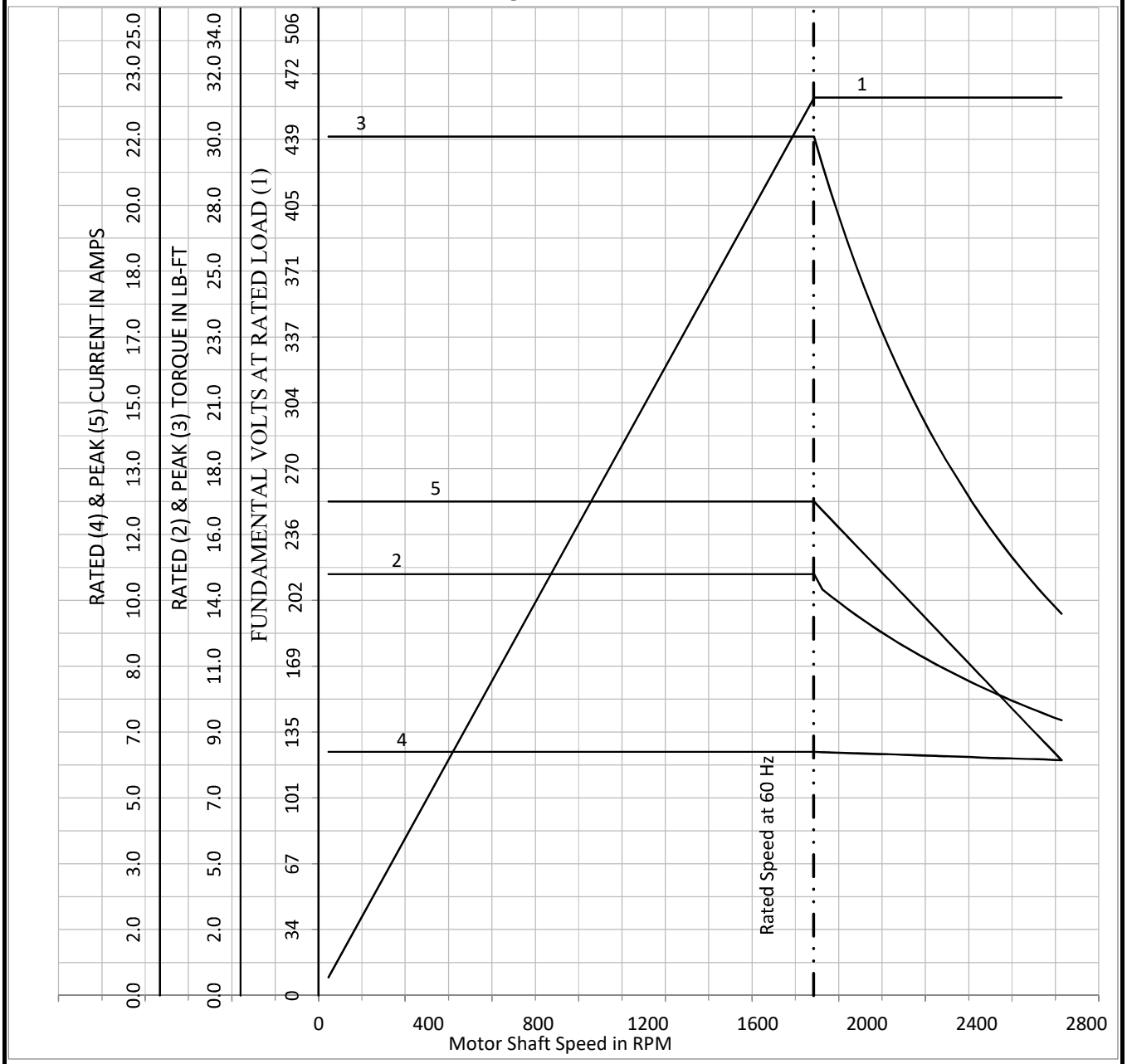
A-C MOTOR PERFORMANCE CURVES

07WGY566

Record: 62111

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460			R1	1.200	X1	4.150
NP AMPS	12.4/6.2	Base Volt	460	R2	0.716	X2	3.240
HP	5	NL AMPS	2.46			XM	105.000
BASE SPEED	1764	Slip (HZ)	1.20				
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.984				

