



Customer information packet

ZDM2276T

54M 6P TEBC HOR 254TC T'STATS VECTOR

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	BLOWER
Current @ Voltage	10.700 A @ 460.0 V 21.400 A @ 230.0 V 25.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.7 a

Part detail

Revision	F
Type	AC
Mech. spec.	09T110
Base	
Status	PRD/A
Elec. spec.	09WGX827
Layout	09LYT110
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	03-13-2019

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5000 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	29.41 IN
Power Factor	71
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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

NP1168L									
CAT NO	ZDM2276T								
SPEC.	09T110X827Z1								
FRAME	254TC			HP	7.5 TE				
VOLTS	230/460								
MAG CUR	11/5.5				FLA	21.4/10.7			
RPM	1180		RPM MAX			5000			
HZ	60		PH	3		CLASS	H		
SER.F.	1.00		DES	A		SL HZ	1		
NEMA-NOM-EFF	91		WK2		4.34				
BLWR V	PH		HZ		A				
RATING	40C AMB-CONT								
DE BRG	6309		ODE BRG			6208			
CC	010A		SER.NO						
	1000:1 CT, 1000:1 VT								

NP VOLTS	230/460	MAX SAFE RPM	5000	WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 20C)		
NP AMPS	21.4/10.7	Base Volt	460	R1	0.473	X1 2.600
HP	7.5HP	NL AMPS	5.8	R2	0.384	X2 2.660
BASE SPEED	1180	Slips (Hz)	0.80	XM 43.300		
PHASE/HZ	3/60	WK ² (lb-ft ²)	4.34			

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1184	7.3	32.4	460	60	10.7
Max Speed	1775	7.3	21.6	460	90	9.8
Min Speed	0	0.0	32.4	22.16	0.80	10.7

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	5.8
1/4	1196	1.8	7.9	460	60	6.3
1/2	1192	3.7	16.4	460	60	7.5
3/4	1189	5.4	23.9	460	60	8.9
Full Load	1184	7.3	32.4	460	60	10.7
O/L	1164	14.6	65.8	460	60	20.0

Blower Data	Volts	Ph/Hz	FL Amps	L/R Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

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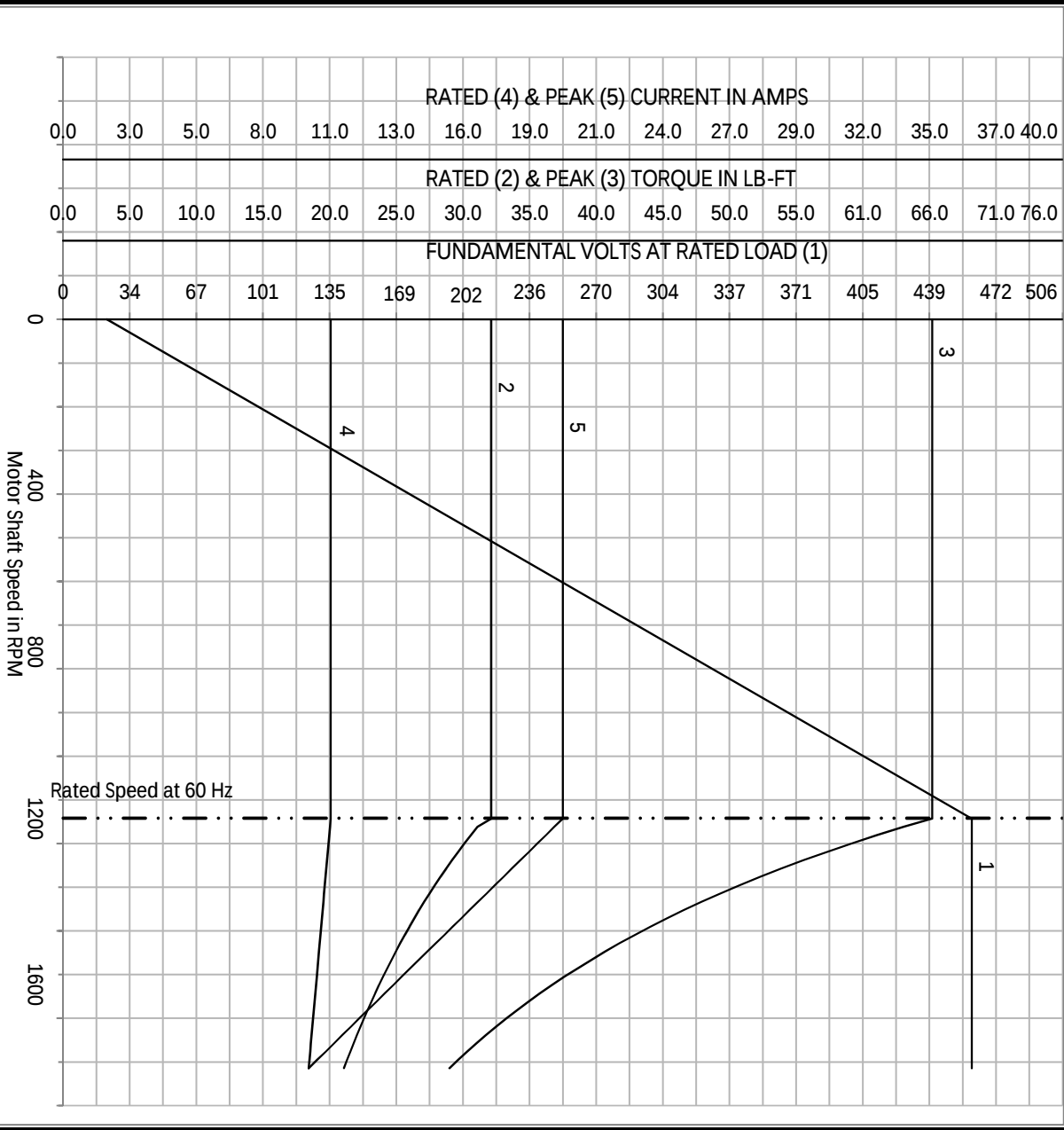
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NP VOLTS	230/460	MAX SAFE RPM	5000	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
NP AMPS	21.4/10.7	Base Volt	460	R1 0.473 X1 2.600
HP	7.5HP	NL AMPS	5.84	R2 0.384 X2 2.660
BASE SPEED	1180	Slips (Hz)	0.80	XM 43.300
PHASE/HZ	3/60	WK2 (lb-ft2)	4.34	

