

BALDOR® • RELIANCE 

Product Information Packet

EM2531T-8

25HP, 1770RPM, 3PH, 60HZ, 284T, 4050M, OPSB, F1

Part Detail							
Revision:	T	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX796	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	40G48	Layout:	40LYG048	Poles:	04	Created Date:	01-22-2013
Base:	RG	Eff. Date:	01-12-2021	Leads:	6#6		

Specs			
Catalog Number:	EM2531T-8	IP Rating:	NONE
Enclosure:	OPSB	KVA Code:	G
Frame:	284T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	25.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 6 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	UR	Motor Type:	4050M
	CSA EEV	Mounting Arrangement:	F1
	CSA	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:	70.000 A @ 200.0 V	Shaft Extension Location:	Pulley End
Design Code:	A	Shaft Ground Indicator:	No Shaft Grounding
Drip Cover:	No Drip Cover	Shaft Rotation:	Reversible

Duty Rating:	CONT	Shaft Slinger Indicator:	No Slinger
Electrically Isolated Bearing:	Not Electrically Isolated	Speed Code:	Single Speed
Feedback Device:	NO FEEDBACK	Motor Standards:	NEMA
Front Face Code:	Standard	Starting Method:	Part Winding
Front Shaft Indicator:	None	Thermal Device - Bearing:	None
Heater Indicator:	No Heater	Thermal Device - Winding:	None
Insulation Class:	F	Vibration Sensor Indicator:	No Vibration Sensor
Inverter Code:	Inverter Ready	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3554L											
CAT.NO.	EM2531T-8			P/N				ENCL	OPSB		
SPEC.	40G048X796		CC	010A		FRAME	284T		SER.NO.		
HP	25		CLASS	F		HZ	60				
RPM	1770		PH	3		DES	A				
VOLTS	200			CODE	G		ODE BRG	6309		DE BRG	6311
AMPS	70			USABLE AT 208V							
RATING	40C AMB-CONT			NEMA-NOM-EFF	93.6		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 # 41057

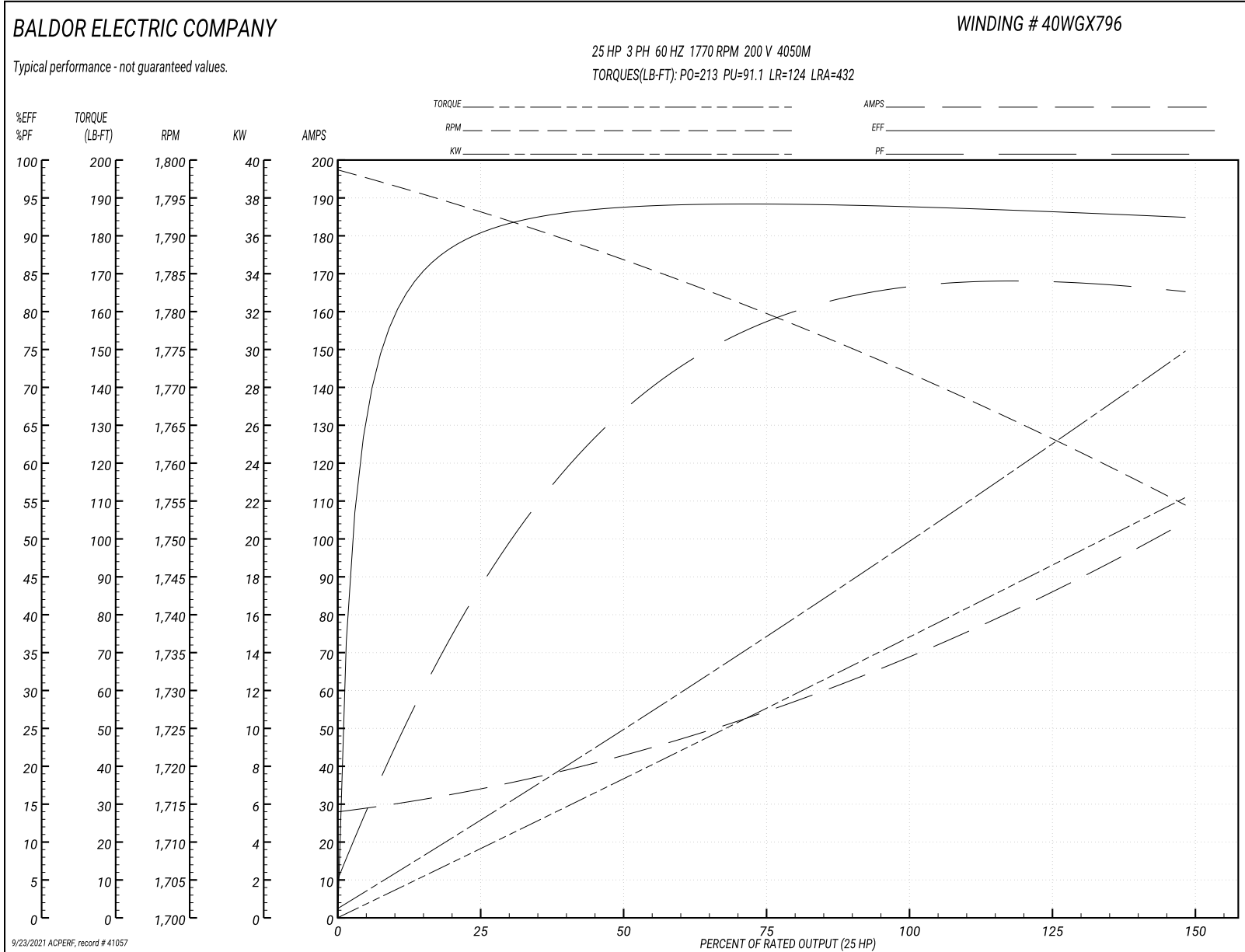
Typical performance - not guaranteed values

