



Product Information Packet

EM3581T

1HP,1760RPM,3PH,60HZ,143T,0520M,TEFC,F1

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	05WGX508	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	05C001	Layout:	05LYC001	Poles:	04	Created Date:	01-15-2019
Base:	RG	Eff. Date:	07-14-2022	Leads:	9#18		

Specs			
Catalog Number:	EM3581T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	143T	IP Rating:	NONE
Frame Material:	Iron	KVA Code:	L
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	1.000 HP @ 60 HZ	Locked Bearing Indicator:	No 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:	0518M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	71
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT

Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	3.100 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	3.000 A @ 230.0 V	Shaft Rotation:	Reversible
	1.500 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	EM3581T										
SPEC	05C001X508G1										
HP	1										
VOLTS	230/460										
AMPS	3.26/1.63										
RPM	1760										
FRAME	143T				HZ	60				PH	3
SF	1.15		CODE	N	DES	B		CLASS	F		
NEMA NOM. EFF	85.5			PF	67						
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V						3.2	
ENCL	TEFC		SER								
DE	6205			ODE	6203						
VPWM INVERTER READY	SFA 3.52/1.76										
CT6-60H(10:1)VT3-60H(20:1											
	50HZ 1HP 190/380V 3.6/1.8A										

AC Induction Motor Performance Data

Record # 82131

Typical performance - not guaranteed values

Winding: 05WGX508-R001			Type: 0520M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		2.979 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.2-3.2/1.6	Breakdown Torque		13.9 LB-FT		
R.P.M.		1760	Pull-up Torque		8 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		9.18 LB-FT		
NEMA Design Code		B	KVA Code		N	Starting Current	14.4 A
Service Factor (S.F.)		1.15	No-load Current		1.11 A		
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C	16.215 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		24°C		
S.F. Amps			Temp. Rise @ S.F. Load		28°C		
			Locked-rotor Power Factor		62		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	59	68	74	79	72
Efficiency	71.2	81.4	84.6	85.5	85.4	84.7	85.4
Speed	1791.4	1784.2	1776.7	1768.6	1760	1750.7	1763
Line amperes	1.14	1.25	1.41	1.61	1.84	2.11	1.75

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





