

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EHM2531T**

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

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGx806	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	40J098	Layout:	40LYJ098	Poles:	04	Created Date:	02-10-2021
Base:	RG	Eff. Date:	01-31-2022	Leads:	9#10		

Specs			
Catalog Number:	EHM2531T	Inverter Code:	Inverter Ready
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:	9 @ 10 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	4050M
Agency Approvals:	CSA	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:	30.000 A @ 460.0 V	Shaft Extension Location:	Pulley End
	60.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	64.000 A @ 208.0 V	Shaft Rotation:	Reversible

<b>Design Code:</b>	A	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Drip Cover:</b>	No Drip Cover	<b>Speed Code:</b>	Single Speed
<b>Duty Rating:</b>	CONT	<b>Motor Standards:</b>	NEMA
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Starting Method:</b>	Direct on line
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Bearing:</b>	None
<b>Front Face Code:</b>	Standard	<b>Thermal Device - Winding:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 1:</b>	None
<b>Insulation Class:</b>	F	<b>Winding Thermal 2:</b>	None

Nameplate NP2094E06B03	
CAT.NO.	EHM2531T
SPEC.	40J098X806G1
HP	25
VOLTS	230/460
AMPS	60/30
RPM	1775
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 64
DE	6311
	ODE 6309
AUTO	
	MANUAL
	NONE
ENCL	OPSB
	SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA390487	SA 40J098X806G1	1.000 EA
RA380938	RA 40J098X806G1	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 OR L70P TERMINAL LUG	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
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, MOBIL POLYREX EM - 124047	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
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.070 GA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

**AC Induction Motor Performance Data**

Record # 86783

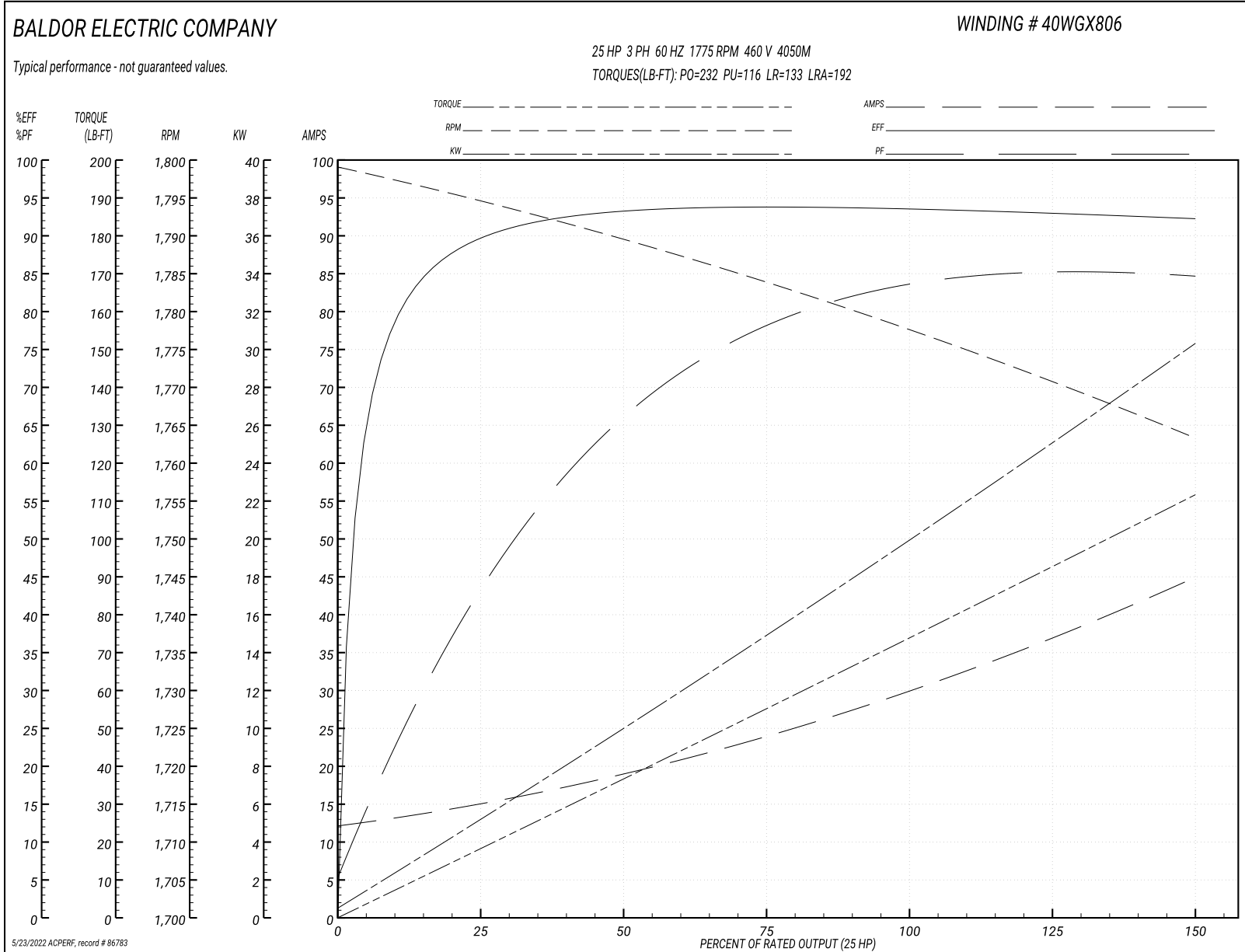
Typical performance - not guaranteed values

