

BALDOR® • RELIANCE 

Product Information Packet

EHM2531T-8

25HP, 1770RPM, 3PH, 60HZ, 284T, 4046M, OPSB, F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX796	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	40J098	Layout:	40LYJ098	Poles:	04	Created Date:	01-22-2013
Base:	RG	Eff. Date:	05-04-2018	Leads:	6#6		

Specs			
Catalog Number:	EHM2531T-8	KVA Code:	G
Enclosure:	OPSB	Lifting Lugs:	Standard Lifting Lugs
Frame:	284T	Locked Bearing Indicator:	No Locked Bearing
Frame Material:	Steel	Motor Lead Quantity/Wire Size:	6 @ 6 AWG
Output @ Frequency:	25.000 HP @ 60 HZ	Motor Lead Exit:	Ko Box
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Termination:	Flying Leads
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Type:	4050M
Agency Approvals:	UR	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 (OLD)
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 NP2094E06B03	
CAT.NO.	EHM2531T-8
SPEC.	40J098X796G1
HP	25
VOLTS	200
AMPS	70
RPM	1770
FRAME	284T
	HZ 60
	PH 3
SER.F.	1.15
	CODE G
	DES A
	CL F
NEMA-NOM-EFF	93.6
	PF 82
RATING	40C AMB-CONT
CC	010A
	USABLE AT 208V
DE	6311
	ODE 6309
AUTO	
	MANUAL
	NONE
ENCL	OPSB
	SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA257342	SA 40J098X796G1	1.000 EA
RA244128	RA 40J098X796G1	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
40CB4000A01	CONDUIT BOX 40, STAMPED	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
40EP3200A02	STD FREP OPEN 309 BRG	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP3200B31	PUEP OPEN 311 BRG W/SH GND MTG	1.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	2.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
39CB4500A01	CONDUIT BOX LID 39, STAMPED, W/ PRIMER	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
HA3154A04	THRUBOLT STUD 3/8-16 X 18.750	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.070 GA
LC0695	CONNECTION LABEL	1.000 EA
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA