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

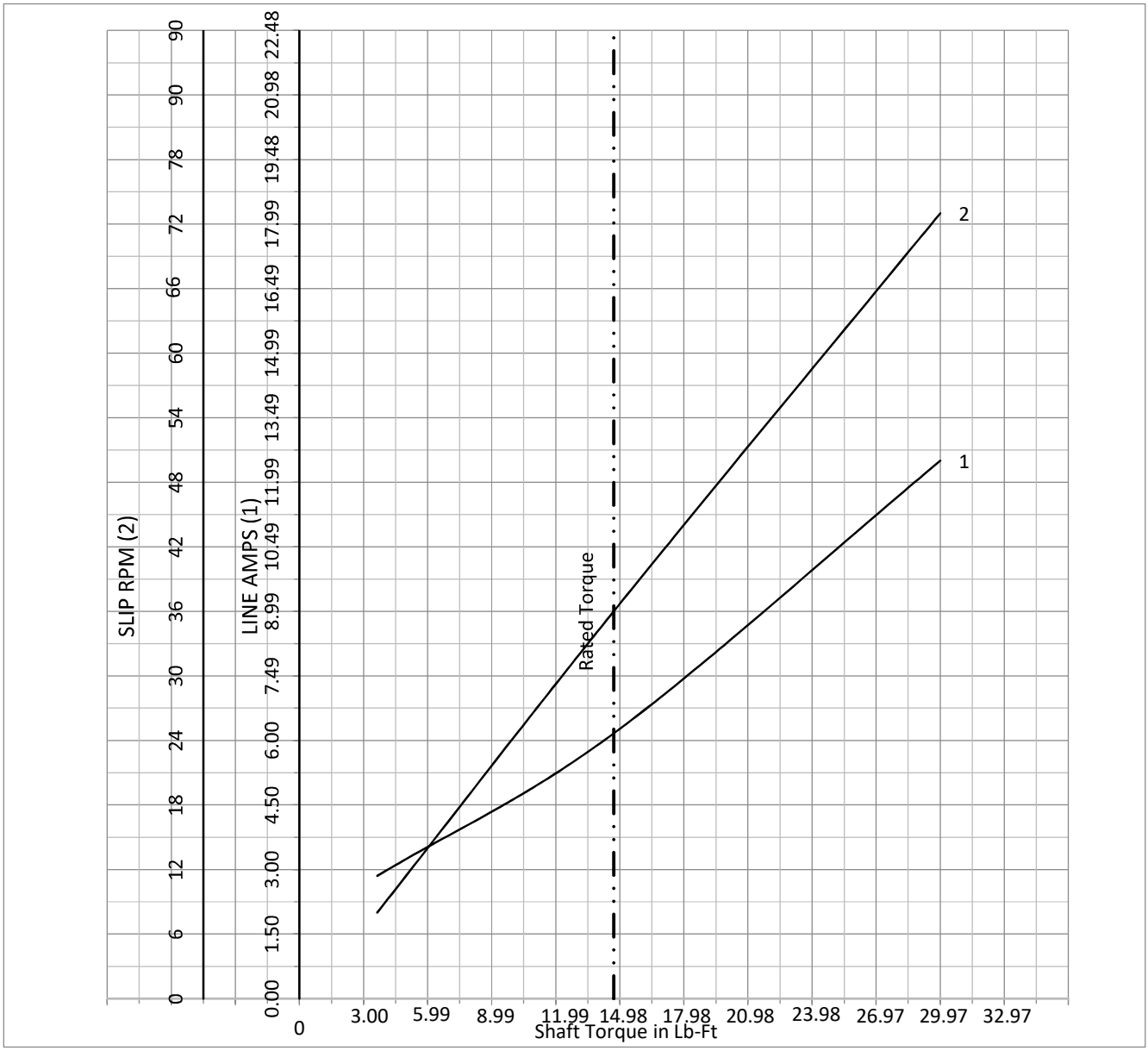
07WGY566

Record: 62111

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	12.4/6.2	Base Volt	460	R1	1.200	X1	4.150
HP	5	NL AMPS	2.46	R2	0.716	X2	3.240
BASE SPEED	1764	Slip (HZ)	1.20			XM	105.000
PHASE/HZ	3/60	WK2 (lb-ft2)	0.984				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