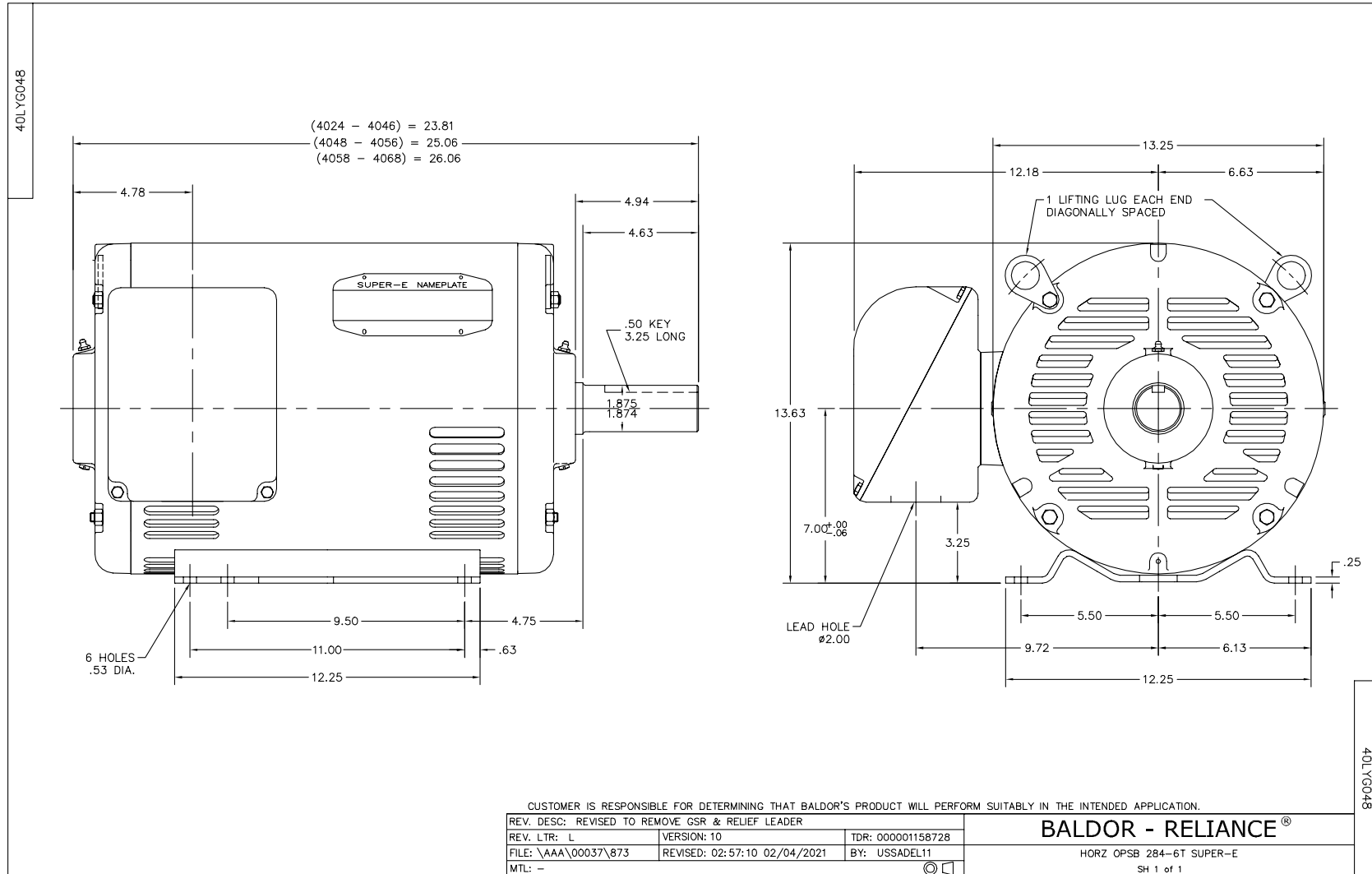
Winding: 40WGX796-R001		Type: 4050M		Enclosure: OPSB	
Nameplate Data			200 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	25	Full Load Torque	74.1 LB-FT		
Volts	200	Start Configuration	direct on line		
Full Load Amps	70	Breakdown Torque	213 LB-FT		
R.P.M.	1770	Pull-up Torque	91.1 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	124 LB-FT	
NEMA Design Code	B KVA Code	G	Starting Current	432 A	
Service Factor (S.F.)	1.15	No-load Current	29 A		
NEMA Nom. Eff.	93.6	Power Factor	82	Line-line Res. @ 25°C	0.0619 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	33°C	
S.F. Amps			Temp. Rise @ S.F. Load	40°C	
			Locked-rotor Power Factor	33	
			Rotor inertia	3.96 LB-FT ²	