AC Induction Motor Performance Data

Record # 41057 - Typical performance - not guaranteed values

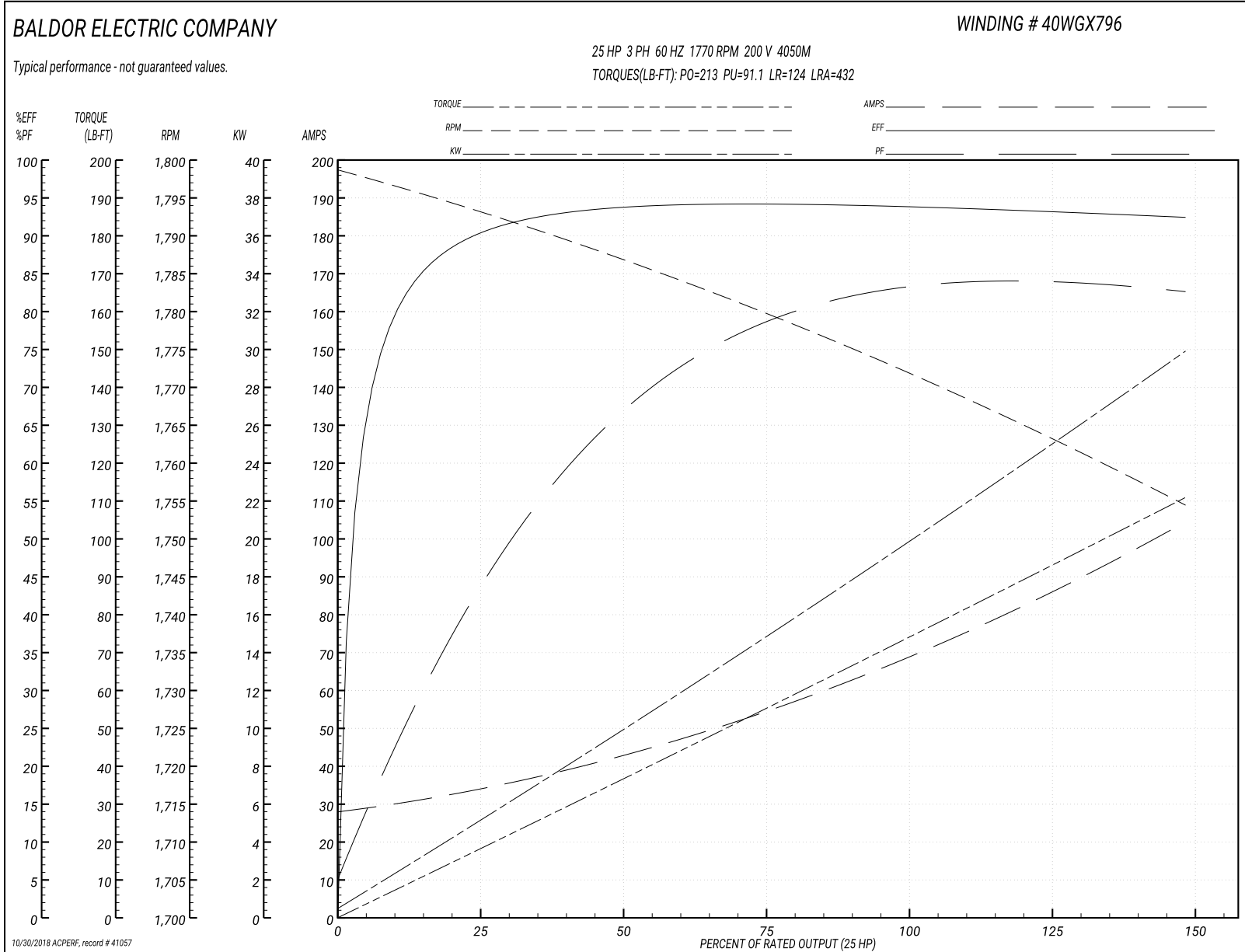
Winding: 40WGX796-R001	Type: 4050M	Enclosure: OPSB
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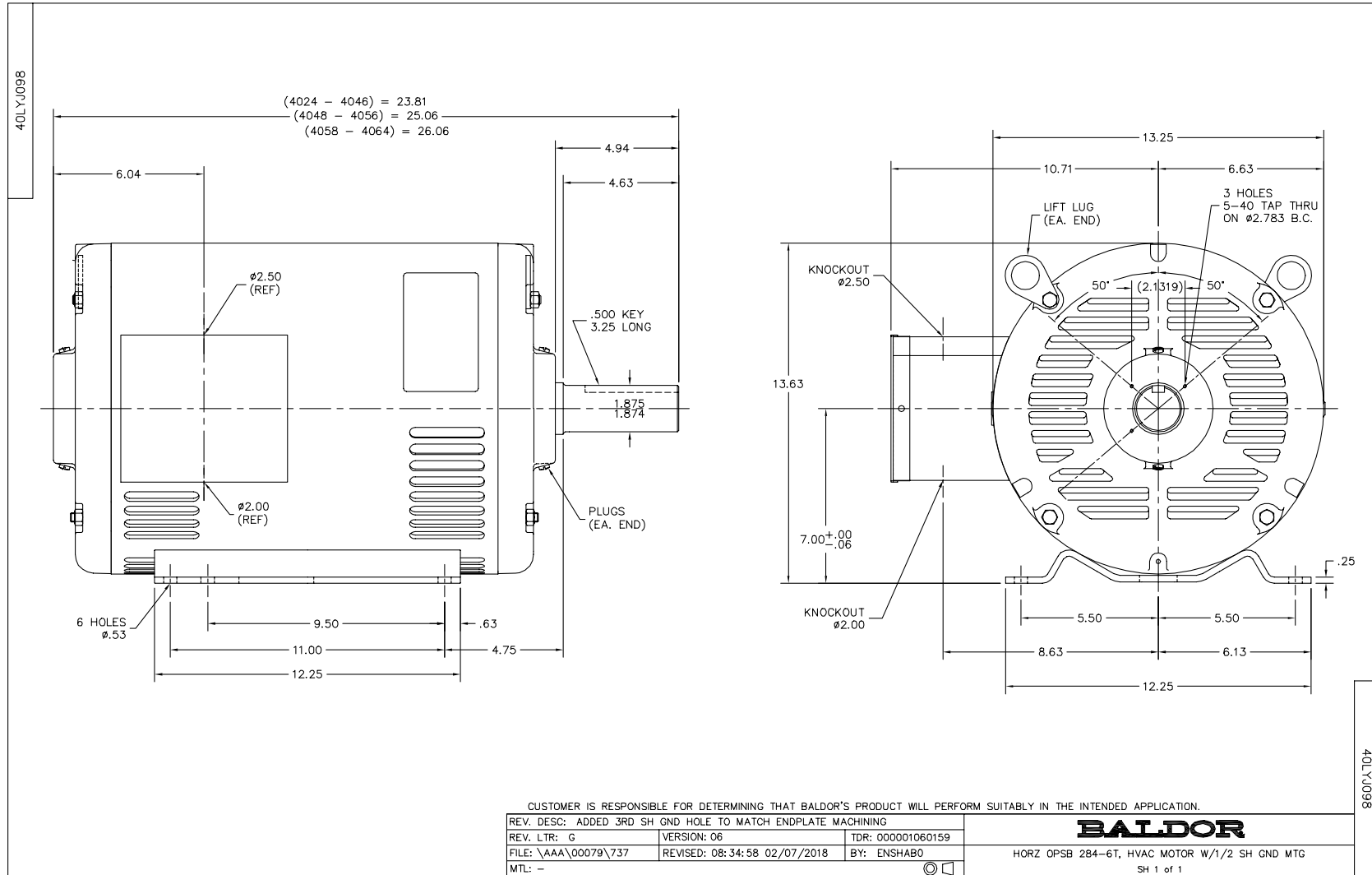
Nameplate Data				200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	25			Full Load Torque	74.1 LB-FT
Volts	200			Start Configuration	direct on line
Full Load Amps	70			Breakdown Torque	213 LB-FT
R.P.M.	1770			Pull-up Torque	91.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	124 LB-FT
NEMA Design Code	B	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