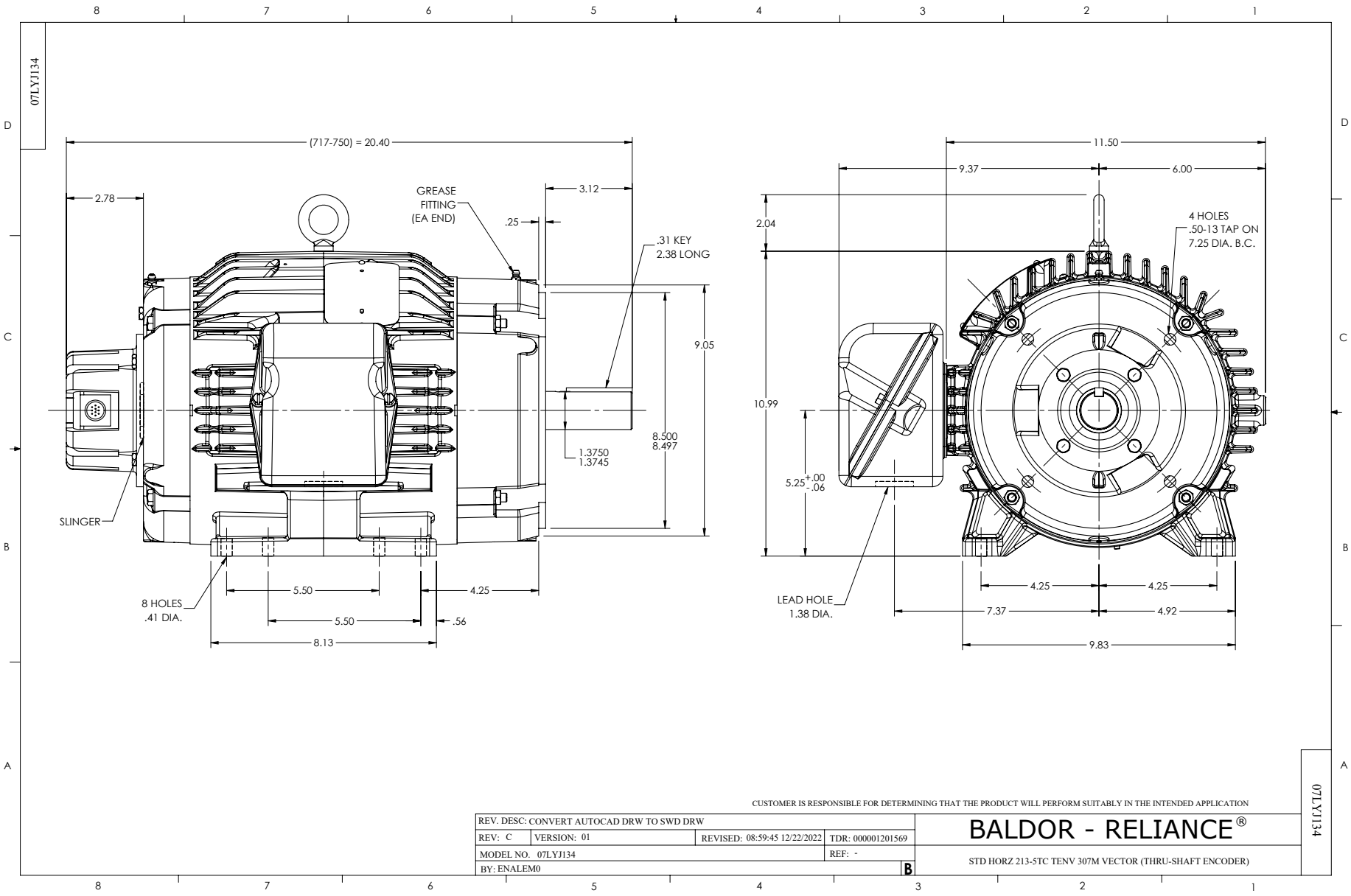
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APP BY USBRRAN1
DATE 11/5/2024

