ABB BALDOR RELIANCE

Customer information packet

ZDVSM3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 0738M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	7.500 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	19.000 A @ 230.0 V
	20.000 A @ 208.0 V
	9.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a

Part Detail

Revision	A
Type	AC
Mech. spec.	07M292
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYM292
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-28-2021

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.59 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4357L					
CAT NO	ZDVSM3770T				
SPEC.	07M292T510Z1				
FRAME	213TC	**HP**	7.5 TE		
VOLTS	230/460				
MAG CUR	8.6/4.3		**FLA**	19/9.5	
RPM	1770	**RPM MAX**	4000		
HZ	60	**PH**	3	**CLASS**	F
SER.F.	1.00	**SL HZ**	1		
NEMA-NOM-EFF	91.7	**WK2**	0.934		
RATING	40C AMB-CONT				
DE BRG	6307	**ODE BRG**	6206		
CC	010A	**SN**			
	1.5:1 CHP PWM				
	1000:1 CT/VT				

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	19/9.5	Base Volt	460	R1	0.784	X1	2.650
HP	7.5	NL AMPS	4.07	R2	0.464	X2	2.040
BASE SPEED	1769	Slip (HZ)	1.03			XM	62.900
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.934				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1769	7.5	22.3	460	60	9.4
Max Speed	2653	7.5	14.9	460	90	8.9
CT Min Speed	1.769	0.008	22.3	0.46	0.06	9.4

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	4.1
1/4	1792	1.9	5.5	460	60	4.6
1/2	1785	3.7	11.0	460	60	5.8
3/4	1777	5.6	16.6	460	60	7.5
Full Load	1769	7.5	22.3	460	60	9.4
O/L	1734	15.0	45.4	460	60	18.7

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

Remarks: Calculated Data

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DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 3/21/2025

