



Customer information packet

EM2531T-5

25HP, 1760RPM, 3PH, 60HZ, 284T, 4046M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	284T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	24.500 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.5 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	X
Type	AC
Mech. spec.	40G48
Base	
Status	PRD/A
Elec. spec.	40WGX795
Layout	40LYG048
Eff. date	06-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	01-22-2013

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4050M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.06 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554L											
CAT.NO.	EM2531T-5			P/N						ENCL	OPSB
SPEC.	40G048X795	CC	010A	FRAME		284T	SER.NO.				
HP	25		CLASS		F	HZ	60				
RPM	1770		PH	3	DES		A				
VOLTS	575			CODE		G	ODE BRG	6309	DE BRG	6311	
AMPS	24.5										
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.									

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 41056

Typical performance - not guaranteed values

Winding: 40WGX795-R001			Type: 4050M		Enclosure: OPSB	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		25		Full Load Torque		74 LB-FT
Volts		575		Start Configuration		direct on line
Full Load Amps		24.5		Breakdown Torque		220 LB-FT
R.P.M.		1770		Pull-up Torque		94.1 LB-FT
Hz		60		Phase		3
NEMA Design Code		B		KVA Code		G
Service Factor (S.F.)		1.15		No-load Current		155 A
NEMA Nom. Eff.		93.6		Power Factor		82
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 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	77	82	83	83	82
Efficiency	89.6	93	93.8	93.6	93.1	92.3	93.3
Speed	1793	1787	1780	1773	1765	1755	1768
Line amperes	11.8	15.1	19.4	24.5	29.9	36	27.7

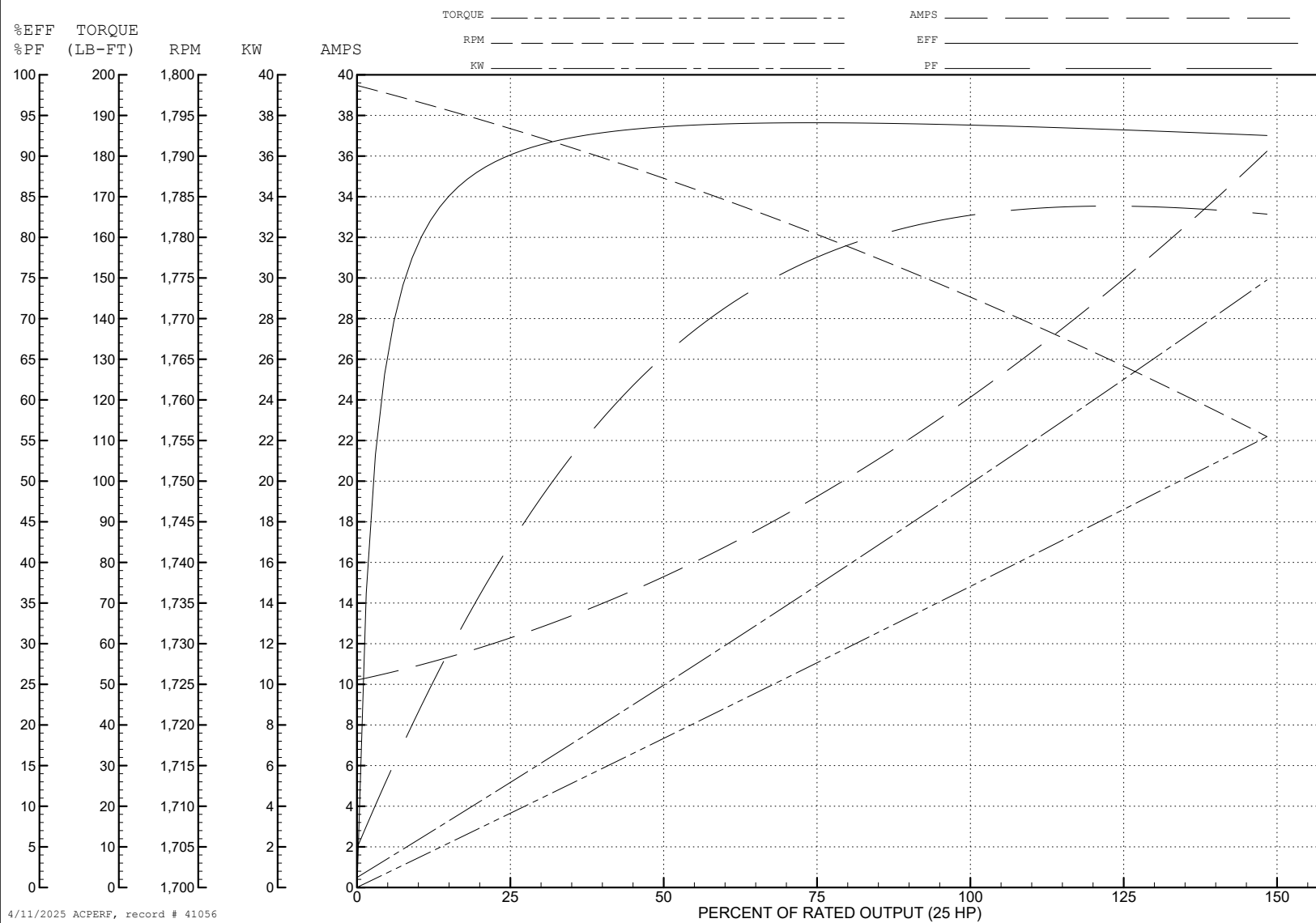
ABB Motors and Mechanical Inc.

