

BALDOR® • RELIANCE

Product Information Packet

EM2539T

40HP,1770RPM,3PH,60HZ,324T,4064M,OPSB,F1

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	4064M	Elec. Spec:	40WGX166	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	40J002	Layout:	40LYJ002
Frame:	324T	Mounting:	F1	Poles:	04	Created Date:	10-22-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-13-2017
Leads:	9#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3554L

CAT.NO.	EM2539T		P/N			ENCLOSURE	OPSB		
SPEC.	40J002X166G1	CC	010A	FRAME	324T	S/N			
HP	40		CLASS	F	HZ	60			
RPM	1770		PH	3	DES	A			
VOLT	230/460		KVA-CODE	H		ODE BRG	6309	DE BRG	6312
AMP	98/49		USABLE AT 208V		99				
RATING	40C AMB-CONT		NEMA-NOM-EFF		94.1	GREASE	POLYREX EM		
PF	82	SER.F.	1.15	VPWM INVERTER READY					
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 31313 - Typical performance - not guaranteed values

Winding: 40WGX166-R002	Type: 4064M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	40			Full Load Torque	119 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	98/49			Breakdown Torque	427 LB-FT
R.P.M.	1770			Pull-up Torque	187 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	246 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	330 A
Service Factor (S.F.)	1.15			No-load Current	21.1 A
NEMA Nom. Eff.	94.1	Power Factor	82	Line-line Res. @ 25°C	0.16236 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	41°C
S.F. Amps				Temp. Rise @ S.F. Load	51°C
				Locked-rotor Power Factor	32
				Rotor inertia	5.09 LB-FT ²

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	82	85	85	84
Efficiency	91.1	94	94.5	94.2	93.6	92.8	93.8
Speed	1792.4	1785	1777.8	1770.2	1762.1	1752.8	1765
Line amperes	24.1	30.7	39.2	48.7	59.3	71.3	55.1

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values





