

**BALDOR • RELIANCE**

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# Customer information packet

## ZDVSCP2333T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F

Class - None

Division - Not Applicable

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## Specifications

Enclosure	TEFC
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	15.000 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	18.100 A @ 460.0 V 36.200 A @ 230.0 V 38.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	TACHOMETER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a

## Part detail

Revision	F
Type	AC
Mech. spec.	09K342
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYK342
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Quantity/Wire Size</b>	9 @ 12 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0944M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	28.14 IN
<b>Power Factor</b>	84
<b>Product Family</b>	Chemical Processing (Not DC)
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS NON-COMPLIANT
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	1765 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3303L</b>			
<b>CAT NO</b>	ZDVSCP2333T		
<b>SPEC.</b>	09K342T597Z1		
<b>FRAME</b>	254TC	<b>HP</b>	15 TE
<b>VOLTS</b>	230/460		
<b>MAG CUR</b>	14.6/7.3	<b>FLA</b>	36.2/18.1
<b>RPM</b>	1765	<b>RPM MAX</b>	2700
<b>HZ</b>	60	<b>PH</b>	3 <b>CLASS</b> F
<b>SER.F.</b>	1.00	<b>SL HZ</b>	1.2
<b>NEMA-NOM-EFF</b>	92.4	<b>WK2</b>	1.93
<b>RATING</b>	40C AMB-CONT		
<b>DE BRG</b>	6309	<b>ODE BRG</b>	6309
<b>CC</b>	010A <b>SN</b>		
	1.5:1 CHP PWM		
	1000:1 CT, 1000:1 VT		

<b>NP0090L</b>	
<b>FRONT</b>	6309
<b>PULLEY</b>	6309
<b>LUBRICATE WITH</b>	
<b>GREASE</b>	POLYREX EM

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 200°)			
NP AMPS	36.2/18.1	Base Volt	460	R1	0.296	X1	1.130
HP	15HP	NL AMPS	7.6	R2	0.238	X2	1.330
BASE SPEED	1765	Slips	1.17	XM			33.900
PHASE/HZ	3/60	WK <sup>2</sup> (lb-ft <sup>2</sup> )	1.92				

**Rated Full Load Data**


	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1765	15.0	44.5	460	60	18.1
Max Speed	2646	15.0	29.7	460	90	17.2
Min Speed	0	0.0	44.5	23.08	1.17	18.1

**Load Performance at Base Speed**

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	7.6
1/4	1791	3.7	10.8	460	60	8.6
1/2	1783	7.5	22.1	460	60	11.0
3/4	1774	11.3	33.3	460	60	14.5
Full Load	1765	15.0	44.5	460	60	18.1
O/L	1730	29.9	90.8	460	60	36.1

