



Product Information Packet

EM4100T

15HP,1175RPM,3PH,60HZ,284T,1046M,TEFC,F1

Part Detail							
Revision:	X	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY561	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10C151	Layout:	10LYC151	Poles:	06	Created Date:	05-17-2010
Base:	RG	Eff. Date:	02-21-2022	Leads:	9#10		

Specs			
Catalog Number:	EM4100T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	284T	Inverter Code:	Not Inverter
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	15.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 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:	1046M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	73
	CSA EEV	Product Family:	General Purpose
	CSA	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)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	21.000 A @ 460.0 V	Shaft Rotation:	Reversible
	42.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
	42.000 A @ 230.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3443LUA

CAT.NO.	EM4100T			CUST. P/N				ENCL	TEFC
SPEC.	10C151Y561G1		CC	010A	FRAME	284T		SER.NO.	
HP	15		CLASS	F	HZ	60			
R.P.M.	1175		PH.	3	DES.	A			
VOLTS	230/460			CODE	H	ODE BRG	6309	DE BRG	6311
AMPS	42/21			USABLE AT 208V	42				
RATING	40C AMB-CONT			NEMA NOM. EFF.	91.7		GREASE	POLYREX EM	
P.F.	73	SER.F.	1.15		CT6-60H(10:1)VT3-60H(20:1)				
USABLE AT	50Hz 15HP 190/380V 48/24A				SF1.0				
VOLTS		AMPS		MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 29743

Typical performance - not guaranteed values

Winding: 10WGY561-R001				Type: 1046M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15		Full Load Torque		66.5 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		42/21		Breakdown Torque		195 LB-FT		
R.P.M.		1175		Pull-up Torque		91.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		115 LB-FT		
NEMA Design Code		A		KVA Code	H		Starting Current	125 A
Service Factor (S.F.)		1.15		No-load Current		11.3 A		
NEMA Nom. Eff.		91.7	Power Factor	73		Line-line Res. @ 25°C		0.56099 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		49°C
S.F. Amps						Temp. Rise @ S.F. Load		59°C
						Locked-rotor Power Factor		33
						Rotor inertia		5.63 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	54	66	73	76	77	75
Efficiency	85	90.6	91.8	92	91.5	91.3	91.7
Speed	1197	1193	1188.7	1183.9	1179	1177.5	1181
Line amperes	12.2	14.3	17.3	20.8	25.1	26.1	23.4

Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values





