

ABB BALDOR RELIANCE III

Customer information packet

IDM4117T

64M 6P TEBC HOR 326T INV DUTY T'STATS

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	326T
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 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	BLOWER
Current @ Voltage	39.000 A @ 460.0 V 78.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	H

Part Detail

Revision	E
Type	AC
Mech. spec.	12T107
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LYT107
Eff. date	08-18-2025
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	03-19-2019

Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	3900 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	36.92 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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

NP1163L	
CAT NO	IDM4117T
SPEC.	12T107Y812G1
FRAME	326T HP 30 TE
VOLTS	230/460
MAG CUR	34.4/17.2 FLA 78/39
RPM	1180 RPM MAX 3900
HZ	60 PH 3 CLASS H
SER.F.	1.00 DES A SL HZ 1
NEMA-NOM-EFF	93 WK2 12.2
BLWR V	PH HZ A
RATING	40C AMB-CONT
DE BRG	6312 ODE BRG 6311
CC	010A SN 1000:1 CT, 1000:1 VT

NP VOLTS	230/460	MAX SAFE RPM	3900	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	78/39	Base Volt	460	R1	0.118	X1	0.692
HP	30HP	NL AMPS	17.2	R2	0.086	X2	0.688
BASE SPEED	1180	Slips (Hz)	0.85			XM	14.900
PHASE/HZ	3/60	WK ² (lb-ft ²)	12.2				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1183	30.0	133.0	460	60	38.7
Max Speed	1774	30.0	88.7	460	90	36.7
Min Speed	0	0.0	133.0	20.98	0.85	38.7

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	17.2
1/4	1197	7.6	33.3	460	60	19.2
1/2	1192	15.1	66.5	460	60	24.1
3/4	1188	22.6	100.0	460	60	31.0
Full Load	1183	30.0	133.0	460	60	38.7
O/L	1165	59.9	270.0	460	60	76.6

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

Remarks: Calculated Data
Vector PWM Inverter Duty



DR BY BR
CK BY
APP BY BR
DATE 3/28/2017

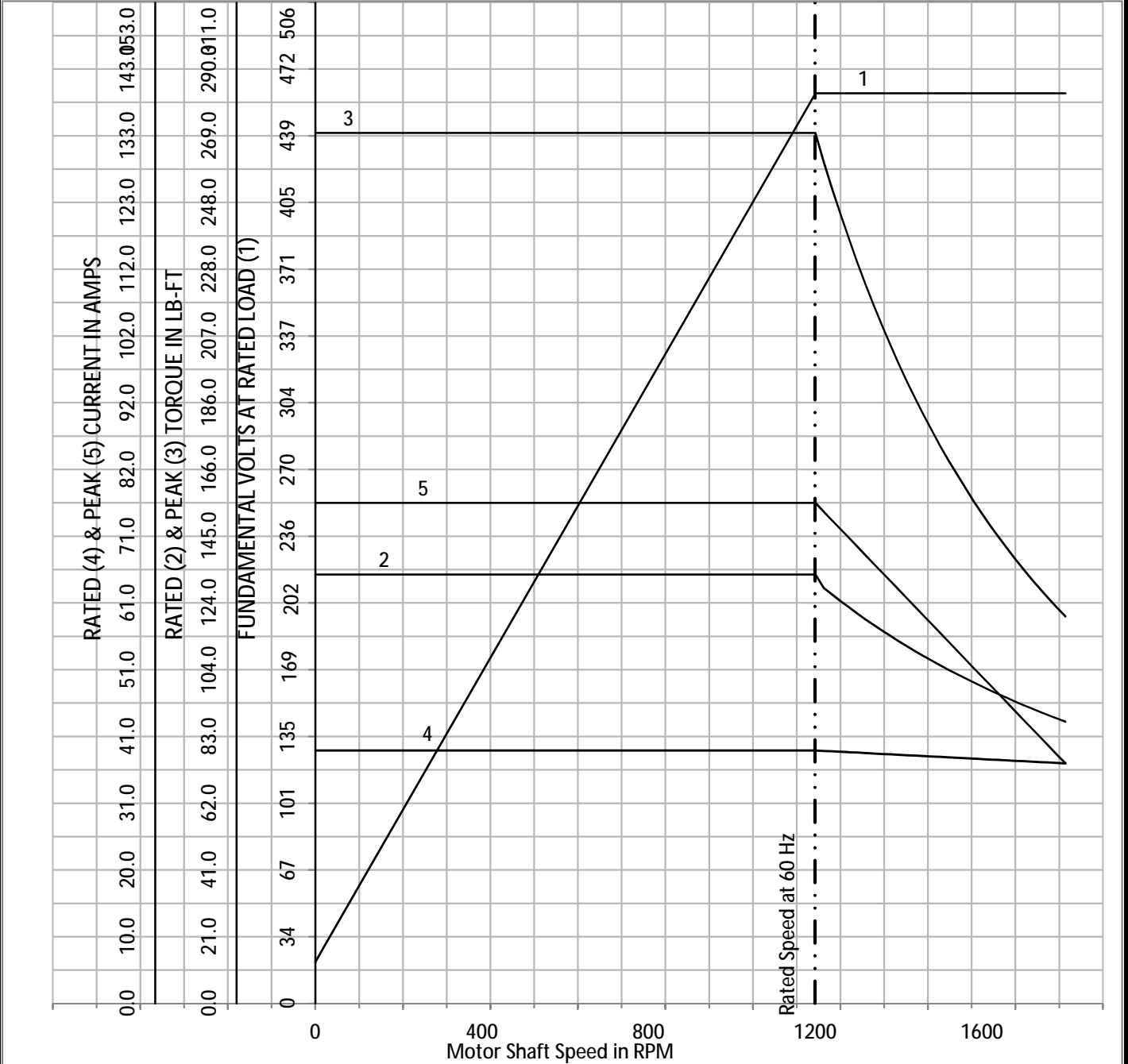
A-C MOTOR **12WGY812**
PERFORMANCE
CURVES