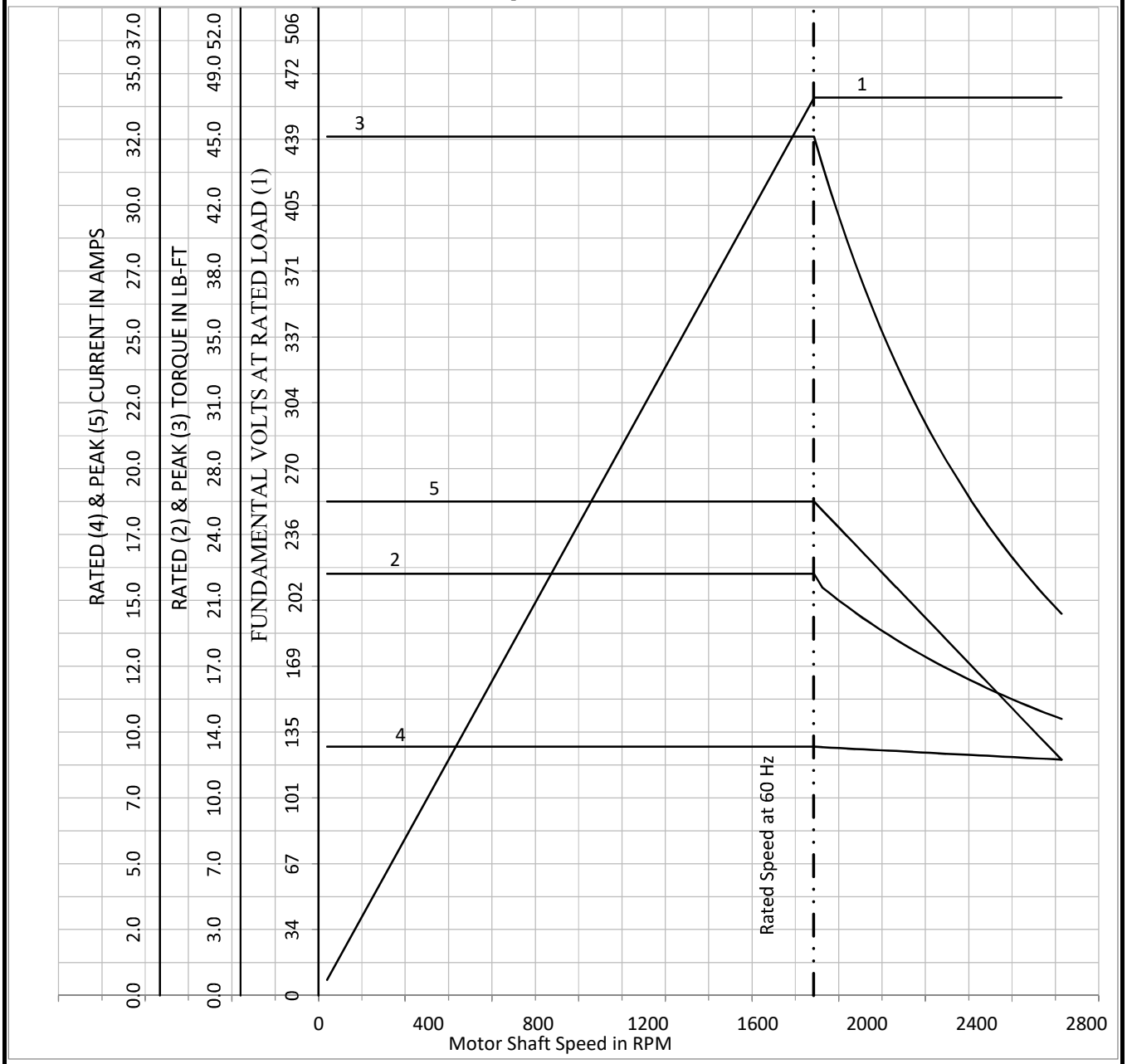
A-C MOTOR PERFORMANCE CURVES

07WGT510

Record: 86626

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460			R1	0.784	X1	2.650
NP AMPS	19/9.5	Base Volt	460	R2	0.464	X2	2.040
HP	7.5	NL AMPS	4.07			XM	62.900
BASE SPEED	1769	Slip (HZ)	1.03				
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.934				