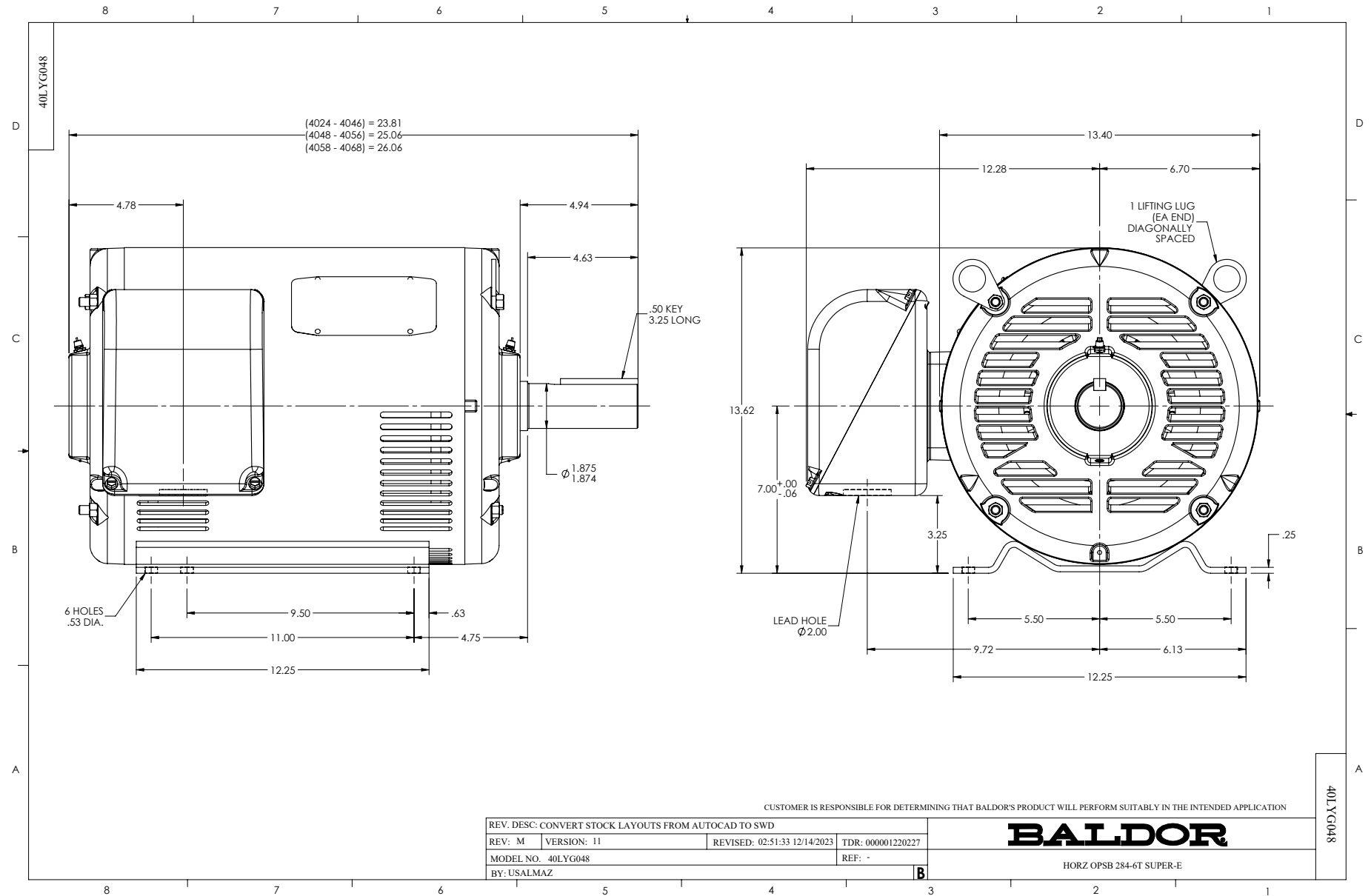
WINDING # 40WGX795

Typical performance - not guaranteed values.

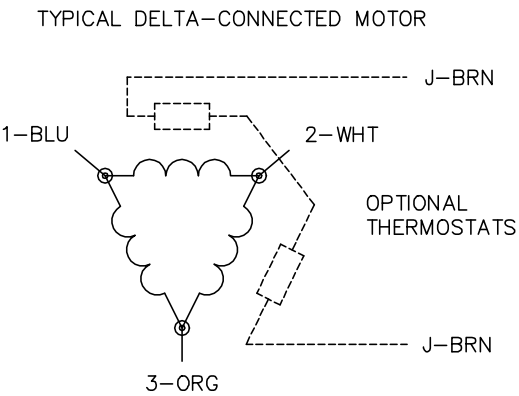
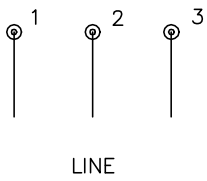
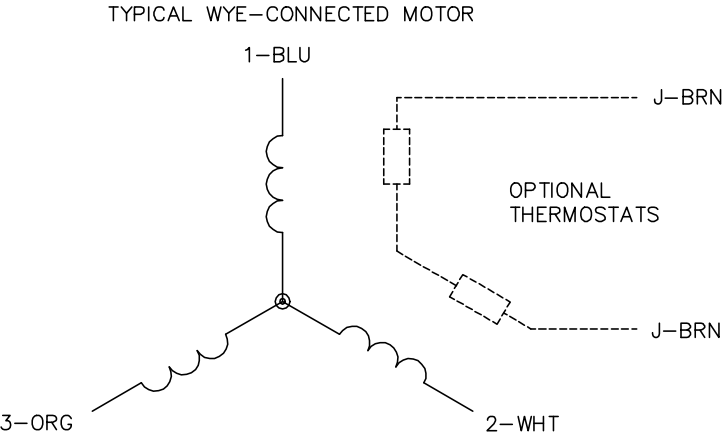
25 HP 3 PH 60 HZ 1770 RPM 575 V 4050M

TORQUES (LB-FT): PO=220 PU=94.1 LR=128 LRA=155





CD0006



- NOTES:
- 1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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