

ABB BALDOR RELIANCE III

Customer information packet

ZDNM2237T

7.5HP, 1765RPM, 3PH, 60HZ, 256TC, 0932M, TENV

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	256TC
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	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	18.200 A @ 230.0 V 9.100 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 Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.1 a

Part Detail

Revision	J
Type	AC
Mech. spec.	09F277
Base	
Status	PRD/A
Elec. spec.	09WGT341
Layout	09LYF277
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	09-26-2016

Insulation Class	H
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0932M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.05 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
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1168L									
CAT NO	ZDNM2237T								
SPEC.	09F277T341Z1								
FRAME	256TC			HP	7.5 TE				
VOLTS	230/460								
MAG CUR	7.8/3.9			FLA		18.2/9.1			
RPM	1765		RPM MAX			5000			
HZ	60		PH	3	CLASS		H		
SER.F.	1.00		DES	A	SL HZ		1.2		
NEMA-NOM-EFF	91.7		WK2	1.4					
BLWR V		PH		HZ		A			
RATING	40C AMB-CONT								
DE BRG	6309		ODE BRG			6208			
CC	010A		SER.NO						

NP VOLTS	230/460	MAX SAFE RPM	5000	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	18.2/9.1	Base Volt	460	R1	0.654	X1	2.120
HP	7.5HP	NL AMPS	4.0	R2	0.441	X2	2.250
BASE SPEED	1765	Slips (Hz)	1.07			XM	62.100
PHASE/HZ	3/60	WK ² (lb-ft ²)	1.4				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1768	7.4	22.1	460	60	9.1
Max Speed	2652	7.5	14.8	460	90	8.7
Min Speed	0	0.0	22.1	27.07	1.07	9.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	4.0
1/4	1792	1.8	5.3	460	60	4.5
1/2	1785	3.7	11.0	460	60	5.7
3/4	1777	5.6	16.6	460	60	7.4
Full Load	1768	7.4	22.1	460	60	9.1
O/L	1737	14.9	45.0	460	60	17.7

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

Remarks: Calculated Data
Vector PWM Inverter Duty



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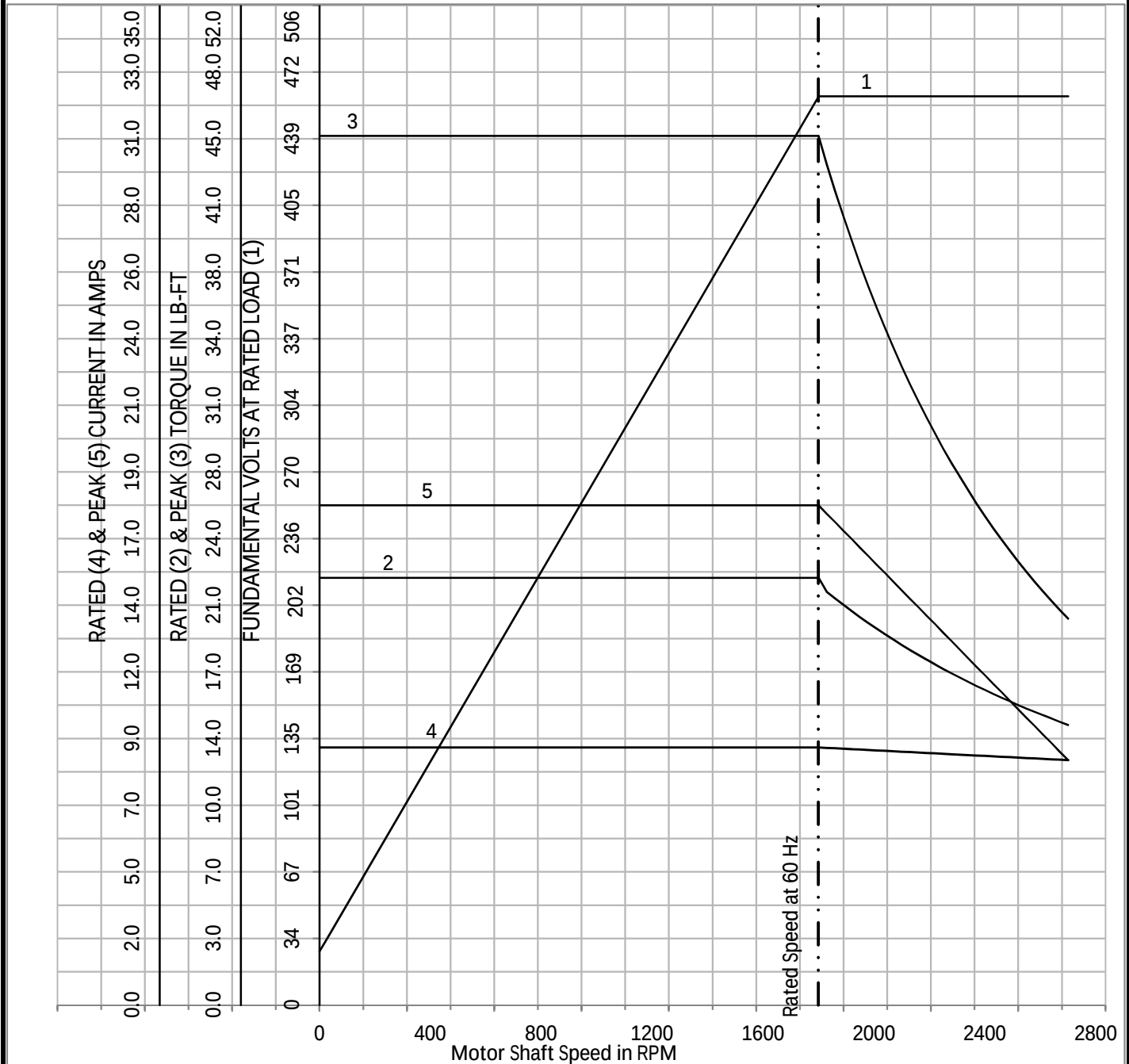
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09WGT341

