



Customer information packet

IDNM3584T

1.5HP, 1770RPM, 3PH, 60HZ, 143TC, 0530M, TENV

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145TC
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	1.500 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	4.600 A @ 230.0 V 2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	H

Part detail

Revision	C
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX543
Layout	05LYE534
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	72
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3855L									
CAT.NO.	IDNM3584T								
SPEC.	05E534X543G1								
FRAME	145TC		H.P.		1.5 TE				
VOLTS	230/460								
MAG. CUR.	2.58/1.29			F.L. AMPS			4.6/2.3		
R.P.M.	1770		R.P.M. MAX			6000			
HZ.	60		PH.		3		CLASS		H
SER.F.	1.00		DES.		B		SL HZ		1.03
NEMA NOM. EFF.	86.5		WK2		0.217				
BLOWER	V				PH		HZ		AMPS
RATING	40C AMB-CONT								
DE	6205		ODE		6203				
CC	010A		SN						
	1000:1 CT/VT								

NP VOLTS	230/460		WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 200C)				
NP AMPS	4.2/2.1	Base Volt	460	R1	5.320	X1	7.810
HP	1.5	NL AMPS	1.29	R2	2.080	X2	5.860
BASE SPEED	1769	Slip (HZ)	1.03			XM	197.000
PHASE/HZ	3/60	WK ² (lb-ft ²)	0.217				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1769	1.5	4.5	460	60	2.1
Max Speed	2653	1.5	3.0	460	90	1.9
CT Min Speed	1,769	0.002	4.5	0.46	0.06	2.1

Load Performance at Base Speed

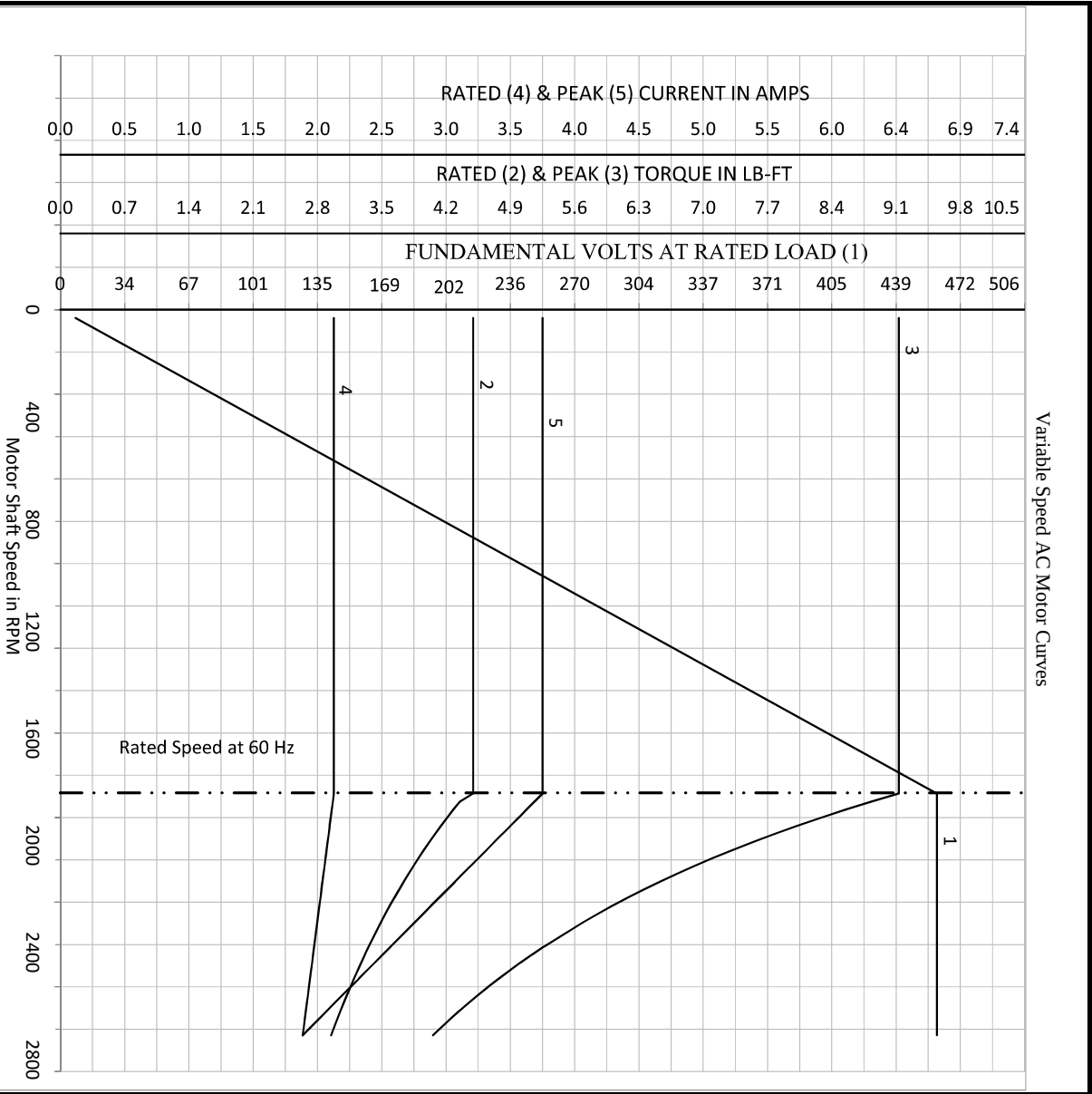
	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1798	0.0	0.0	460	60	1.3
1/4	1790	0.4	1.1	460	60	1.4
1/2	1783	0.8	2.3	460	60	1.5
3/4	1776	1.1	3.3	460	60	1.8
Full Load	1769	1.5	4.5	460	60	2.1
O/L	1740	3.0	9.1	460	60	3.7