RELIANCE III
 NP VOLTS 230/460
 NP AMPS 78/39
 HP 30HP
 BASE SPEED 1180
 PHASE/HZ 3/60

MAX SAFE RPM 3900
 Base Volt 460
 NL AMPS 17.2
 Slips (Hz) 0.85
 WK2 (lb-ft2) 12.2

WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
 R1 0.118 X1 0.692
 R2 0.086 X2 0.688
 XM 14.900

Vector PWM Inverter Duty
 Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only



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A-C MOTOR **12WGY812**
 PERFORMANCE
 CURVES

RELIANCE III

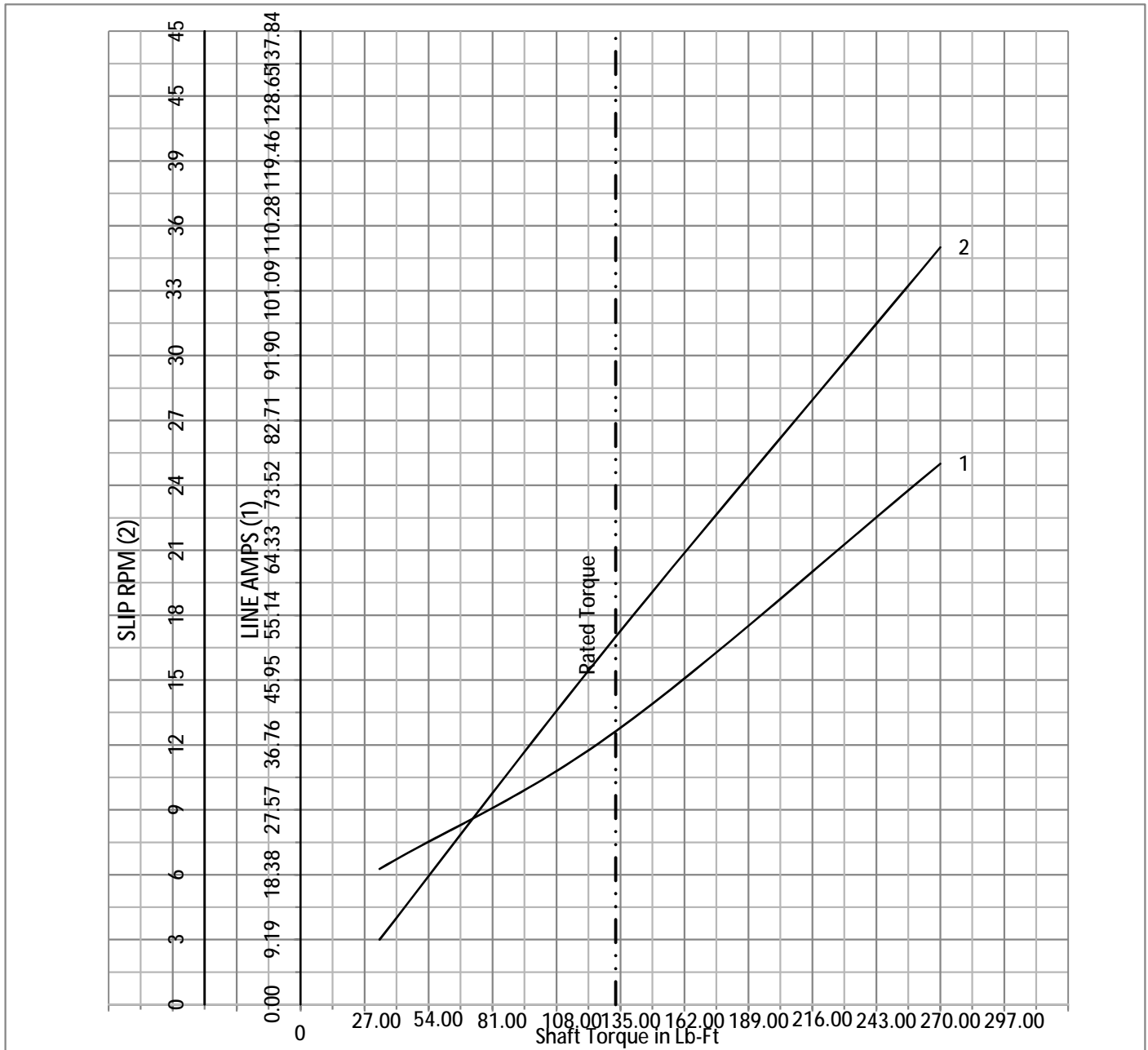
