

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM2538T-G**

**40HP,3530RPM,3PH,60HZ,286TS,4046M,OPSB,F**

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WG194	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	40E275	Layout:	40LYE275	Poles:	02	Created Date:	11-29-2011
Base:	RG	Eff. Date:	04-29-2019	Leads:	9#8		

Specs			
Catalog Number:	EM2538T-G	Insulation Class:	H
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	286TS	KVA Code:	G
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	40.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	CSA	Motor Type:	4046M
	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	89
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:	92.000 A @ 230.0 V	Shaft Extension Location:	Pulley End
	46.000 A @ 460.0 V	Shaft Ground Indicator:	Shaft Grounding

	100.000 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
<b>Design Code:</b>	B	<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>Winding Thermal 2:</b>	None

Nameplate NP3554LUA											
CAT.NO.	EM2538T-G			P/N				ENCL	OPSB		
SPEC.	40E275X194G1		CC	010A		FRAME	286TS		SER.NO.		
HP	40		CLASS	H		HZ	60				
RPM	3530		PH	3		DES	B				
VOLTS	230/460			CODE	G		ODE BRG	6309		DE BRG	6311
AMPS	92/46			USABLE AT 208V	100						
RATING	40C AMB-CONT			NEMA-NOM-EFF	92.4		GREASE	POLYREX EM			
PF	89		SER.F.	1.15							
USABLE AT	50HZ 40HP 190/380V 112/56A				SF1.0						
HTR-VOLTS			HTR-AMPS			MAX. SPACE HEATER TEMP.					

Parts List		
Part Number	Description	Quantity
SA235120	SA 40E275X194G1	1.000 EA
RA222083	RA 40E275X194G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 EA
40EP3200A02	STD FREP OPEN 309 BRG	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP3200B01	STD PUEP OPEN 311 LOCKED BRG W/AIR DEFLE	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
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.070 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
40AD2002B01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
40AD2002B01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
HA3154A03	STUD, 3/8-16 X 17.75	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3554LUA	SS SUPER-E VPWM INV READY UL CSA-EEV PRE	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA

**AC Induction Motor Performance Data**

Record # 53043 - Typical performance - not guaranteed values

<b>Winding:</b> 40WGX194-R006	<b>Type:</b> 4046M	<b>Enclosure:</b> OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	40			Full Load Torque	59.6 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	92/46			Breakdown Torque	207 LB-FT
R.P.M.	3530			Pull-up Torque	74.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	103 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	282 A
Service Factor (S.F.)	1.15			No-load Current	11.7 A
NEMA Nom. Eff.	92.4	Power Factor	89	Line-line Res. @ 25°C	0.1848 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	35°C
S.F. Amps				Temp. Rise @ S.F. Load	44°C
				Locked-rotor Power Factor	24
				Rotor inertia	1.97 LB-FT <sup>2</sup>

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	89	90	90	90
Efficiency	91.4	93.7	93.7	93	92	90.7	92.4
Speed	3580.7	3565.4	3547.1	3527.4	3504.7	3481	3514
Line amperes	16.4	24.9	34.7	45.9	57	69.7	52.6