Variable 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 3/21/2025

A-C MOTOR PERFORMANCE CURVES

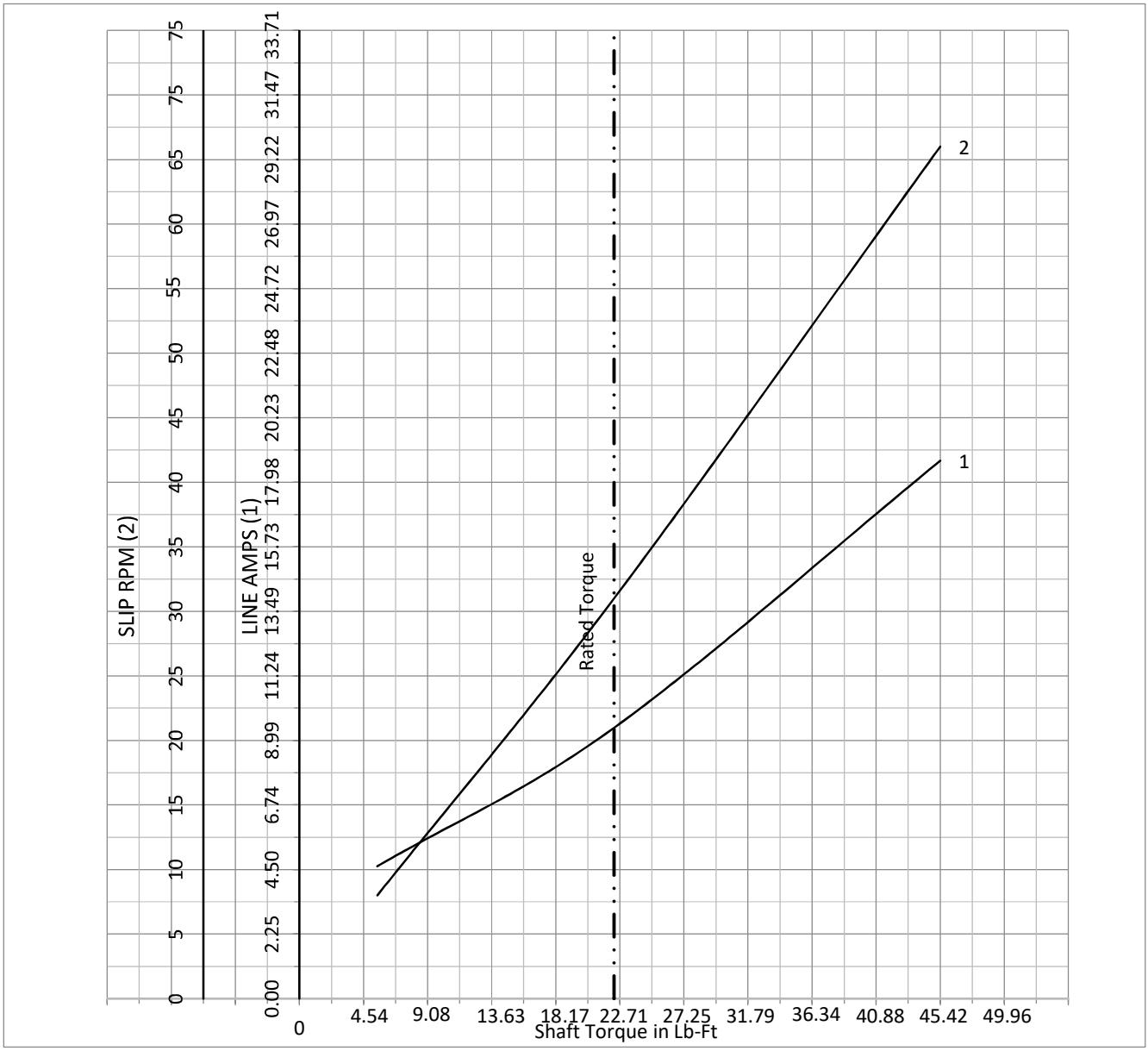
07WGT510

Record: 86626

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	19/9.5	Base Volt	460	R1	0.784	X1	2.650
HP	7.5	NL AMPS	4.07	R2	0.464	X2	2.040
BASE SPEED	1769	Slip (HZ)	1.03			XM	62.900
PHASE/HZ	3/60	WK2 (lb-ft2)	0.934				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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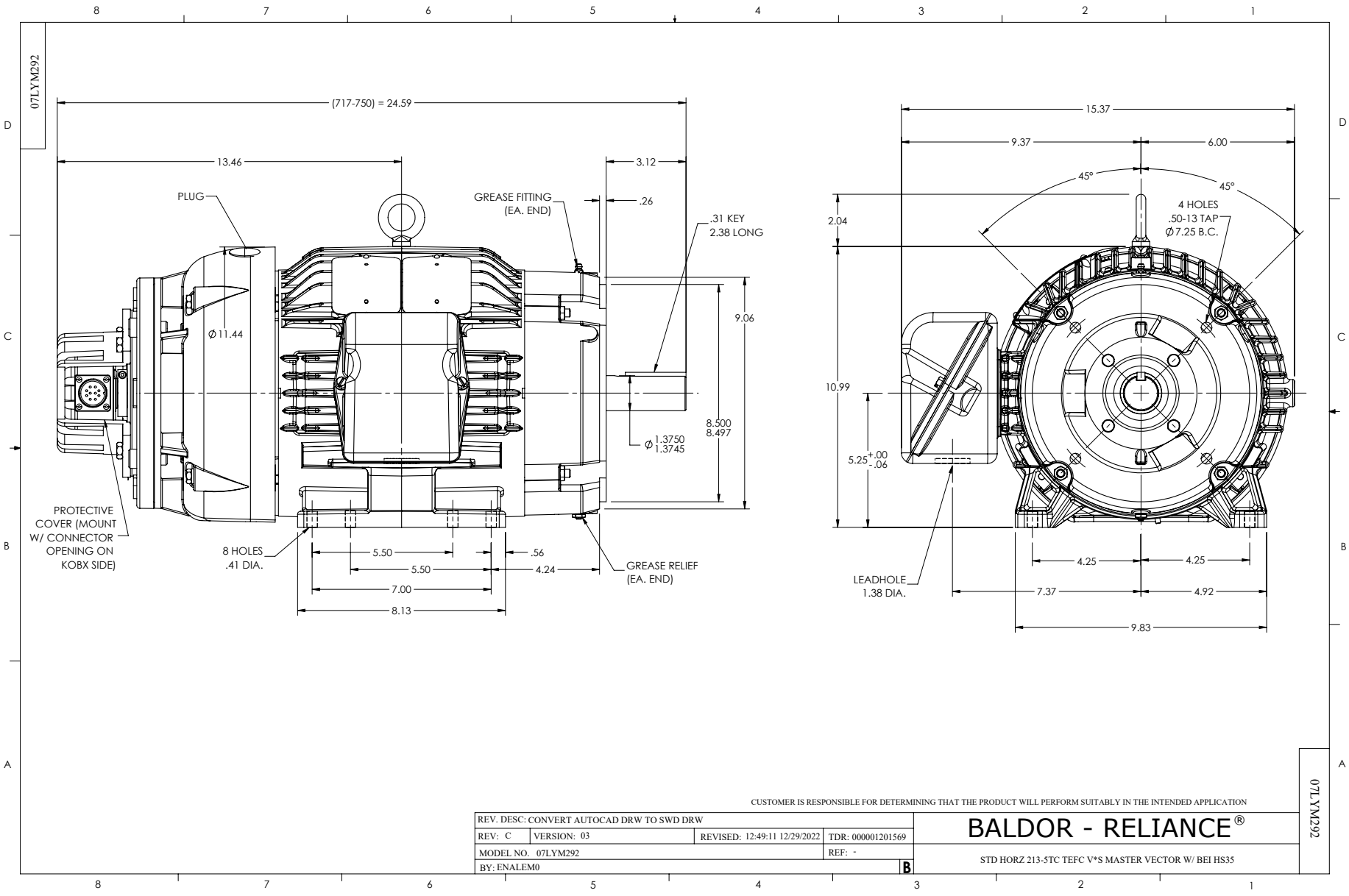
DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 3/21/2025

