

BALDOR® • **RELIANCE**

Product Information Packet

VEM2531T

25HP, 1770RPM, 3PH, 60HZ, 284TC, 4050M, ODP, F1

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	4050M	Elec. Spec:	40WGX793	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	40J001	Layout:	40LYJ001
Frame:	284TC	Mounting:	F1	Poles:	04	Created Date:	05-01-2015
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	09-06-2016
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3554L									
CAT.NO.	VEM2531T	P/N				ENCLOSURE	OPSB		
SPEC.	40J001X793G1	CC	010A	FRAME	284TC	S/N			
HP	25	CLASS	F	HZ	60				
RPM	1770	PH	3	DES	B				
VOLT	230/460	KVA-CODE	G		ODE BRG	6309	DE BRG	6311	
AMP	60/30	USABLE AT 208V	64						
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.					

Parts List		
Part Number	Description	Quantity
SA300119	SA 40J001X793G1	1.000 EA
RA287165	RA 40J001X793G1	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
RM1048A01	LEAD GROMMET FOR 2.00 HOLE, 40 & 42 FR S	1.000 EA
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10CB3000	STD KO BOX MODEL 310,312,314 MTRS W/2.00	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	1.000 EA
40EP3200A01	STD FREP OPEN 309 BRG W/DRIP COVER	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP1400A13	PU ENDPLATE, CFACE MACH W/O BAFFEL	1.000 EA
10XN3118K36	5/16-18 X 2.25" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
40FH2500A01	SP'L DRIP COVER MODEL 40- OPEN	1.000 EA
10XN2520K12	1/4-20 X.75 GRD 5	2.000 EA
10CB3500	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
40AD2002C01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
40AD2002C01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.030 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
HA3154A04	THRUBOLT STUD 3/8-16 X 18.750	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP3554L	SS SUPER-E UL CSA-EEV PREM CC	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 41050 - Typical performance - not guaranteed values