NP VOLTS 230/460
 NP AMPS 78/39
 HP 30HP
 BASE SPEED 1180
 PHASE/HZ 3/60

MAX SAFE RPM 3900
 Base Volt 460
 NL AMPS 17.2
 Slips (Hz) 0.85
 WK2 (lb-ft²) 12.2

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

R1	0.118	X1	0.692
R2	0.086	X2	0.688
		XM	14.900

Vector PWM Inverter Duty
 Variable Speed AC Motor Curves



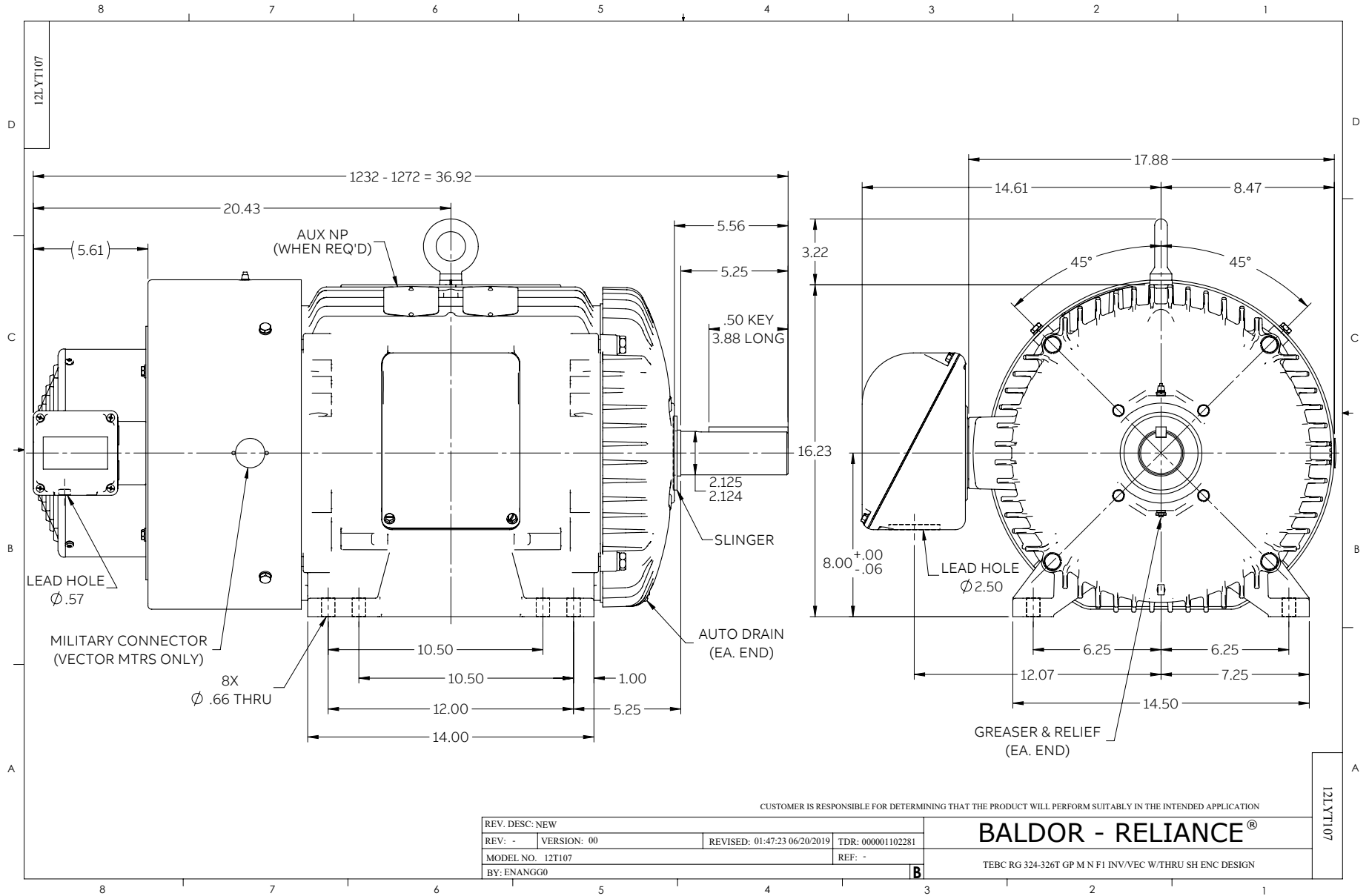
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A-C MOTOR **12WGY812**
 PERFORMANCE
 CURVES



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS