



Customer information packet

ZDVSNM2238T

10HP, 1770RPM, 3PH, 60HZ, 254TC, 0948M, TENV, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	254TC
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	10.000 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	13.000 A @ 460.0 V 26.000 A @ 230.0 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	13.0 a

Part detail

Revision	AA
Type	AC
Mech. spec.	09K345
Base	
Status	PRD/A
Elec. spec.	09WGY402
Layout	09LYK345
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	07-16-2012

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0948M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.05 IN
Power Factor	78
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	1770 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

NP3304L				
CAT NO	ZDVSNM2238T			
SPEC.	09K345Y402Z1			
FRAME	254TC	HP	10 TE	
VOLTS	230/460			
MAG CUR	11.2/5.6		FLA	26/13
RPM	1770	RPM MAX		2700
HZ	60	PH	3	CLASS F
SER.F.	1.00	SL HZ		0.9
NEMA-NOM-EFF	91.7	WK2	2.1	
RATING	40C AMB-CONT			
DE BRG	6309	ODE BRG		6208
CC	010A	SER.NO		
	1.5:1 CHP PWM			

REL S.O.	ZDVSNM2238T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CTK OHMS PER PHASE
FRAME	254TC	AMPS	13	MAX SAFE RPM	5400	(AT BASE RATING, 25°C)
HP	10	DUTY	CONT	In (AMPS)	5.6	R1 0.3390 X1 0.1364
BASE SPEED	1770	S.F.	1.00	P.F. @NL/FL	6/78	R2 0.2730 X2 1.6460
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK² (lb-ft²)	2.1	XM 45.2050

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1773	10.1	29.8	460	60	13.0
Max Speed	2659	10.0	19.8	460	90	11.6
Min Speed	0	0.0	29.7	18.46	0.90	13.0

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	5.6
1/4	1793	2.5	7.5	460	60	6.6
1/2	1787	5.1	14.9	460	60	8.1
3/4	1780	7.6	22.4	460	60	10.4
Full Load	1773	10.1	29.8	460	60	13.0
O/L	1707	27.5	84.6	460	60	34.2

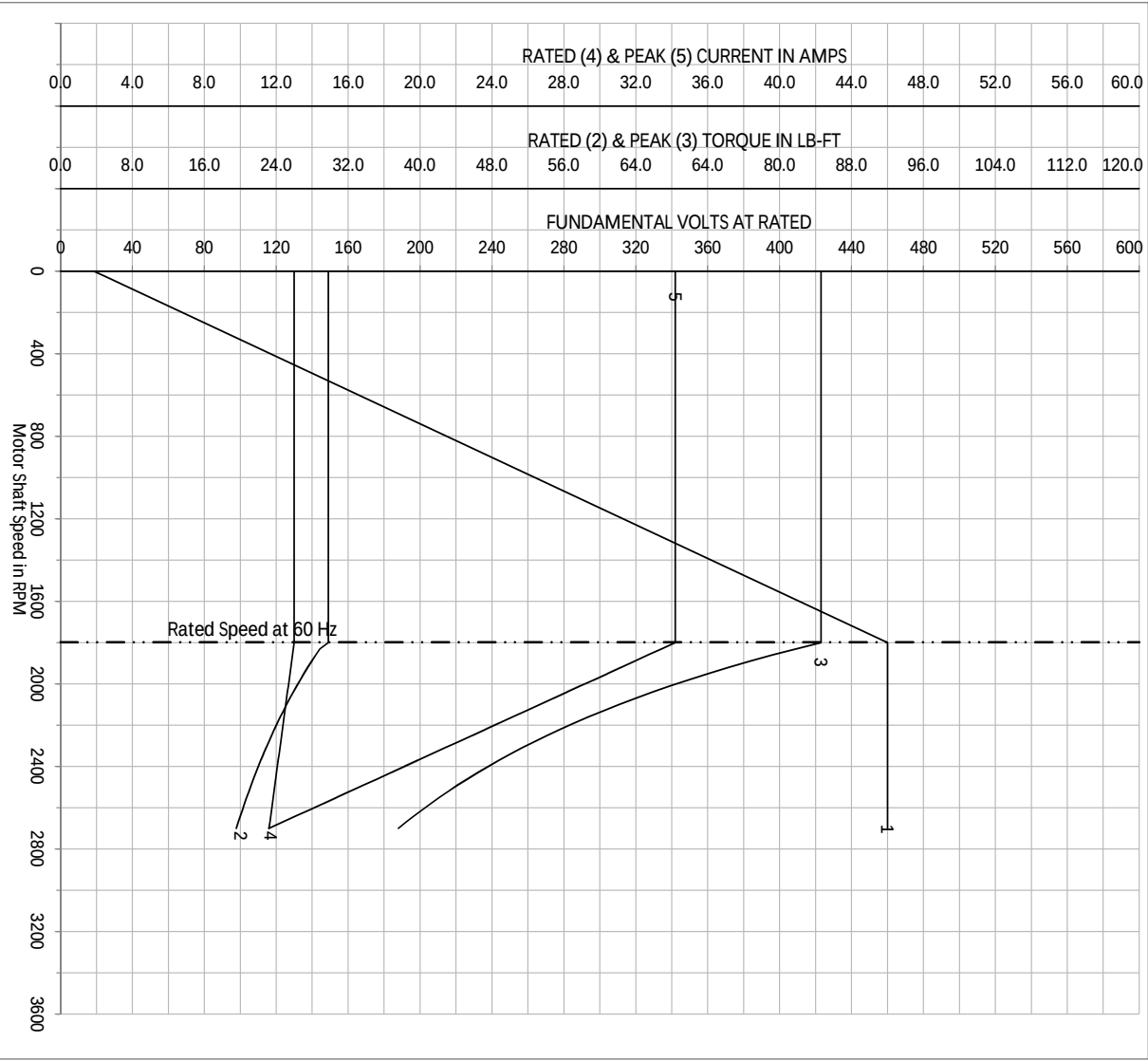
Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
 Vector PWM Inverter Duty

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REL S.O.	ZDVSNM2238T									
FRAME	254TC	VOLTS	460	ENCLOSURE	TEFC	WYE CONNECTION OHMS PER PHASE				
HP	10	AMPS	13	MAX SAFE RPM	5400	(AT BASE RATING, 25°C)				
BASE SPEED	1770	DUTY	CONT	In (AMPS)	5.6	R1	0.390	X1	0.1364	
PHASE/HZ	3/60	S.F.	1.00	P.F. @N/FL	6/78	R2	0.2730	X2	1.6460	
		AMB°C/INSUL	40/F	WK² (lb-ft²)	2.1			XM	45.2050	

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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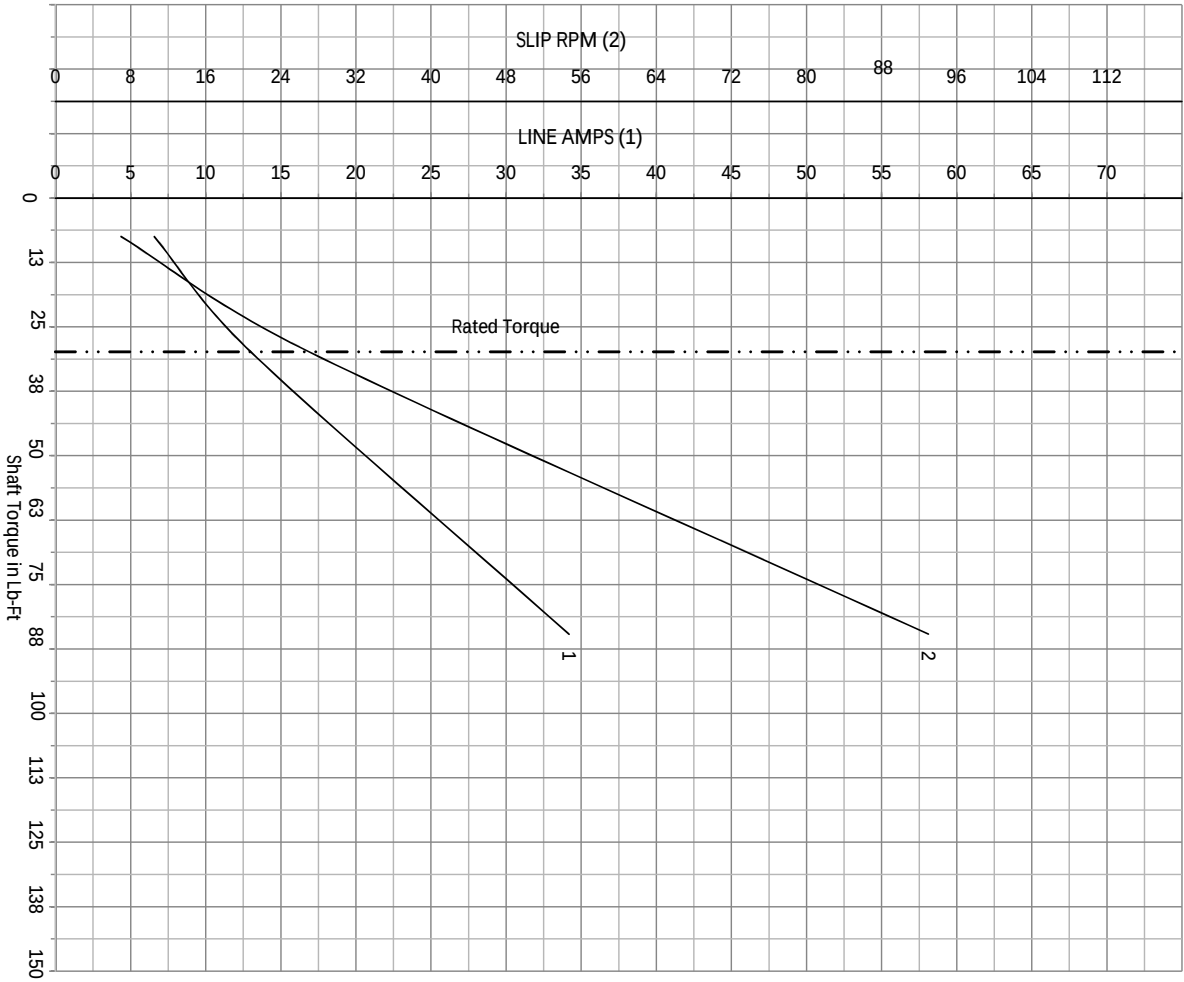
DR BY E. Rowan
CK BY E. Rowan
APP BY E. Rowan
DATE 1/24/2013

A-C MOTOR PERFORMANCE CURVES

09K345Y402Z1
SH 1 of 2
ISSUE DATE 1/24/2013

REL S.O.	ZDVSNM2238T	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE
FRAME	254TC	AMPS	13	MAX SAFE RPM	5400	(AT BASE RATING, 25°C)
HP	10	DUTY	CONT	In (AMPS)	5.6	R1 0.3390 X1 0.1364
BASE SPEED	1770	S.F.	1.00	P.F. @NL/FL	6/78	R2 0.2730 X2 1.6460
PHASE/HZ	3/60	AMB°C/INSUL	40/F	WK² (LB-FT²)	2.1	XM 45.2050

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



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A-C MOTOR PERFORMANCE
CURVES

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