Load Characteristics 200 V, 60 Hz, 25 HP

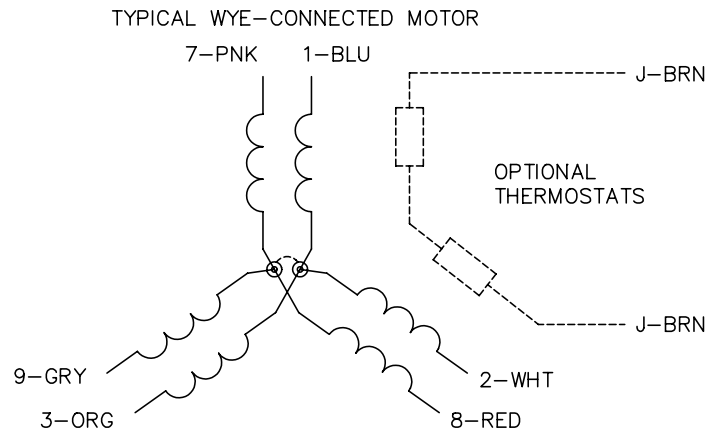
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	82	84	83	83
Efficiency	89.6	93	93.8	93.6	93.1	92.3	93.3
Speed	1793	1786	1780	1772	1764	1754	1767
Line amperes	32.7	42.4	55	69.9	85.7	104	79.4

Performance Graph at 200V, 60Hz, 25.0HP Typical performance - Not guaranteed values

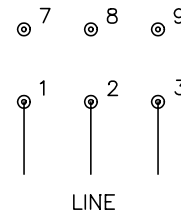




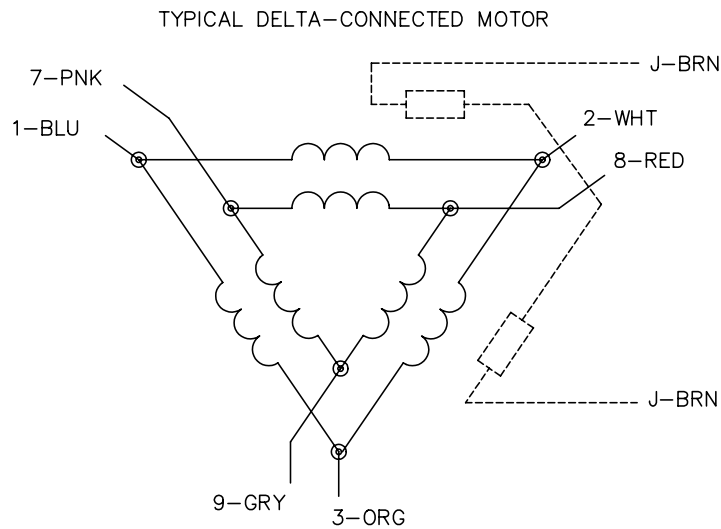
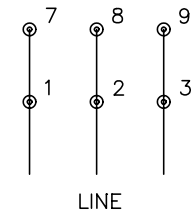
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C BY: JLP

REVISED: 01/21/99 3:19

TDR: 0171435

9690D0

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695