NP VOLTS 230/460
NP AMPS 18.2/9.1
HP 7.5HP
BASE SPEED 1765
PHASE/HZ 3/60

MAX SAFE RPM 5000
Base Volt 460
NL AMPS 3.97
Slips (Hz) 1.07
WK2 (lb-ft²) 1.4

WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
R1 0.654 X1 2.120
R2 0.441 X2 2.250
XM 62.100

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

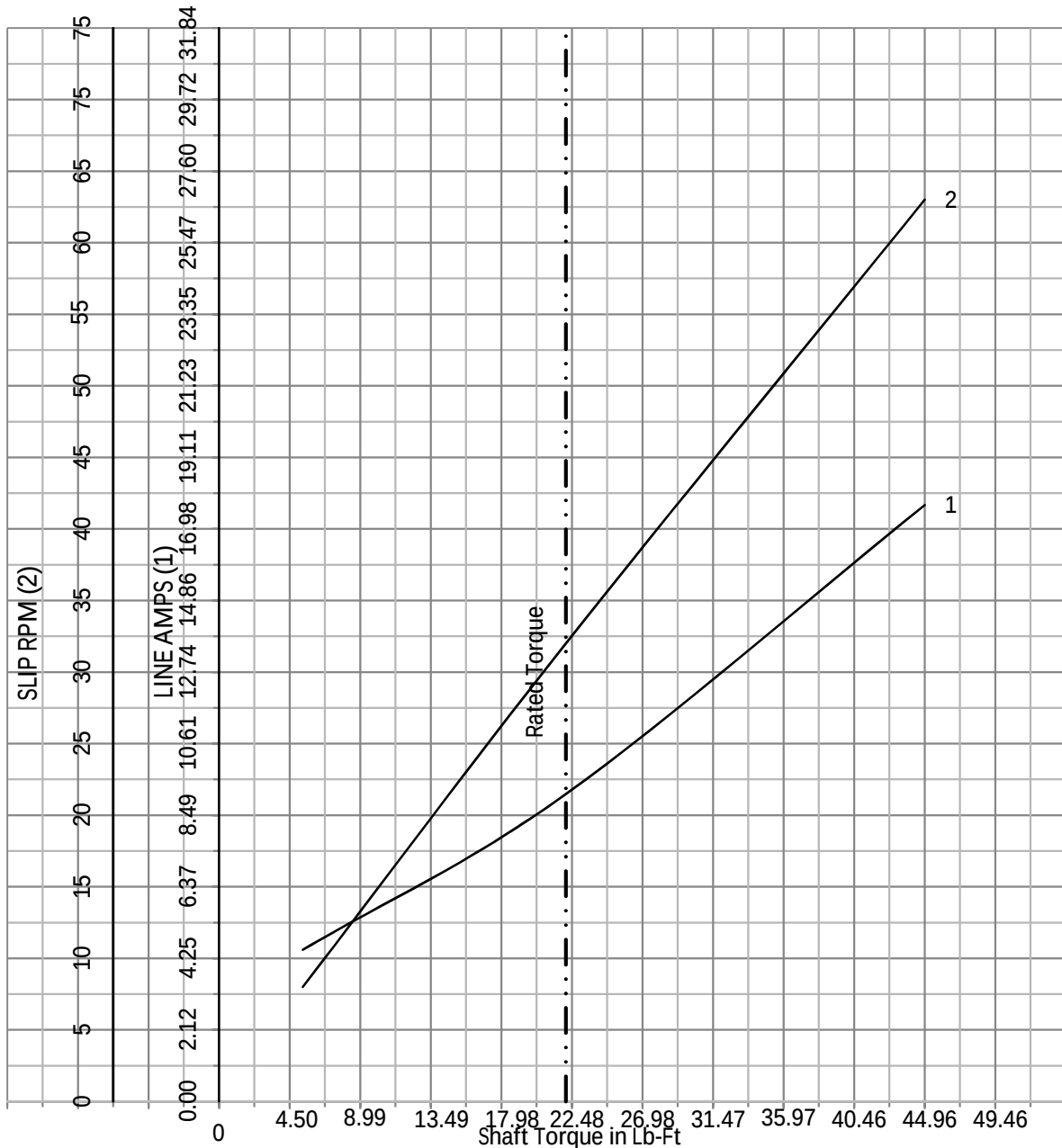


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CURVES

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Vector PWM Inverter Duty
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