



Product Information Packet

EM2531T

25HP,1775RPM,3PH,60HZ,284T,4050M,OPSB,F1

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX806	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	40G48	Layout:	40LYG048	Poles:	04	Created Date:	11-19-2020
Base:	RG	Eff. Date:	06-07-2022	Leads:	9#10		

Specs			
Catalog Number:	EM2531T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	284T	IP Rating:	NONE
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	25.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 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:	4050M
	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	82
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:	64.000 A @ 208.0 V	Shaft Extension Location:	Pulley End

	60.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	30.000 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	A	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 NP4295L

CAT.NO.	EM2531T												
SPEC.	40G048X806									IP	23		
HP	25HP/18.5KW//20HP/15KW												
VOLTS	230/460//190/380-415												
AMPS	60/30//58/29-30												
R.P.M. (1/MIN)	1775//1475												
FRAME	284T				HZ	60//50					PH	3	
SER.F.	1.15		CODE	G	DES.	A				CLASS	F		
NEMA NOM. EFF.	93.6//92.1				P.F.	82							
RATING	40C AMB-CONT								WT.	171			
CC	010A			USABLE AT 208V							64		
ENCL	OPSB		SN										
DE	6311				ODE	6309							
	IE3-60:93.8(75%)93.1(50%)												
	IE3-50:93.2(75%)92.2(50%)												
	IC01 2:1 CT/20:1 VT												

AC Induction Motor Performance Data

Record # 92775

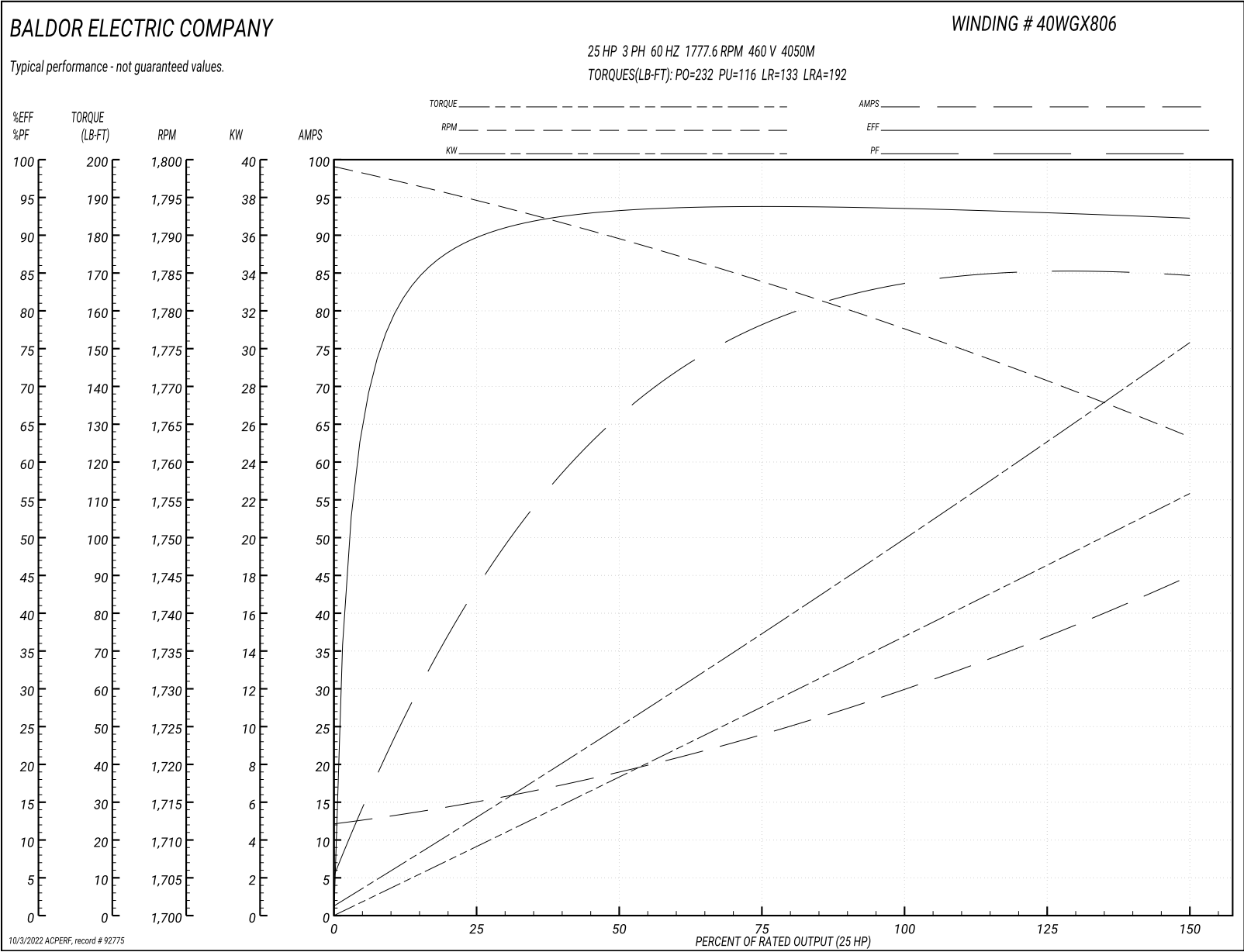
Typical performance - not guaranteed values

Winding: 40WGX806-R004			Type: 4050M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25//20		Full Load Torque		73.81 LB-FT		
Volts		230/460//190/380-415		Start Configuration		direct on line		
Full Load Amps		60/30//58/29-30		Breakdown Torque		232 LB-FT		
R.P.M.		1775//1475		Pull-up Torque		116 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		133 LB-FT	
NEMA Design Code		A		KVA Code	G	Starting Current		192 A
Service Factor (S.F.)		1.15		No-load Current		12.6 A		
NEMA Nom. Eff.		93.6	Power Factor		82	Line-line Res. @ 25°C		0.35407 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C		
S.F. Amps				Temp. Rise @ S.F. Load		34°C		
				Locked-rotor Power Factor		34.7		
				Rotor inertia		3.96 lb-ft²		

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	82	85	85	84
Efficiency	89.4	93.1	93.8	93.6	93	92.1	93.2
Speed	1794.8	1789.5	1783.7	1777.6	1771	1763.2	1774
Line amperes	14.5	18.6	24.1	30.3	37.2	44.6	34.4

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 92776

Typical performance - not guaranteed values

Winding: 40WGX806-R004			Type: 4050M		Enclosure: OPSB		
Nameplate Data			415 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		25//20	Full Load Torque		70.85 LB-FT		
Volts		230/460//190/380-415	Start Configuration		direct on line		
Full Load Amps		60/30//58/29-30	Breakdown Torque		267 LB-FT		
R.P.M.		1775//1475	Pull-up Torque		144 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		165 LB-FT	
NEMA Design Code		A	KVA Code	G	Starting Current		202 A
Service Factor (S.F.)		1.15		No-load Current		15.76 A	
NEMA Nom. Eff.		93.6	Power Factor	82	Line-line Res. @ 25°C		0.335 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C	
S.F. Amps				Temp. Rise @ S.F. Load		32°C	
				Locked-rotor Power Factor		38.7	
				Rotor inertia		3.96 lb-ft²	

Load Characteristics 415 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	56	68	75	80	82	78
Efficiency	87.8	92.2	93.2	93.1	92.7	92	92.9
Speed	1496	1491	1487	1482	1477	1471	1479
Line amperes	17.19	20.25	24.53	29.5	35.11	41.13	32.9

Performance Graph at 415V, 50Hz, 20.0HP Typical performance - Not guaranteed values