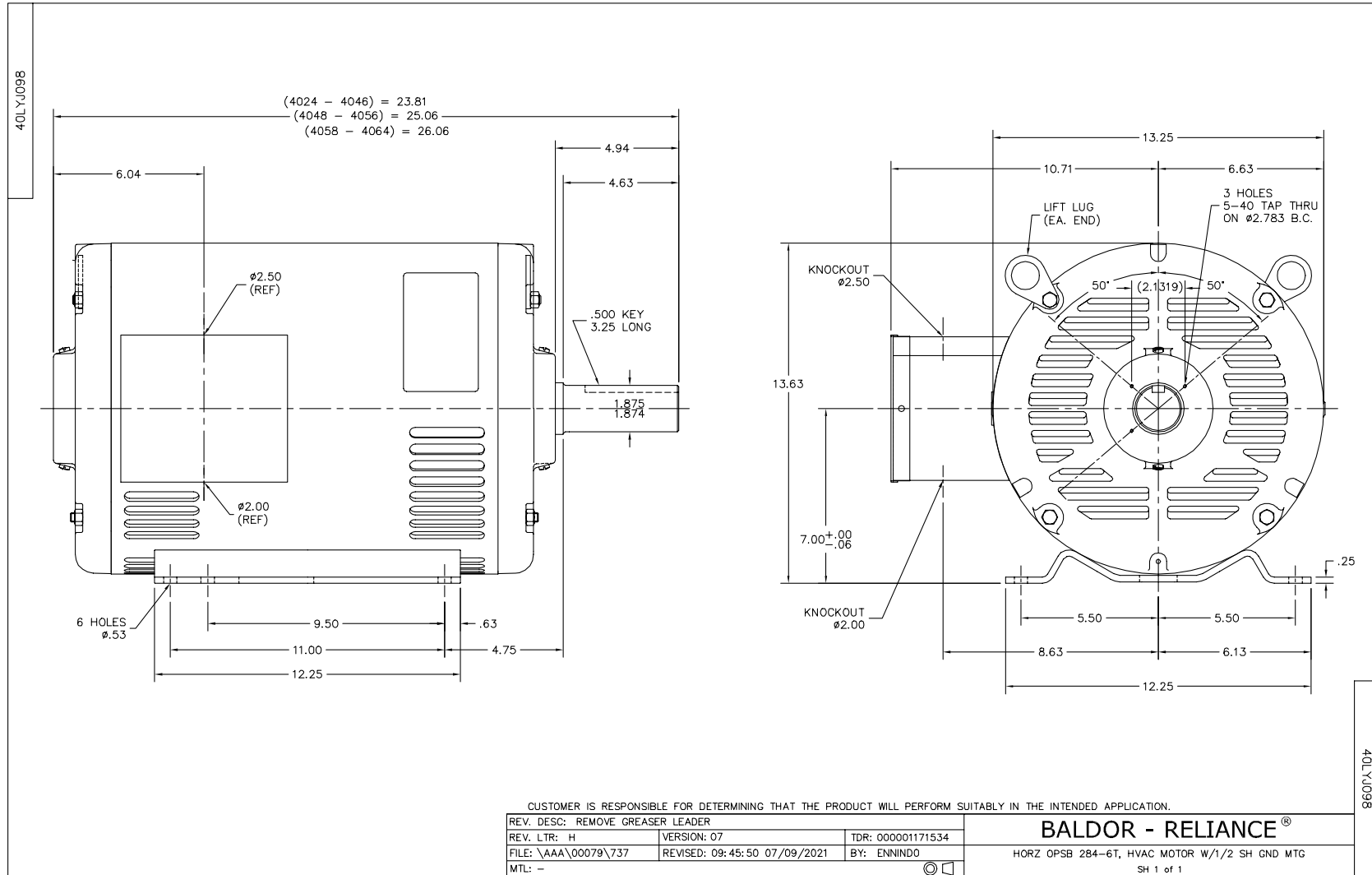
<b>Winding: 40WGx806-R001</b>		<b>Type: 4050M</b>		<b>Enclosure: OPSB</b>			
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>				
<b>Rated Output (HP)</b>	25	<b>Full Load Torque</b>	73.81 LB-FT				
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line				
<b>Full Load Amps</b>	60/30	<b>Breakdown Torque</b>	232 LB-FT				
<b>R.P.M.</b>	1775	<b>Pull-up Torque</b>	116 LB-FT				
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	133 LB-FT			
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	G	<b>Starting Current</b>	192 A		
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	12.6 A			
<b>NEMA Nom. Eff.</b>	93.6	<b>Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	0.35407 Ω		
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	28°C			
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	34°C			
			<b>Locked-rotor Power Factor</b>	35			

**Load Characteristics 460 V, 60 Hz, 25 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	45	67	78	82	85	85	84
<b>Efficiency</b>	89.4	93.1	93.8	93.6	93	92.1	93.2
<b>Speed</b>	1794.8	1789.5	1783.7	1777.6	1771	1763.2	1774
<b>Line amperes</b>	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





CD0005

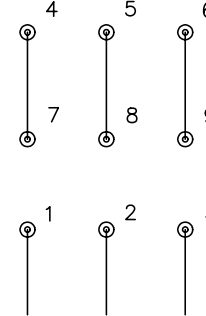


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

90000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005

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