

ABB BALDOR RELIANCE III

Customer information packet

ZDNM3669T

2HP, 1760RPM, 3PH, 60HZ, 182TC, 0624M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	182TC
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	2.000 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	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	3.000 A @ 460.0 V 6.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	3.0 a

Part Detail

Revision	C
Type	AC
Mech. spec.	06F550
Base	
Status	PRD/A
Elec. spec.	06WGX813
Layout	06LYF550
Eff. date	06-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-21-2016

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0624M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.21 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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.	ZDNM3669T								
SPEC.	06F550X813Z1								
FRAME	182TC			H.P.	2 TE				
VOLTS	230/460								
MAG. CUR.	3.8/1.9			F.L. AMPS				6/3	
R.P.M.	1760			R.P.M. MAX			6000		
HZ.	60		PH.	3	CLASS			H	
SER.F.	1.00		DES.	B	SL HZ			1.3	
NEMA NOM. EFF.	88.5		WK2	0.22					
BLWR V		PH		HZ		AMPS			
RATING	40C AMB-CONT								
DE	6206	ODE	6205						
CC	010A	SN							
	1000:1 CT/VT								

NP VOLTS	230/460					WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
NP AMPS	45446	Base Volt	460	R1	3.320	X1 6.760
HP	2	NL AMPS	1.85	R2	1.870	X2 5.300
BASE SPEED	1762	Slip (HZ)	1.27			XM 132.000
PHASE/HZ	3/60	WK ² (lb-ft ²)	0.223			

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1762	2.0	6.0	460	60	3.0
Max Speed	2643	2.0	4.0	460	90	2.6
CT Min Speed	1.762	0.002	6.0	0.46	0.06	3.0

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1796	0.0	0.0	460	60	1.9
1/4	1791	0.5	1.5	460	60	2.0
1/2	1782	1.0	2.9	460	60	2.2
3/4	1773	1.5	4.5	460	60	2.5
Full Load	1762	2.0	6.0	460	60	3.0
O/L	1726	4.0	12.3	460	60	5.2

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

Remarks: Calculated Data

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DR BY USBRRAN1
CK BY CD
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DATE 11/1/2024
**A-C MOTOR
PERFORMANCE
CURVES**
06WGX813

