



Product Information Packet

IDM3581T

1HP,1765RPM,3PH,60HZ,143TC,0524M,TEBC,F1

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WGX014	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	05E535	Layout:	05LYE535	Poles:	04	Created Date:	07-27-2007
Base:	RG	Eff. Date:	05-05-2017	Leads:	9#18		

Specs			
Catalog Number:	IDM3581T	Insulation Class:	H
Enclosure:	TEBC	Inverter Code:	Inverter Duty
Frame:	143TC	KVA Code:	N
Frame Material:	Iron	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	0524M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	70
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	115V 1-Phase EXT	Shaft Extension Location:	Pulley End
Current @ Voltage:	1.500 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	3.000 A @ 230.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	Shaft Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Encoder/Feedback Device	Thermal Device - Winding:	Normally Closed Thermostat
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1163L

CAT NO	IDM3581T										
SPEC.	05E535X014G1										
FRAME	143TC					HP	1	TE			
VOLTS	230/460										
MAG CUR	2/1					FLA	3/1.5				
RPM	1765					RPM MAX	6000				
HZ	60					PH	3			CLASS	H
SER.F.	1.00					DES	B			SL HZ	1.2
NEMA-NOM-EFF	87.5					WK2	0.14				
BLWR V	115			PH	1	HZ	60		A	.4	
RATING	40C AMB-CONT										
DE BRG	6205					ODE BRG	6203				
CC	010A			SN							

Parts List		
Part Number	Description	Quantity
SA161377	SA 05E535X014G1	1.000 EA
RA149932	RA 05E535X014G1	1.000 EA
06CB3000	BALDOR CONDUIT BOX CAST	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
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	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
35EP1100B21	FRONT TEBC 203 BRG W/ GREASER & THRU-SHA	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1329A01	PU EP ENCL 143-5TC 205 BRG W/GRSR & STD	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 EA
HA3218A04	MALE-FEMALE STANDOFF .25-.20 .38 HEX	3.000 EA
10XN2520A04	1/4-20 X 1/4 HEX HD MACH SCREW	3.000 EA
HW1003A25	WASHER, 1/4 EX TH LK, ZN X	3.000 EA
06CB3500	BALDOR CONDUIT BOX LID	1.000 EA
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 EA
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
05FH5001A03	BLOWER KIT,05FH4002,EF0008,35CB3002	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.022 GA
LC0035B01	1PH, SV, FIX, 2 LEAD	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1163L	ALUM INV UL CSA CC	1.000 EA
G7PA1000	PKG GRP, PRINT PK1034A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Page 1 of 1



AC Induction Motor Performance Data

Record # 36456

Typical performance - not guaranteed values

Winding: 05WG X014	Type: 0524M	Enclosure: TEBC
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Nameplate Data			General Characteristics at 460 V, 60 Hz: High Volt Connection			
Rated Output (HP)	1		Full Load Torque	2.99 LB-FT		
Volts	230/460		Start Configuration	DOL		
Full Load Amps	3/1.5		Break Down Torque	15.8 LB-FT		
R.P.M.	1765		Pull-Up Torque	9.1 LB-FT		
Hz	60	Phase	Locked-rotor Torque	11 LB-FT		
NEMA Design Code	B	KVA Code	Starting Current	15 Amps		
Service Factor	1		No-load Current	1.02 Amps		
NEMA Nom. Eff.	87.5	P.F.	Line-line Res. @ 25°C.	12 Ohms		
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	21°C		
S.F. Amps			Temp. Rise @ S.F. Load			

