



Product Information Packet

EM2538T

40HP,3540RPM,3PH,60HZ,286TS,4046M,OPSB,F

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX194	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	40G51	Layout:	40LYG051	Poles:	02	Created Date:	10-15-2010
Base:	RG	Eff. Date:	04-29-2019	Leads:	9#8		

Specs			
Catalog Number:	EM2538T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	286TS	IP Rating:	NONE
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	40.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	CSA	Motor Type:	4046M
	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	89
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	92.000 A @ 230.0 V	Shaft Extension Location:	Pulley End

	46.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	100.000 A @ 208.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No 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:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3554LUA

CAT.NO.	EM2538T			P/N				ENCL	OPSB			
SPEC.	40G051X194		CC	010A		FRAME	286TS		SER.NO.			
HP	40		CLASS	F		HZ	60					
RPM	3530		PH	3		DES	B					
VOLTS	230/460			CODE	G		ODE BRG	6309		DE BRG	6311	
AMPS	92/46		USABLE AT 208V	100								
RATING	40C AMB-CONT			NEMA-NOM-EFF	92.4		GREASE	POLYREX EM				
PF	89		SER.F.	1.15								
USABLE AT	50HZ 40HP 190/380V 112/56A					SF 1.0						
HTR-VOLTS			HTR-AMPS			MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 32915

Typical performance - not guaranteed values

Winding: 40WGX194-R001				Type: 4046M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		60.3 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		92/46		Breakdown Torque		207 LB-FT	
R.P.M.		3530		Pull-up Torque		74.8 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1.15		No-load Current		11.7 A	
NEMA Nom. Eff.		92.4		Power Factor		89	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	89	90	90	90
Efficiency	91.4	93.6	93.6	92.9	91.9	90.6	92.4
Speed	3581	3565	3547	3527	3505	3481	3514
Line amperes	16.4	24.9	34.7	45.9	57	69.7	52.6

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