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

Remarks: Calculated Data

DR BY USBRRANI				A-C MOTOR		05WGXS43
CK BY CD				PERFORMANCE		
APP BY USBRRANI				CURVES		
DATE 12/19/2023				Record: 82095		

NP VOLTS	230/460	WYE CONN EQ. CKT OHMS PER PHASE (BASE RATING, 20C)		
NP AMPS	4.2/2.1	R1	5.320	X1 7.810
HP	1.5	R2	2.080	X2 5.860
BASE SPEED	1769			XM 197.000
PHASE/HZ	3/60			
		Base Volt	460	
		NL AMPS	1.29	
		Slip (Hz)	1.03	
		WK ² (lb-ft ²)	0.217	



Calculated Data
Data Valid For Nameplate Speed Range only

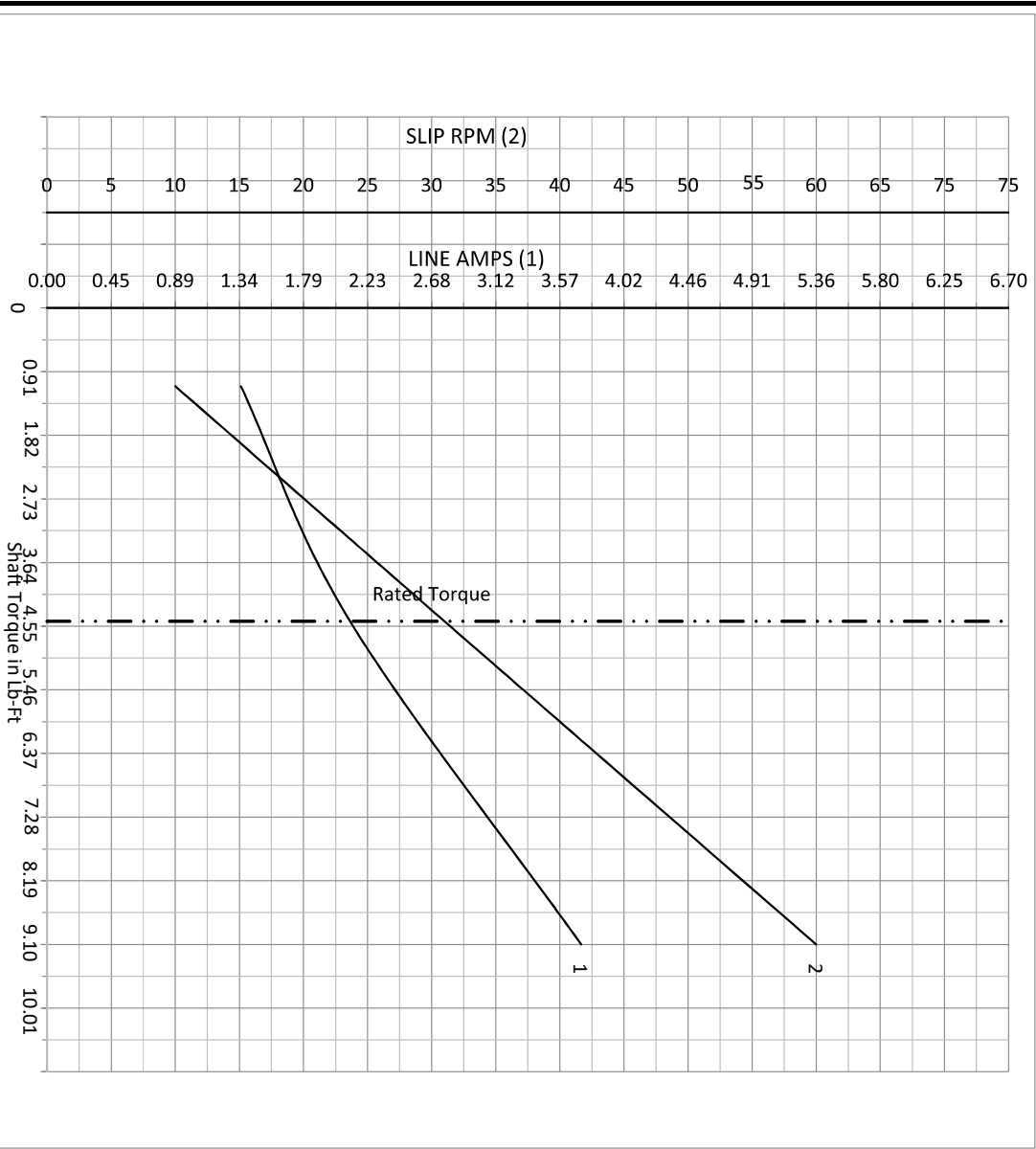
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CK BY CD
APP BY USBRRANI
DATE 12/19/2023

A-C MOTOR PERFORMANCE CURVES
05WGX543
Record: 82095

NP VOLTS	230/460	0	0	WYE CONN. EQ. CKT. OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	4.2/2.1	Base Volt	460	R1	5.320	X1	7.810
HP	1.5	NL AMPS	1.29	R2	2.080	X2	5.860
BASE SPEED	1769	Slip (HZ)	1.03	XM			
PHASE/HZ	3/60	WK2 (lb-ft/2)	0.217	197.000			

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
05 WGX543
Record: 82095

