

ABB BALDOR RELIANCE III

Customer information packet

ZDVSNM3661T

3HP, 1760RPM, 3PH, 60HZ, 182TC, 0636M, 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	3.000 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	4.300 A @ 460.0 V 8.600 A @ 230.0 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	4.3 a

Part Detail

Revision	L
Type	AC
Mech. spec.	06H929
Base	
Status	PRD/A
Elec. spec.	06WGX370
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	L
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	0636M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.85 IN
Power Factor	73
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

NP4357L									
CAT NO	ZDVSNM3661T								
SPEC.	06H929X370Z1								
FRAME	182TC			HP	3 TE				
VOLTS	230/460								
MAG CUR	4.8/2.4			FLA			8.6/4.3		
RPM	1760		RPM MAX			6000			
HZ	60	PH	3	CLASS			F		
SER.F.	1.00		SL HZ			1.2			
NEMA-NOM-EFF	89.5		WK2		0.372				
RATING	40C AMB-CONT								
DE BRG	6206	ODE BRG			6206				
CC	010A	SN							
	1.5:1 CHP PWM								
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA251249	SA 06H929X370Z1	1.000 ea
RA238091	RA 06H929X370Z1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A03	CONDUIT BOX, MACH	1.000 ea
06GS1000	GASKET, CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1301A81	FRONT 182-4C 206 BRG W/ GRS & DRILLED T-	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36PE1300A01	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A26	1/4-20X 1 5/8 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA3101A39	THRUBOLT 1/4-20 X 10.687	4.000 ea
HA6881	BEI HS35 THRU SHAFT ENCODER PROTECTIVE C	1.000 ea
10XN3816A10	3/8-16 X 5/8 HEX HD CAP SCREW	3.000 ea
06CB1500A01	CONDUIT BOX LID, MACH	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
OE5001A8OSP	ENCDR KIT TENV W/OEHS35A10 W/BLIND SHAFT	1.000 ea
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.028 ga
LC0145B01	CONNECTION LABEL	1.000 ea
NP4357L	SS VEC UL CSA-EEV PREM CC (W/OUT DESIGN	1.000 ea

36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

REL S.O.	ZDVSNM3661T	VOLTS	460	ENCLOSURE	TENV	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	182TC	AMPS	4.1	MAX SAFE RPM	6000	(AT BASE RATING, 25°C)			
HP	3	DUTY	CONT	In (AMPS)	2.4	R1	1.8960	X1	5.0400
BASE SPEED	1760	S.F.	1.0	P.F. @NL/FL	6/73	R2	1.3540	X2	4.2900
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK ² (lb-ft ²)	0.326			XM	112.2000

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1765	3.0	8.98	460	60	4.29
Max Speed	2630	3.0	6.04	460	90	3.90
Min Speed	0	0.0	9.00	31.64	1.17	4.29

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.00	460	60	2.40
1/4	1791	0.8	2.30	460	60	2.67
1/2	1783	1.5	4.51	460	60	3.04
3/4	1774	2.3	6.71	460	60	3.61
Full Load	1765	3.0	8.98	460	60	4.29
O/L	1735	5.0	15.20	460	60	6.60

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

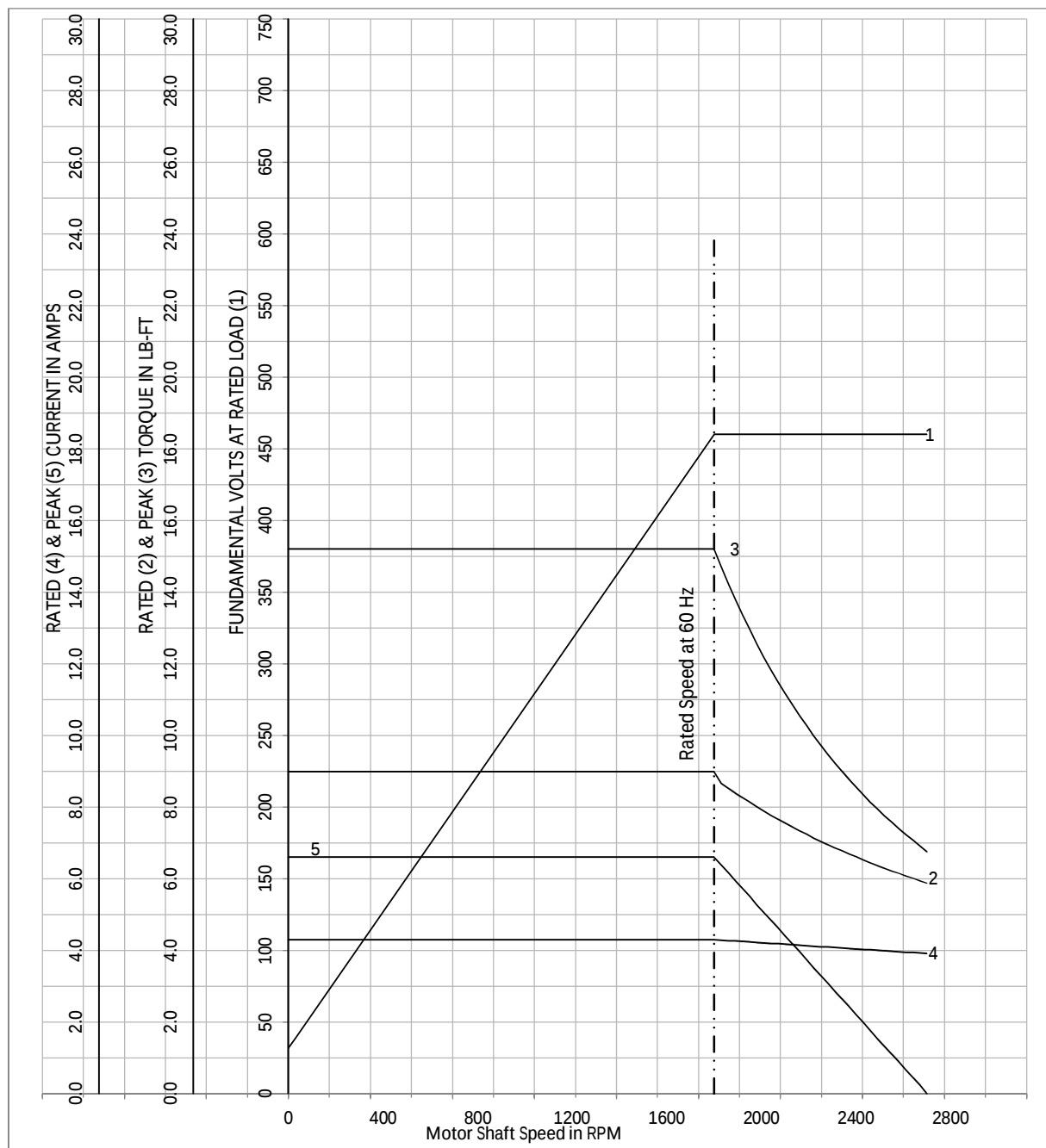
A-C MOTOR
PERFORMANCE CURVES

06H929X370Z1

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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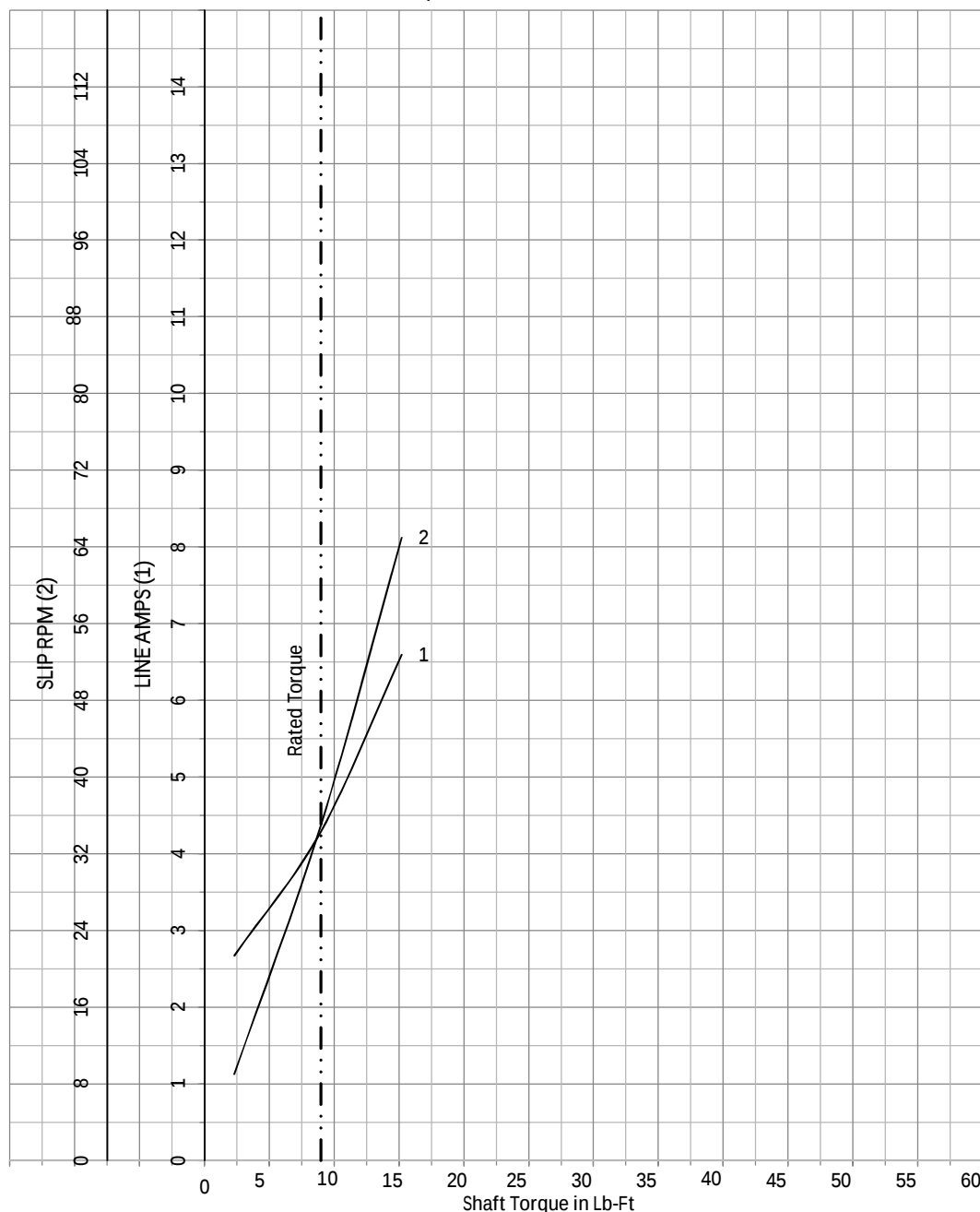
A-C MOTOR PERFORMANCE
CURVES

06H929X370Z1

SH 1 of 2
ISSUE DATE 5/14/2013

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Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

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A-C MOTOR
PERFORMANCE CURVES

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