

ABB BALDOR RELIANCE III

Customer information packet

ZDNM3767T

5HP, 1765RPM, 3PH, 60HZ, 213TC, 0740M, TENV, F1

Class - None

Division - Not Applicable

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								

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

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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DR BY USBRRAN1
CK BY CD
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DATE 11/5/2024
**A-C MOTOR
PERFORMANCE
CURVES**
07WGY566

Record: 62111

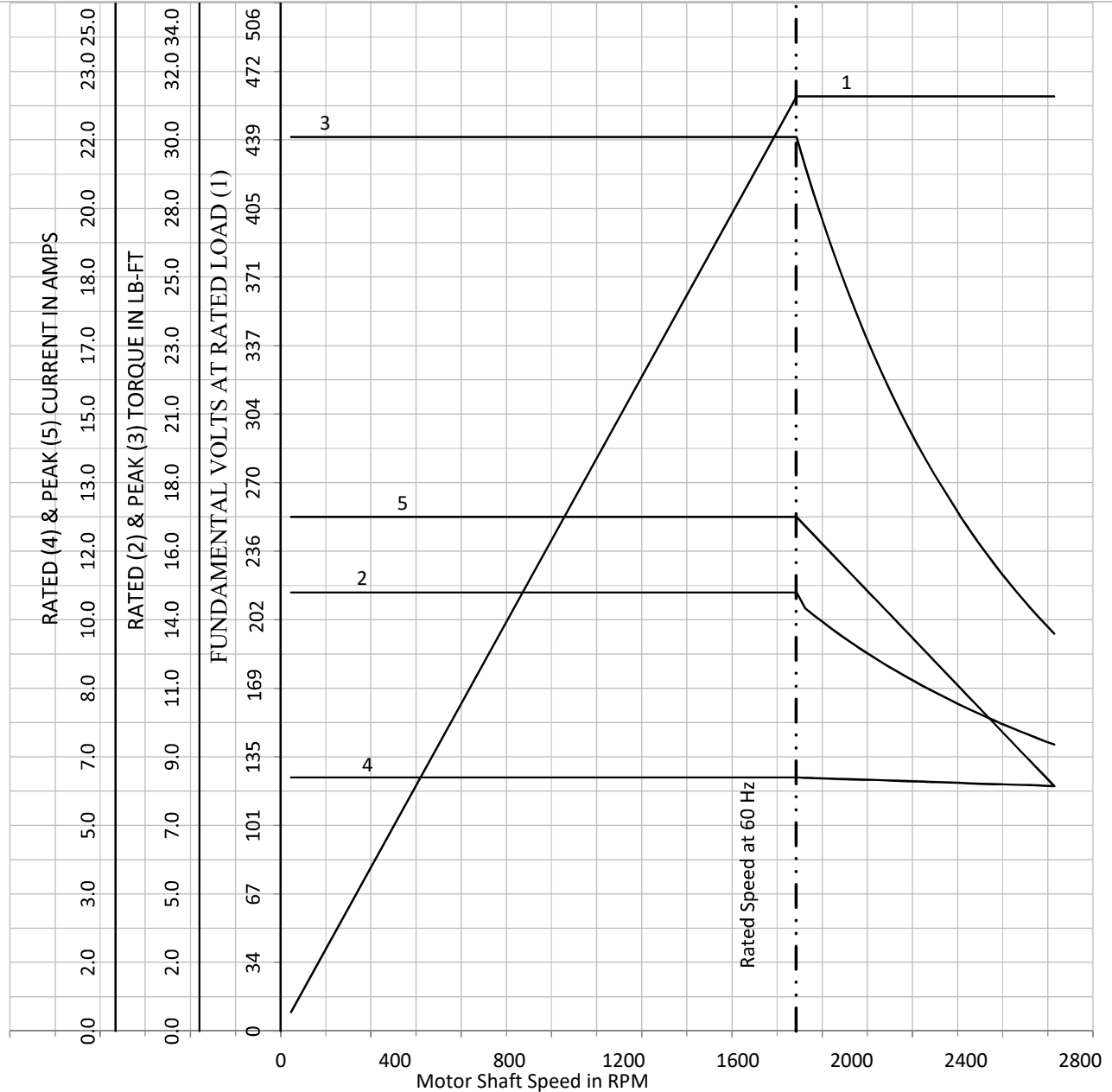
NP VOLTS 230/460
 NP AMPS 12.4/6.2
 HP 5
 BASE SPEED 1764
 PHASE/HZ 3/60

Base Volt 460
 NL AMPS 2.46
 Slip (HZ) 1.20
 WK² (lb-ft²) 0.984

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

R1	1.200	X1	4.150
R2	0.716	X2	3.240
		XM	105.000

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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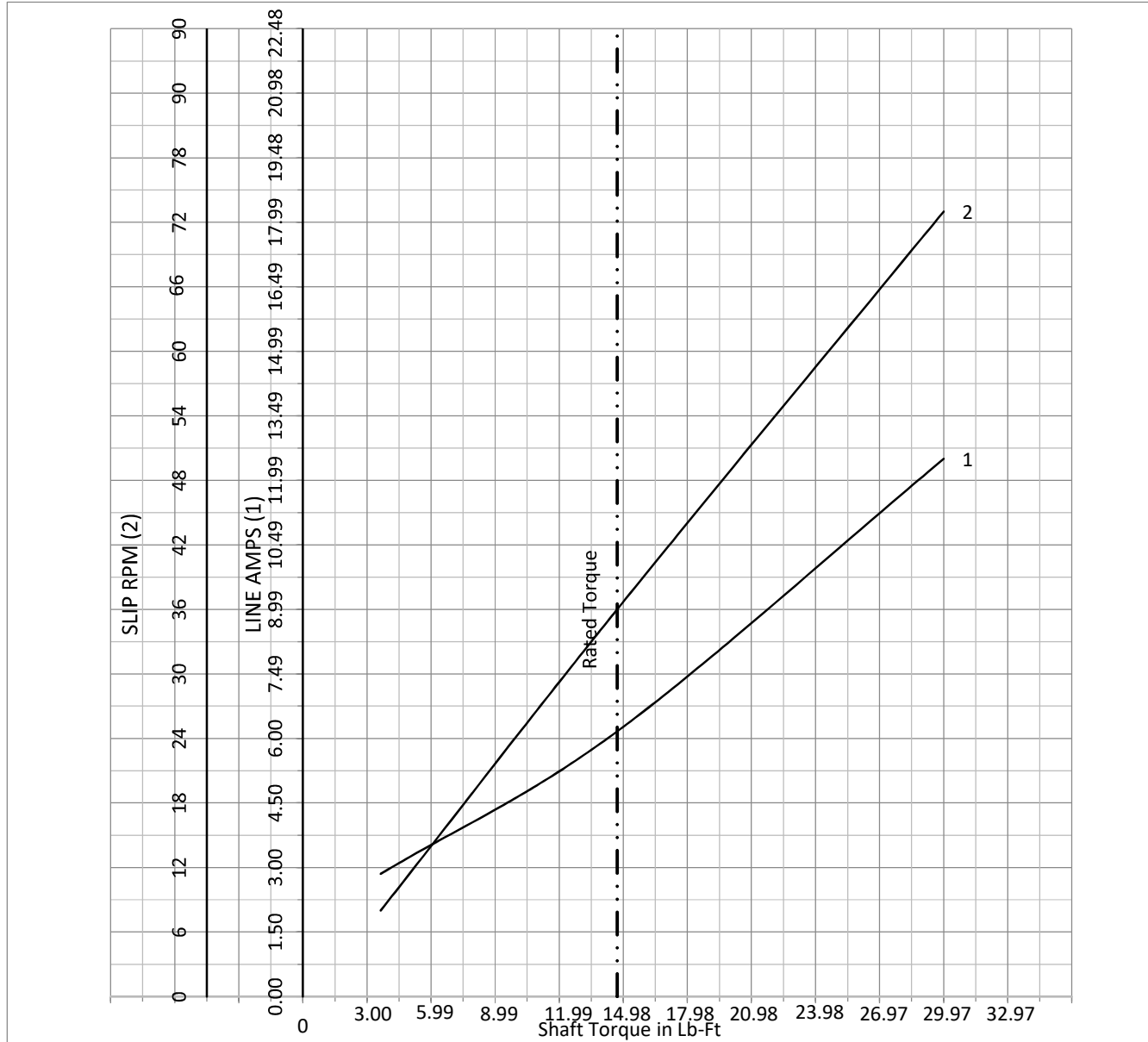
**A-C MOTOR
PERFORMANCE
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07WGY566

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 Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

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