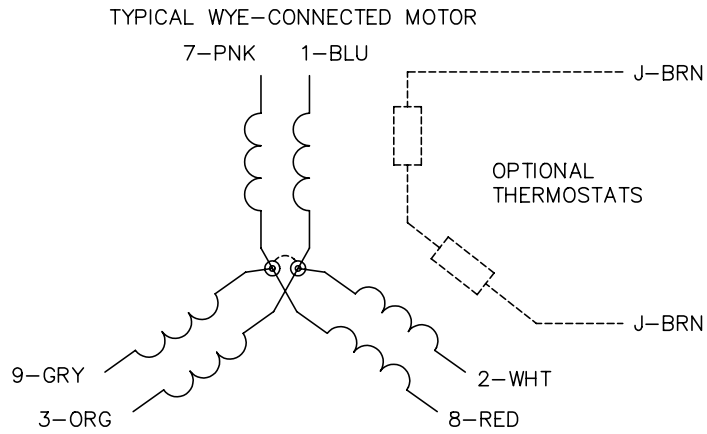
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	82	84	83	83
Efficiency	89.6	93	93.8	93.6	93.1	92.3	93.3
Speed	1793	1786	1780	1772	1764	1754	1767
Line amperes	32.7	42.4	55	69.9	85.7	104	79.4

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

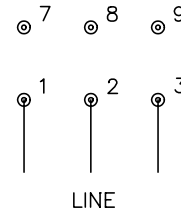




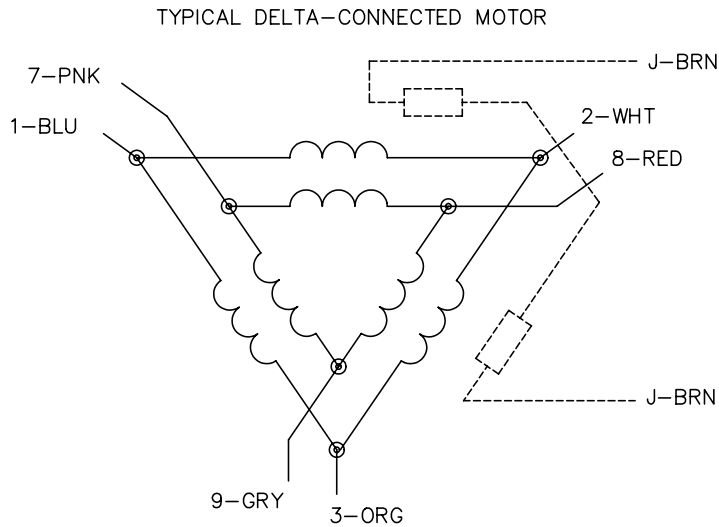
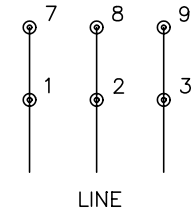
CD0695



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