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data
Data Valid For Nameplate Speed Range only

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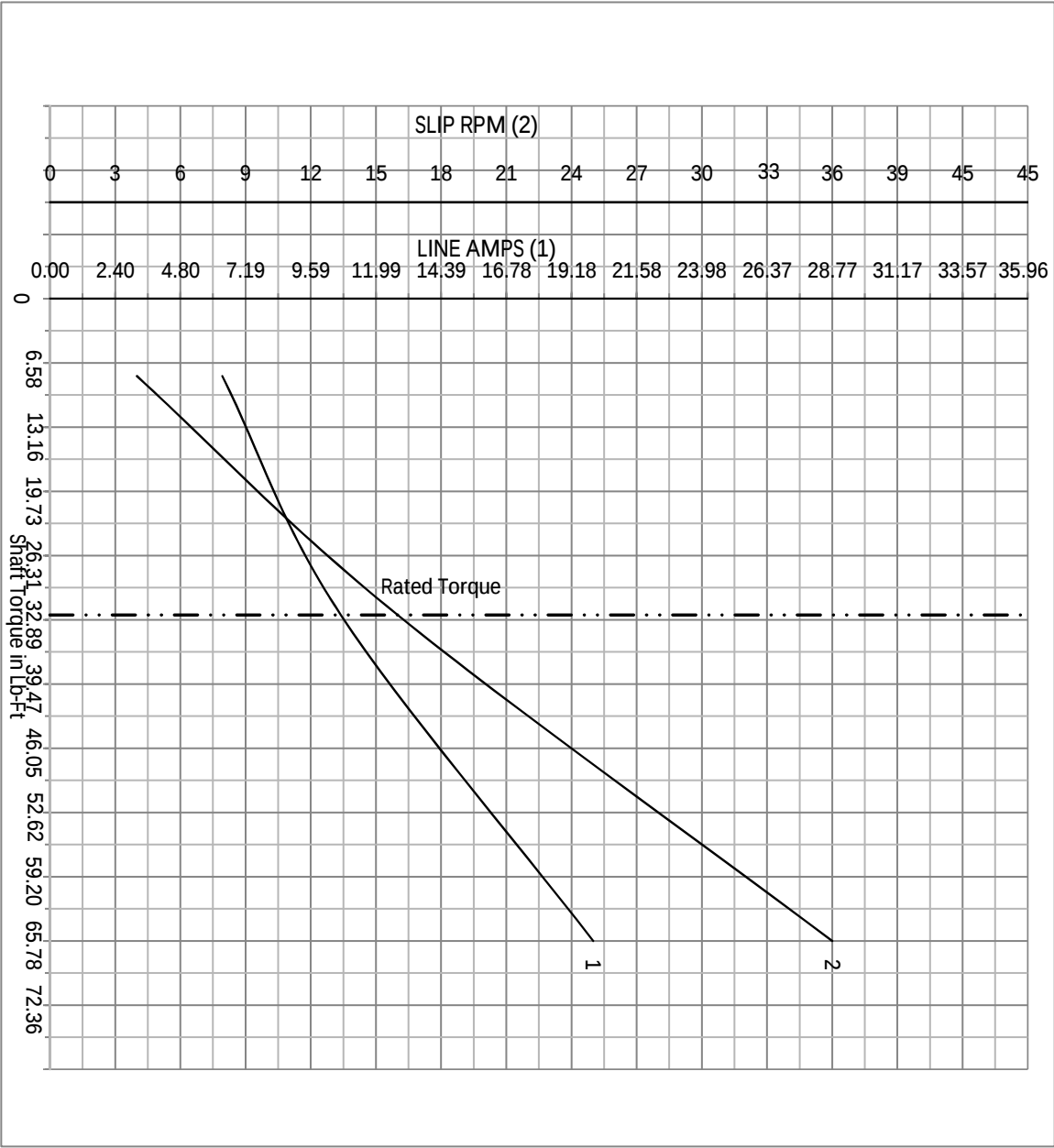
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