

ABB BALDOR RELIANCE III

Customer information packet

ZDVSNM3665T

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0642M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	184TC
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	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	13.200 A @ 230.0 V 6.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a

Part Detail

Revision	M
Type	AC
Mech. spec.	06H929
Base	
Status	PRD/A
Elec. spec.	06WGX369
Layout	06LYH929
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-05-2012

Insulation Class	F
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	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.85 IN
Power Factor	80
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	1750 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.	ZDVSNM3665T								
SPEC.	06H929X369Z1								
FRAME	184TC			H.P.	5 TE				
VOLTS	230/460 1000:1 CT/VT								
MAG. CUR.	7.2/3.6			F.L. AMPS				13.2/6.6	
R.P.M.	1750			R.P.M. MAX			6000		
HZ.	60		PH.	3	CLASS		F		
SER.F.	1.00		DES.	A	SL HZ		1.6		
NEMA NOM. EFF.	89.5		WK2	0.39					
BLWR V		PH		HZ		AMPS			
RATING	40C AMB-CONT								
DE	6206	ODE		6206					
CC	010A	SN							
	1.5:1 CHP PWM								

REL S.O.	ZDVSNM3665T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	184TC	AMPS	6.6	MAX SAFE RPM	6000	(AT BASE RATING, 25°C)			
HP	5	DUTY	CONT	In (AMPS)	3.6	R1	1.1200	X1	2.8100
BASE SPEED	1750	S.F.	1.0	P.F. @NL/FL	6/79	R2	0.9210	X2	2.3200
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK ² (lb-ft ²)	0.4			XM	68.7200

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1751	5.0	15.00	460	60	6.54
Max Speed	2626	5.0	9.98	460	90	5.95
Min Speed	0	0.0	14.97	32.29	1.63	6.54

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.00	460	60	3.60
1/4	1788	1.3	3.74	460	60	3.72
1/2	1777	2.5	7.52	460	60	4.37
3/4	1764	3.8	11.30	460	60	5.41
Full Load	1751	5.0	15.00	460	60	6.54
O/L	1708	10.0	30.70	460	60	12.00

Blower Data

Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty



DR BY Micheal Williamson
CK BY Micheal Williamson
APP BY Micheal Williamson
DATE 5/14/2013