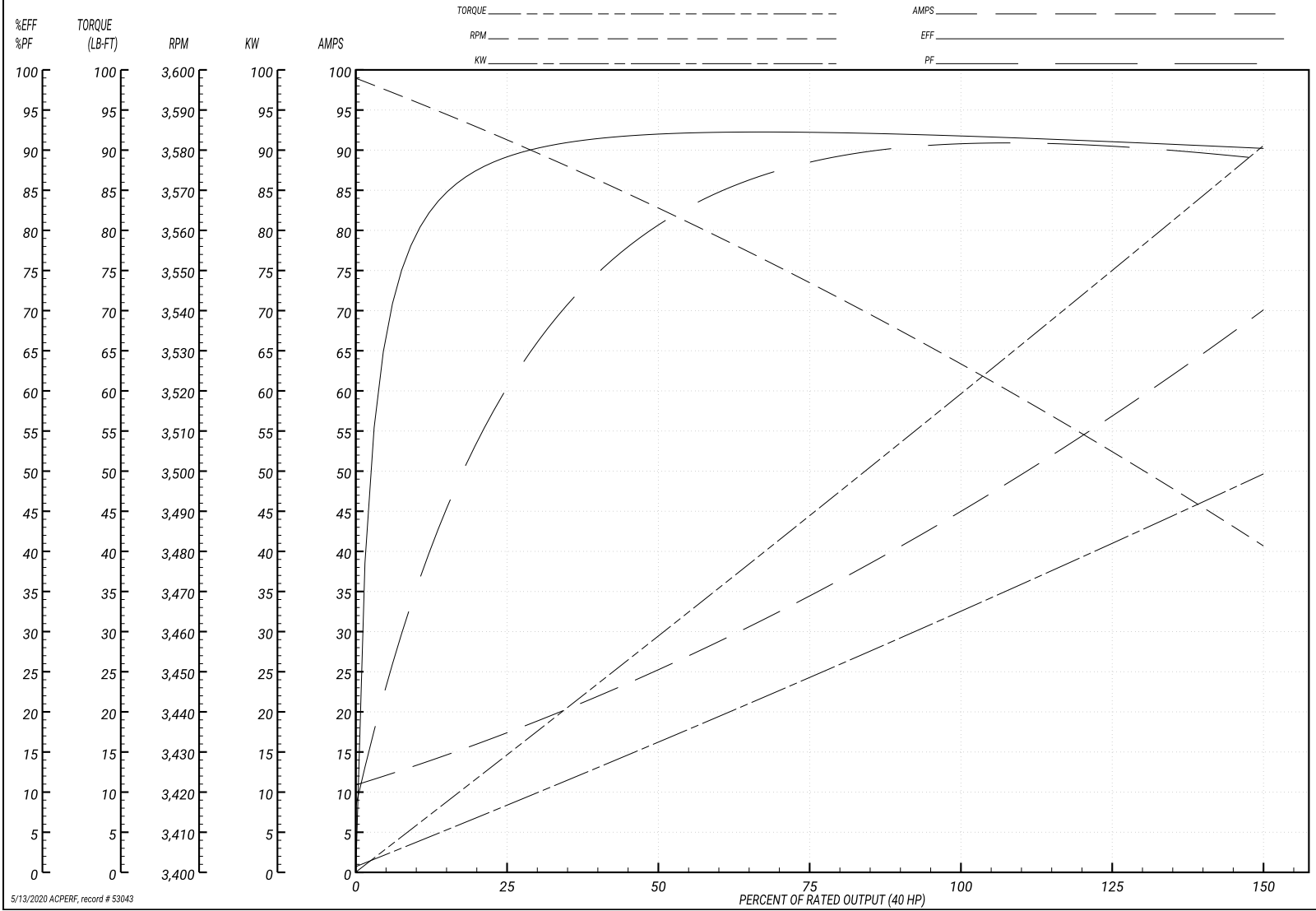
Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