Record: 58281

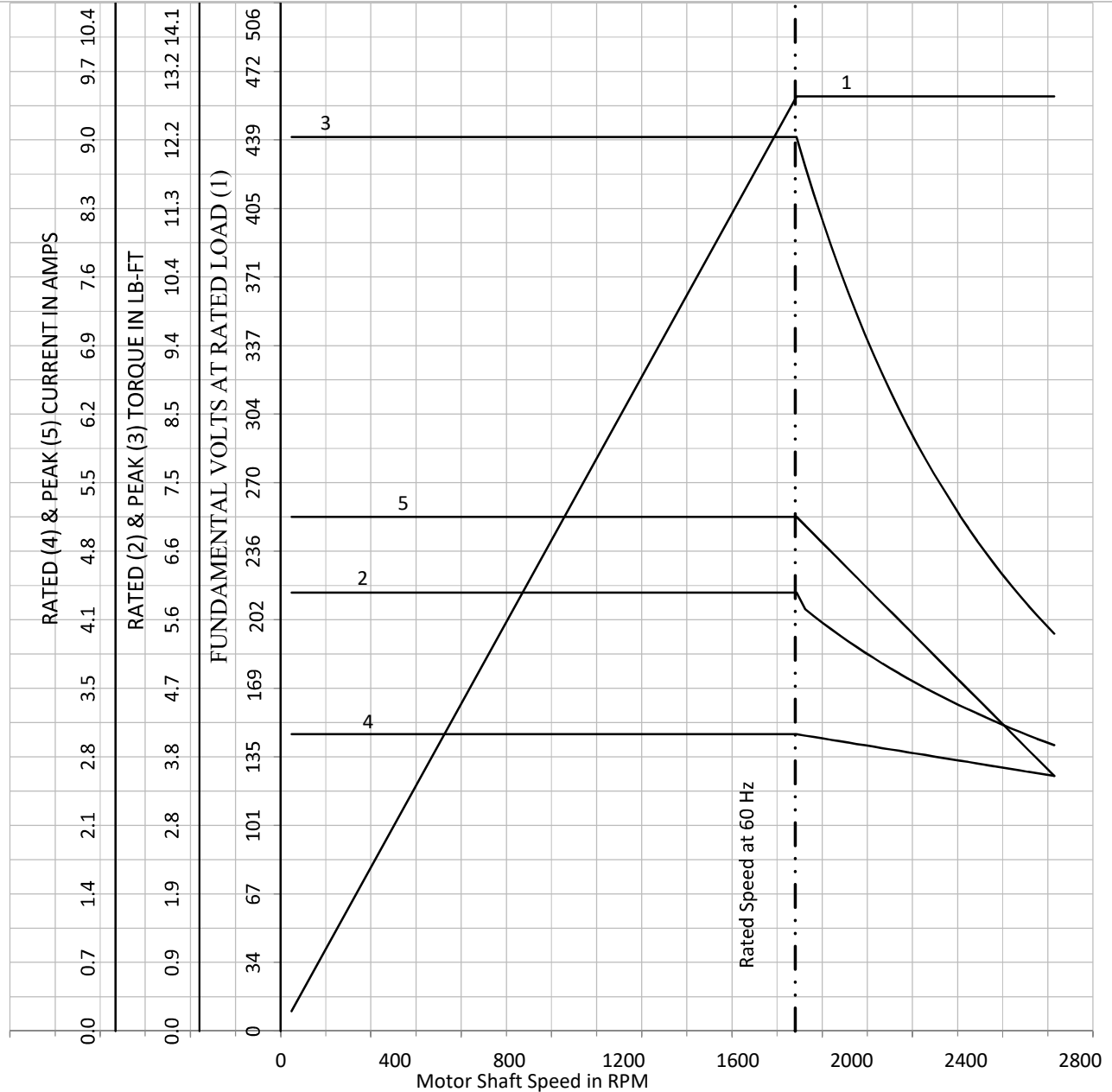
NP VOLTS 230/460
 NP AMPS 45446
 HP 2
 BASE SPEED 1762
 PHASE/HZ 3/60

Base Volt 460
 NL AMPS 1.85
 Slip (HZ) 1.27
 WK² (lb-ft²) 0.223

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

R1	3.320	X1	6.760
R2	1.870	X2	5.300
		XM	132.000

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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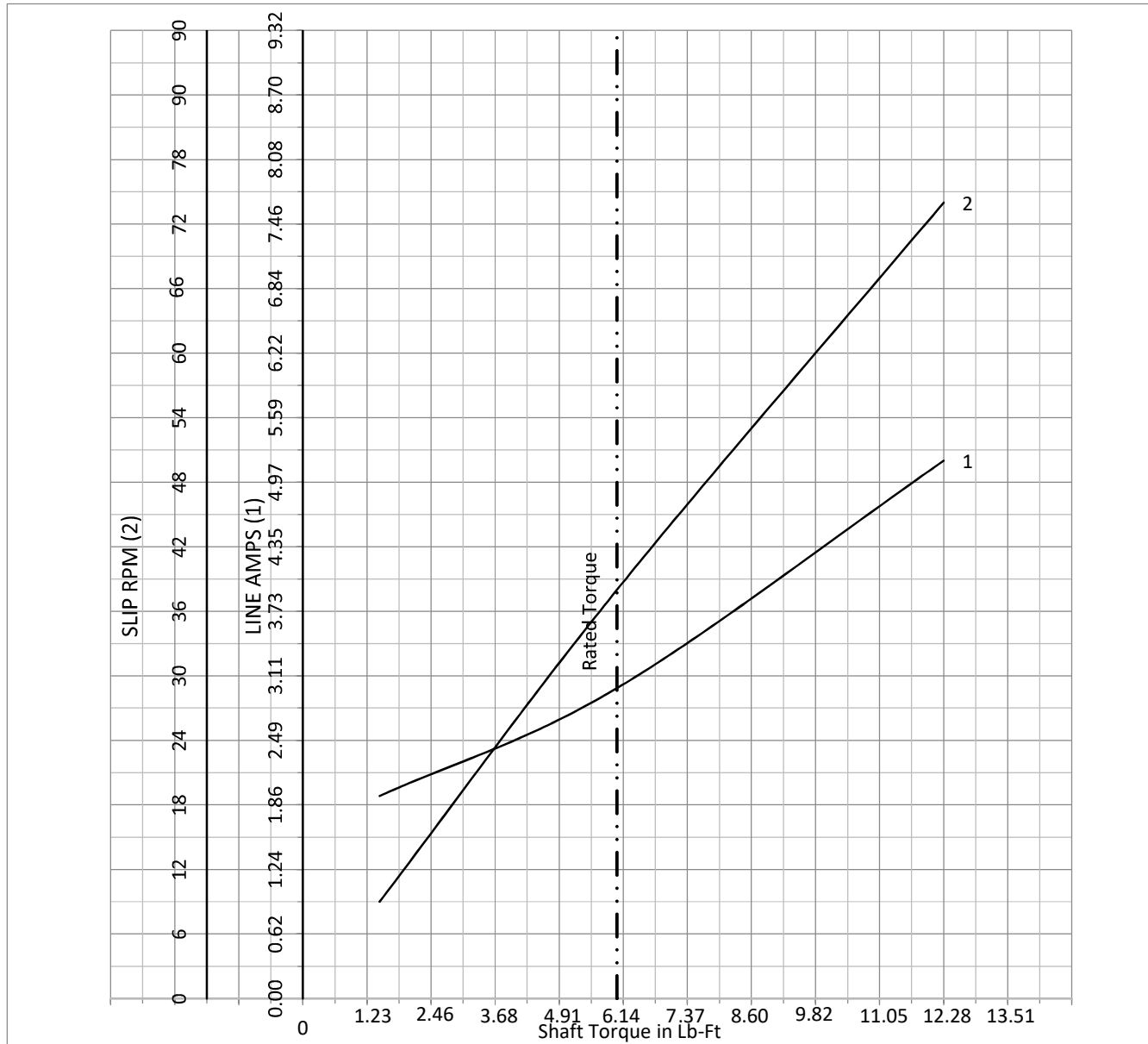
**A-C MOTOR
PERFORMANCE
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06WGX813

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NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	45446	Base Volt	460	R1	3.320	X1	6.760
HP	2	NL AMPS	1.85	R2	1.870	X2	5.300
BASE SPEED	1762	Slip (HZ)	1.27			XM	132.000
PHASE/HZ	3/60	WK2 (lb-ft2)	0.223				

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

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