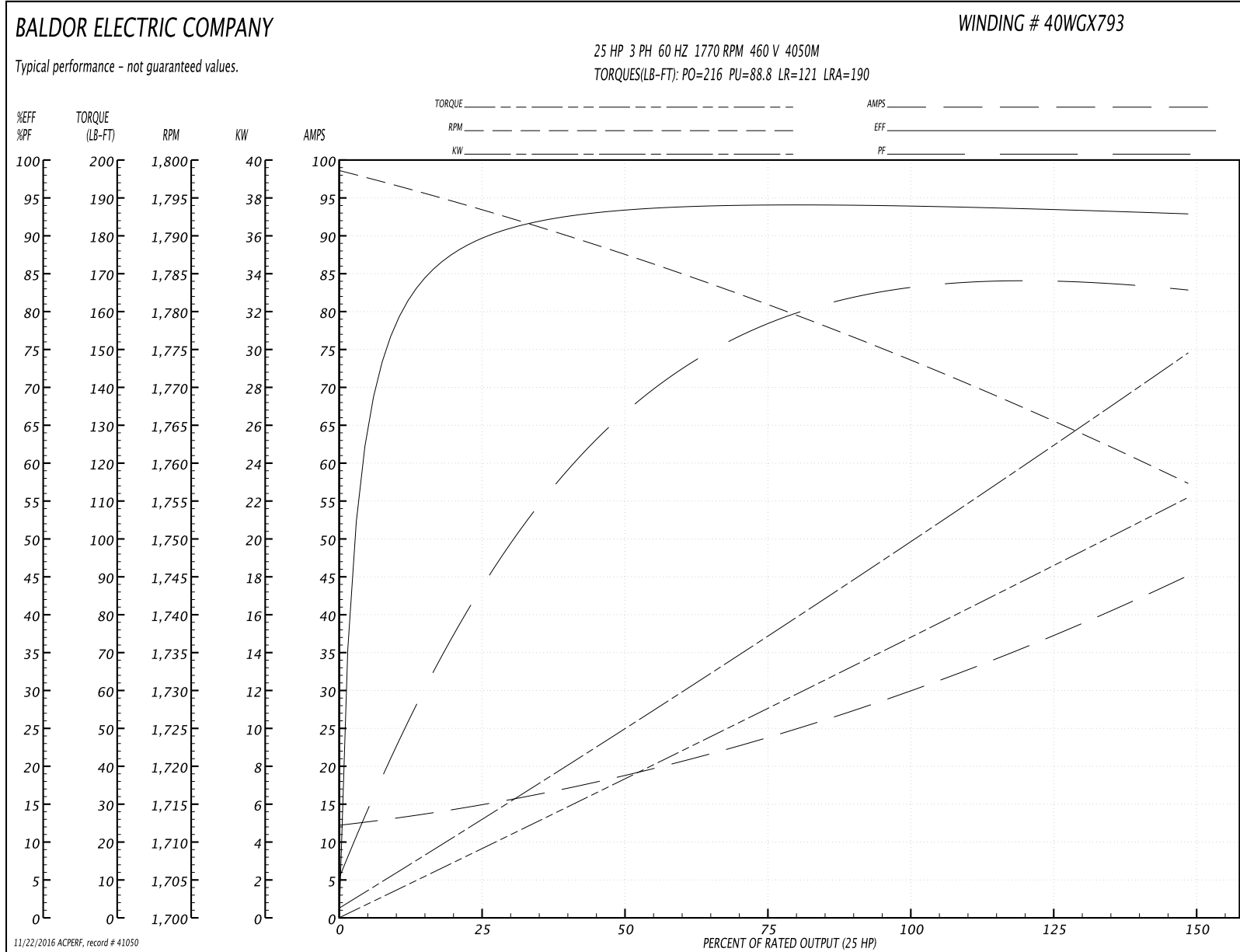
Winding: 40WGX793-R001	Type: 4050M	Enclosure: OPSB
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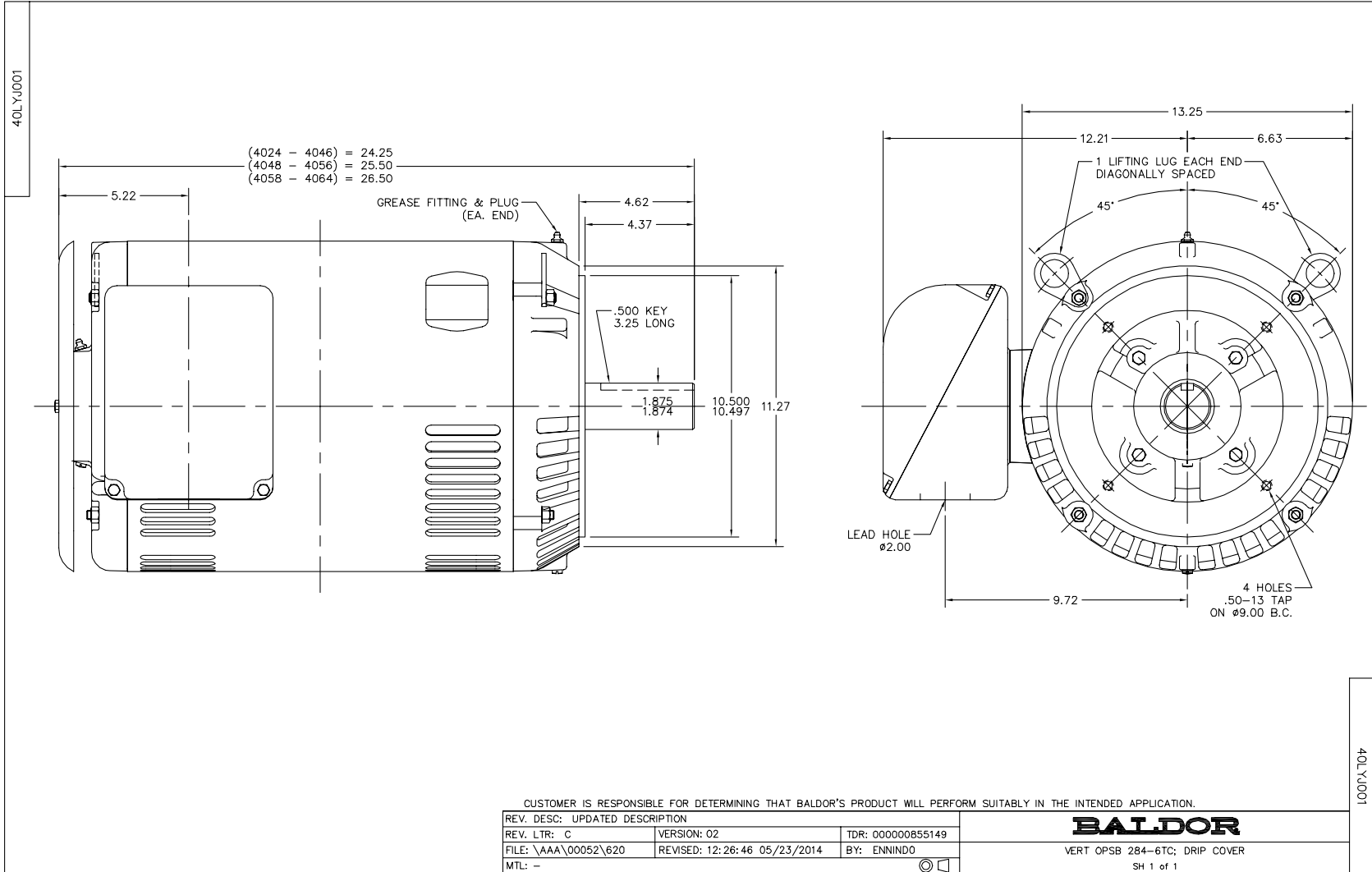
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	25			Full Load Torque	74 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	60/30			Breakdown Torque	216 LB-FT
R.P.M.	1770			Pull-up Torque	88.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	121 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	190 A
Service Factor (S.F.)	1.15			No-load Current	12.7 A
NEMA Nom. Eff.	93.6	Power Factor	82	Line-line Res. @ 25°C	0.299 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	33.5
				Rotor inertia	3.96 LB-FT ²

Load Characteristics 460 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	1787	1781	1774	1766	1757	1769
Line amperes	14.3	18.6	24	30.4	37.2	44.9	34.5

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

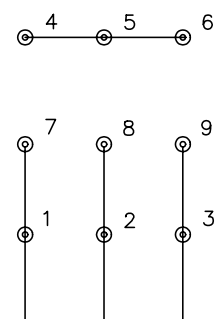




CD0005



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