Load Characteristics at 460 Volts, 60 Hz, 1 HP

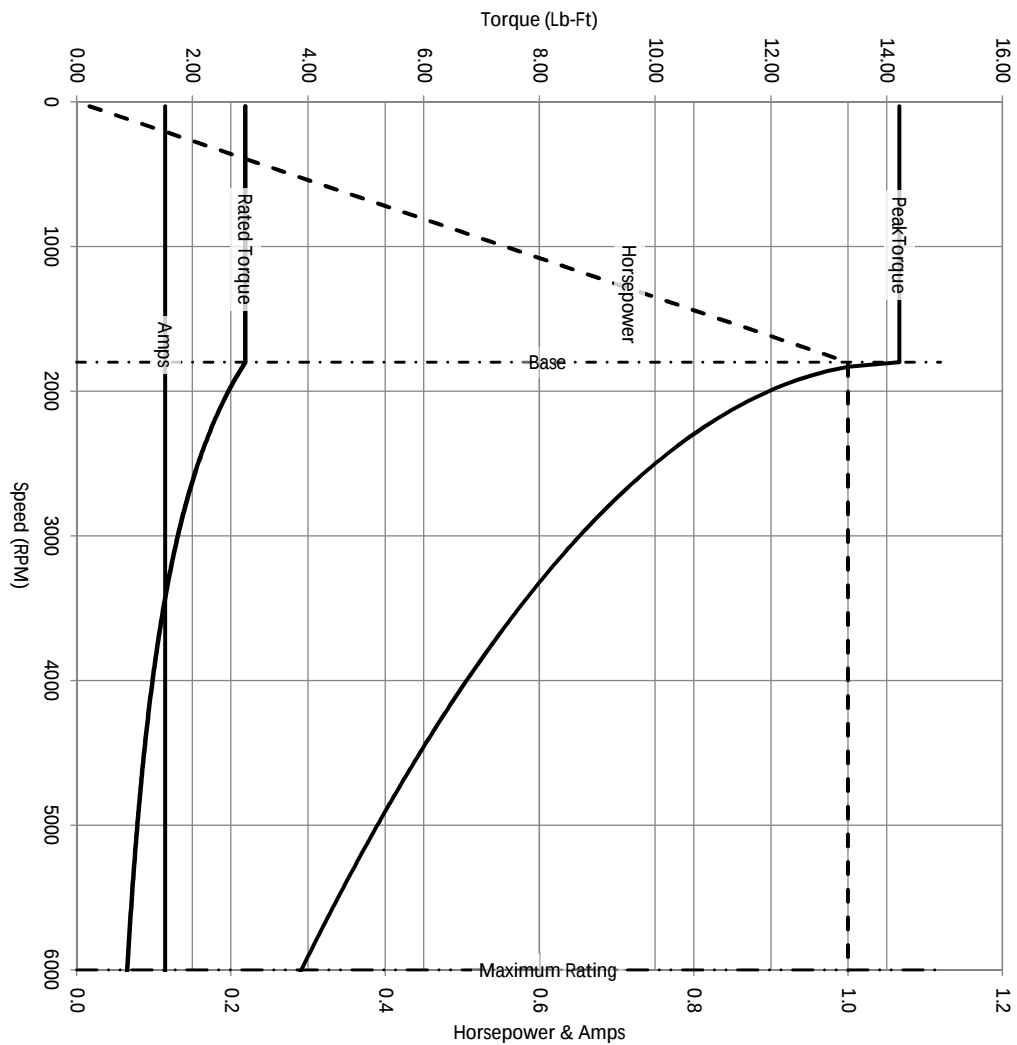
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	48	60	70	76	81	
Efficiency	74.2	83.6	86.7	87.9	87.4	87.1	
Speed	1793	1785	1778	1770	1761	1753	
Line Amperes	1.07	1.18	1.33	1.53	1.76	2	

Baldor Electric Company Fort Smith, Arkansas

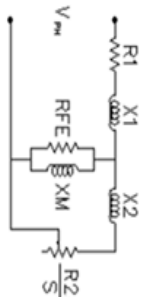


2/26/2013

Catalog	IDM3S81T	NP VOLTS	230/460	ENCLOSURE	TEEC	W/E CONN EQ CXT OHMS PER PHASE (BASE EATING, 20C)			
FRAME	143TC	NP AMPS	3/1.5	Base Volts	460	R1	5.850	X1	11.127
HP	1 HP	DUTY	Cont	Base AMPS	1.53	R2	3.540	X2	9.285
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.00			XM	254.657
PHASE/HZ	3/60	AMB°C/INSUL	40/H	WK ² (lb-ft ²)	0.142				



Remarks: Calculated Data



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DR BY	<u>ENR</u>
CK BY	
APP BY	<u>ENR</u>
DATE	<u>2/26/2013</u>

A-C MOTOR PERFORMANCE CURVES

05E535X014G1