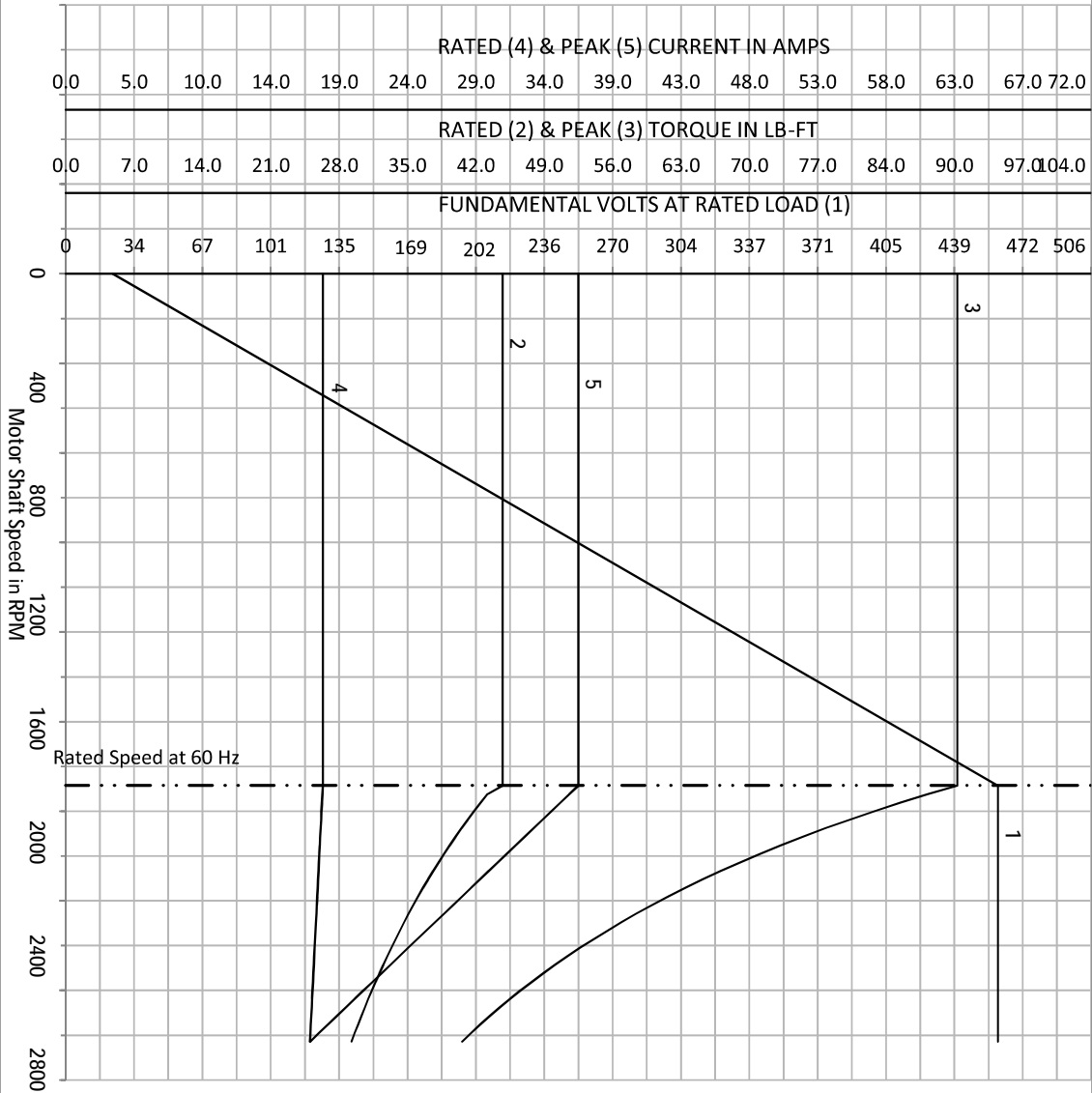
Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data  
Vector PWM Inverter Duty

 A MEMBER OF THE ABB GROUP	DR BY	BR	A-C MOTOR PERFORMANCE CURVES
	CK BY	BR	
	APP BY		
	DATE	10/31/2024	
			09WGT1597

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONNECTION OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	36.2/18.1	Base Volt	460	R1	0.296	X1	1.13
HP	15HP	NL AMPS	7.56	R2	0.238	X2	1.33
BASE SPEED	1765	Slips	1.166666667	XM			33.9000
PHASE/HZ	3/60	WK2 (lb-ft <sup>2</sup> )	1.92				