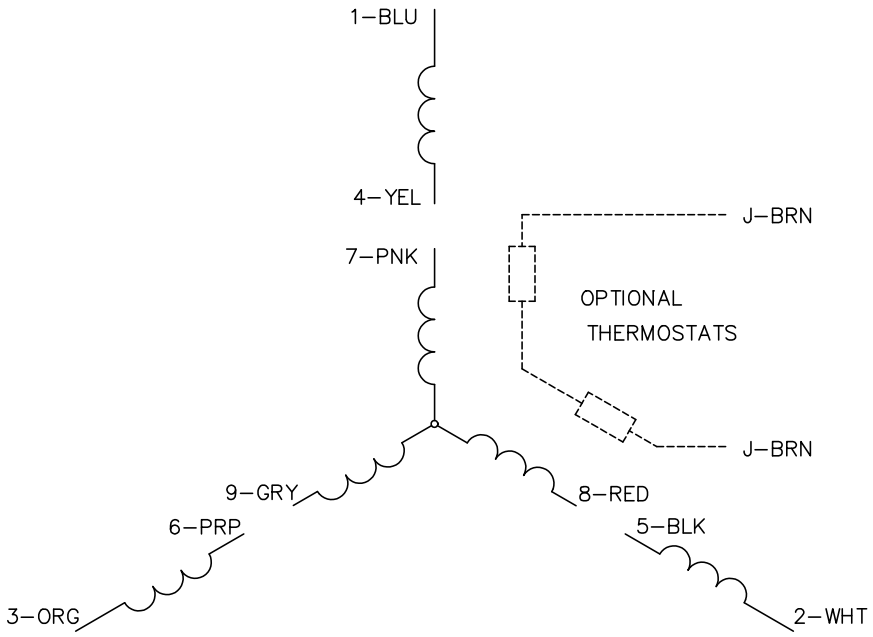
A-C MOTOR PERFORMANCE CURVES

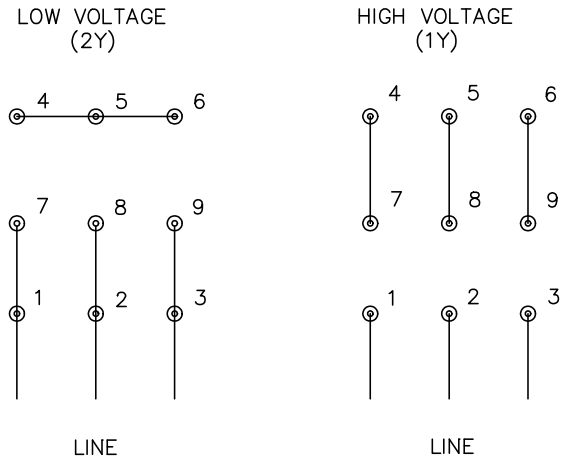
07WGT510

Record: 86626


07LYM292
(717-750) = 24.59
13.46
3.12
PLUG
GREASE FITTING (EA. END)
.26
.31 KEY
2.38 LONG
Ø11.44
9.06
8.500
8.497
Ø1.3750
1.3745
PROTECTIVE COVER (MOUNT W/ CONNECTOR OPENING ON KOBX SIDE)
8 HOLES .41 DIA.
5.50
5.50
7.00
8.13
.56
4.24
GREASE RELIEF (EA. END)
15.37
9.37
6.00
45°
45°
4 HOLES .50-13 TAP Ø7.25 B.C.
2.04
10.99
5.25 +.00 -.06
LEADHOLE 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: 03
REVISED: 12:49:11 12/29/2022
TDR: 000001201569
MODEL NO. 07LYM292
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC V*S MASTER VECTOR W/ BEI HS35
07LYM292

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