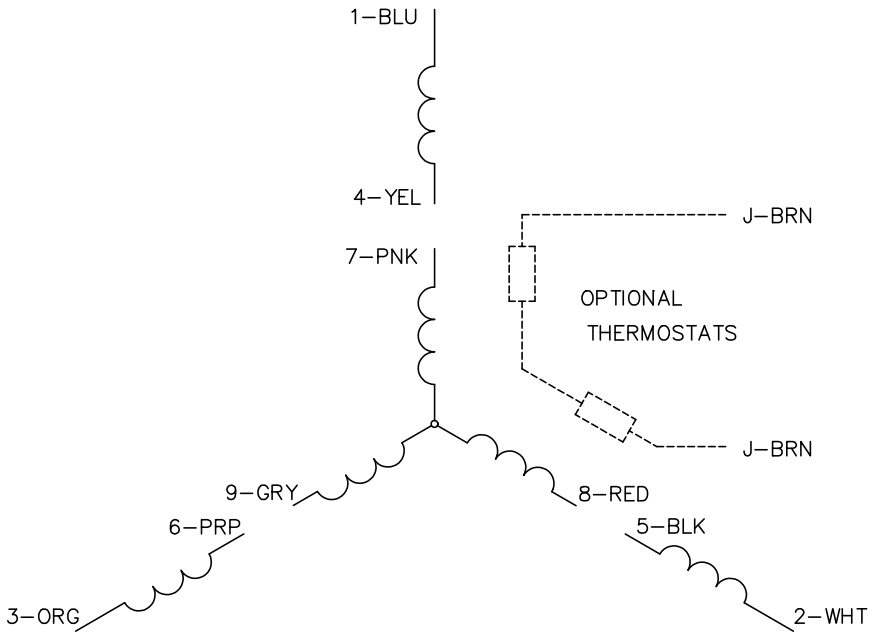
A-C MOTOR PERFORMANCE CURVES

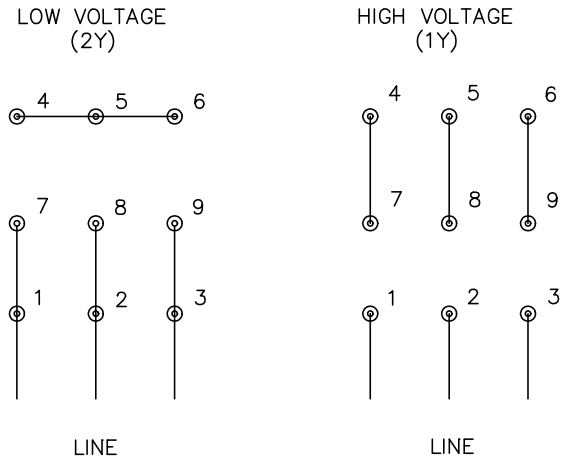
07WGY566

Record: 62111


07LYJ134
(717-750) = 20.40
2.78
GREASE FITTING (EA END)
.25
3.12
.31 KEY 2.38 LONG
9.05
8.500 8.497
1.3750 1.3745
SLINGER
8 HOLES .41 DIA.
5.50
4.25
5.50
.56
8.13
11.50
9.37
6.00
2.04
4 HOLES .50-13 TAP ON 7.25 DIA. B.C.
10.99
5.25 +.00 -.06
LEAD HOLE 1.38 DIA.
4.25
4.25
7.37
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 01
REVISED: 08:59:45 12/22/2022
TDR: 000001201569
MODEL NO. 07LYJ134
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TENV 307M VECTOR (THRU-SHAFT ENCODER)
07LYJ134

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