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

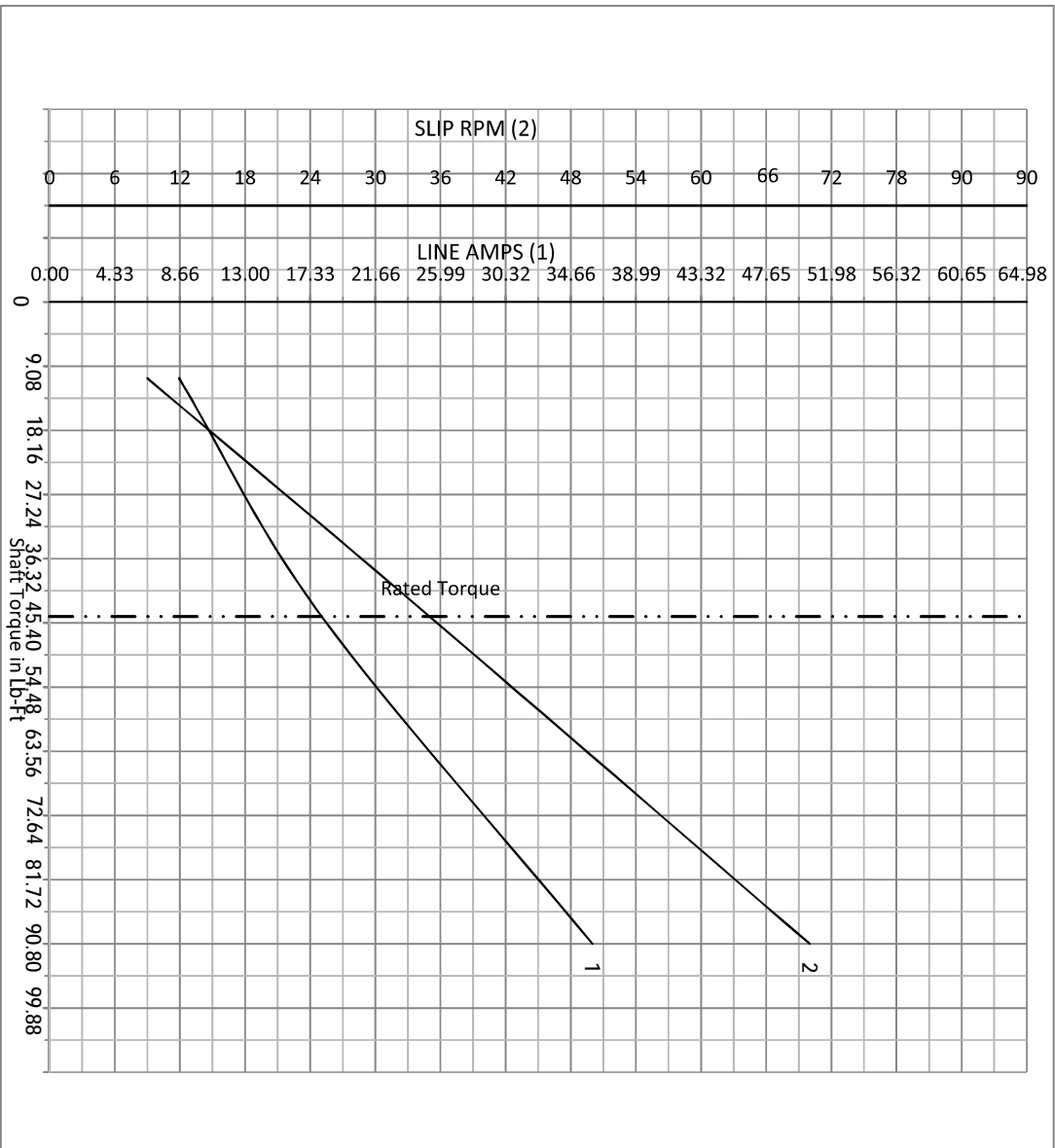


DR BY BR  
 CK BY BR  
 APP BY BR  
 DATE 10/31/2024

A-C MOTOR **09WGT1597**  
 PERFORMANCE CURVES

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONNECTION CT OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	36.2/18.1	Base Volt	460	R1	0.296	X1	1.13
HP	15HP	NL AMPS	7.56	R2	0.238	X2	1.33
BASE SPEED	1765	Slips	1.16666667			XM	33.9
PHASE/HZ	3/60	WK2 (lb-ft <sup>2</sup> )	1.92				

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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DATE	10/31/2024		





CD0005

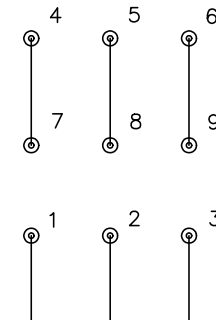


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS