

BALDOR® • RELIANCE

Product Information Packet

EM4100T

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

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1046M	Elec. Spec:	10WGY561	CD Diagram:	CD0180
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	10C151	Layout:	10LYC151
Frame:	284T	Mounting:	F1	Poles:	06	Created Date:	05-17-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-04-2017
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3443LUA

CAT.NO.	EM4100T		P/N			ENCLOSURE	TEFC	
SPEC.	10C151Y561G1	CC	010A	FRAME	284T	S/N		
HP	15		CLASS	F	HZ	60		
RPM	1175		PH	3	DES	A		
VOLT	230/460		KVA-CODE	H		ODE BRG	6309	DE BRG
AMP	42/21		USABLE AT 208V	42				
RATING	40C AMB-CONT		NEMA-NOM-EFF	91.7		GREASE	POLYREX EM	
PF	73	SER.F.	1.15					
USABLE AT	50Hz 15HP 190/380V 48/24A					SF1.0		
HTR-VOLTS		HTR-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-FT ²

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