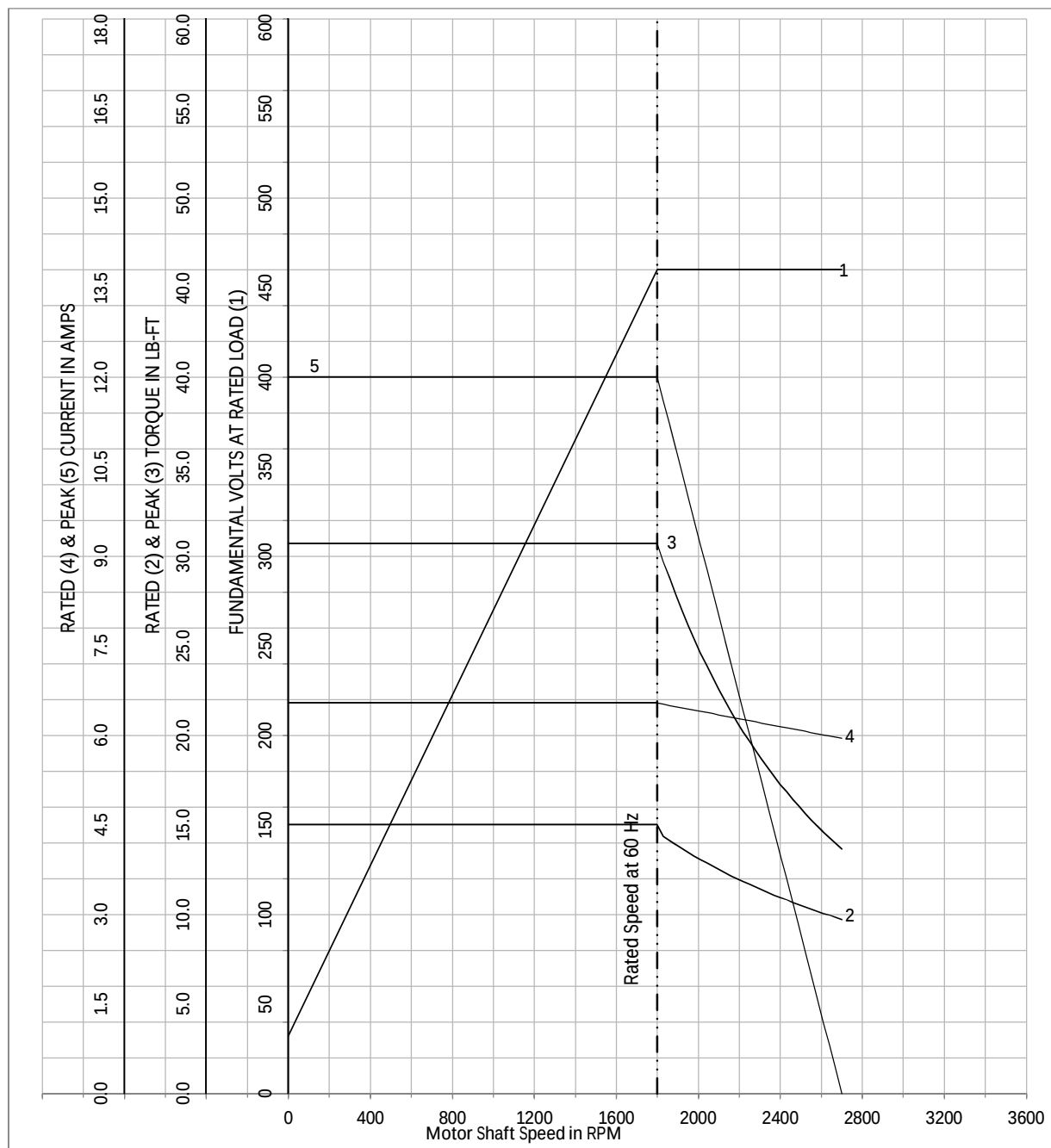
A-C MOTOR
PERFORMANCE CURVES

06H929X369Z1

ISSUE DATE 5/14/2013

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Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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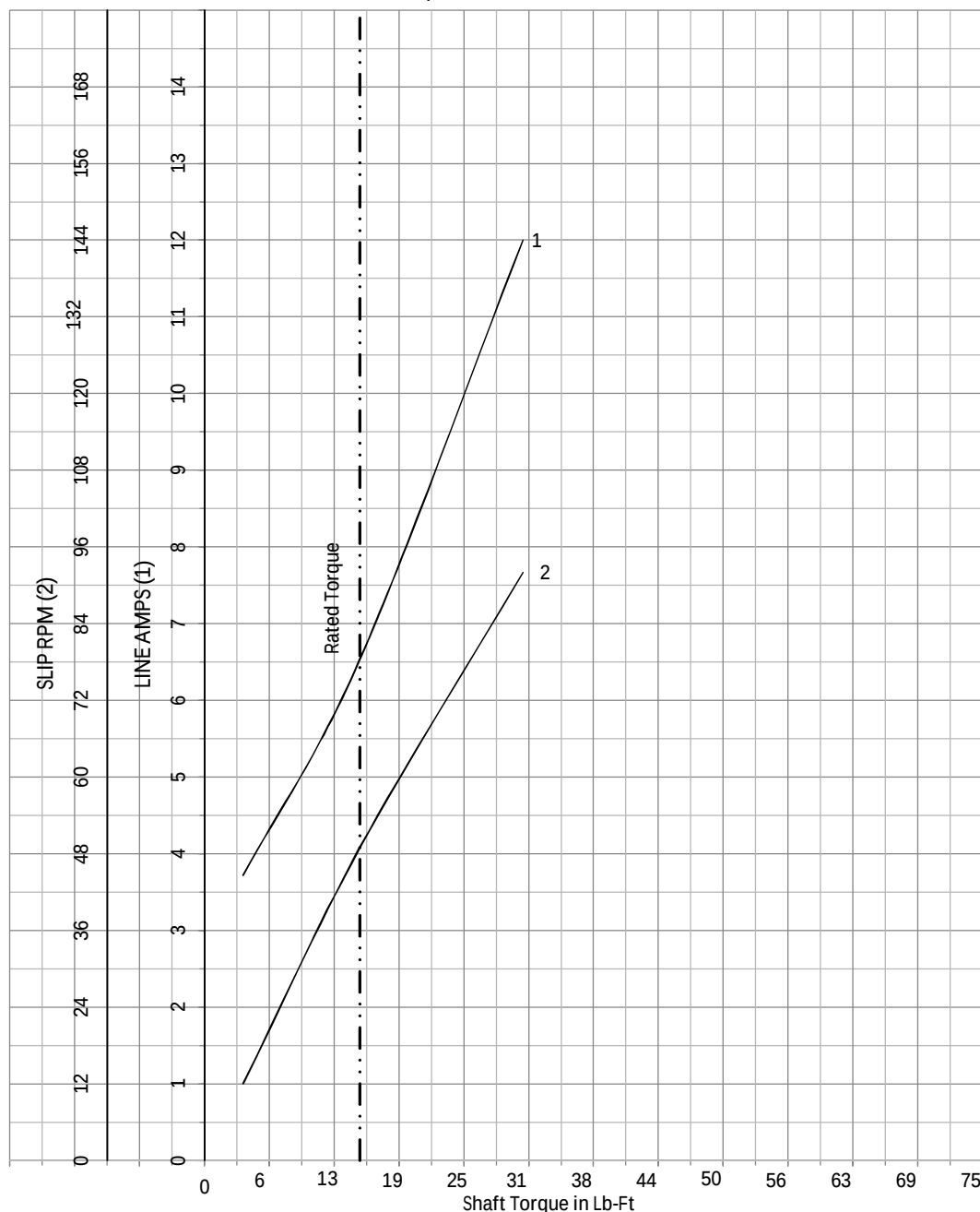
A-C MOTOR PERFORMANCE
CURVES

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SH 1 of 2
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Vector PWM Inverter Duty
Variable Speed AC Motor Curves



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