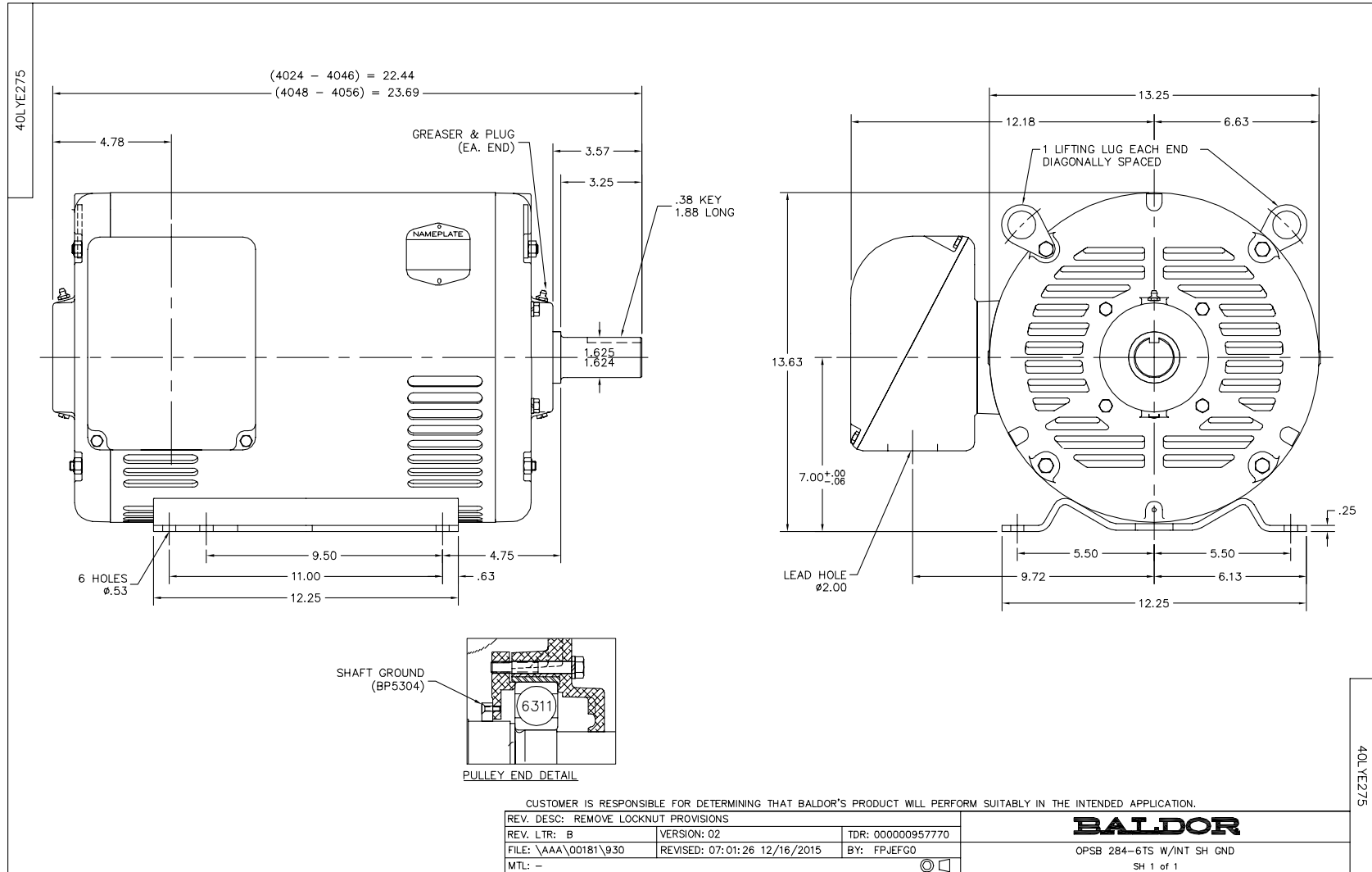
WINDING # 40WGx194

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3530 RPM 460 V 4046M  
 TORQUES(LB-FT): PO=207 PU=74.8 LR=103 LRA=282



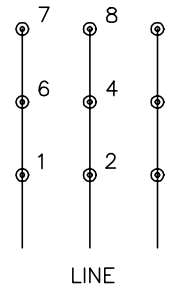
5/13/2020 ACPERF, record # 53043



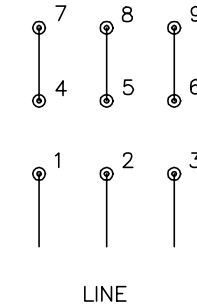
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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.

CD0180

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FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
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**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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