

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM2535T-8**

**30HP,1775RPM,3PH,60HZ,286T,4060M,OPSB,N**

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WG451	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	40G48	Layout:	40LYG048	Poles:	04	Created Date:	07-07-2021
Base:	RG	Eff. Date:	07-14-2021	Leads:	6#6		

Specs			
Catalog Number:	EM2535T-8	IP Rating:	NONE
Enclosure:	OPSB	KVA Code:	H
Frame:	286T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	30.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 6 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	CSA	Motor Type:	4060M
	CSA EEV	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:	83.000 A @ 200.0 V	Shaft Extension Location:	Pulley End
	83.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
Design Code:	A	Shaft Rotation:	Reversible

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

Nameplate NP2138L												
CAT.NO.	EM2535T-8			P/N				ENCLOSURE	OPSB			
SPEC.	40G048X451		CC	010A		FRAME	286T		S/N			
HP	30			CLASS	F		HZ	60				
RPM	1775			PH	3		DES	A				
VOLT	200				KVA-CODE	H		ODE BRG	6309		DE BRG	6311
AMP	83			USABLE AT 208V	83							
RATING	40C AMB-CONT			GREASE	POLYREX EM							
NEMA-NOM-EFF	94.1	PF	82	SER.F.	1.15							
HTR-VOLTS				HTR-AMPS								

Parts List		
Part Number	Description	Quantity
SA395203	SA 40G048X451	1.000 EA
RA385931	RA 40G048X451	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
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
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
40EP3200A02	STD FREP OPEN 309 BRG	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP3200B05	STD PUEP OPEN 311 BRG	1.000 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
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	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
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

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
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
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
HA3154A06	THRUBOLT STUD 3/8-16 X 19.500	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0695	CONNECTION LABEL	1.000 EA
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

<b>Accessories</b>		
<b>Part Number</b>	<b>Description</b>	<b>Multiplier</b>
40-1400	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 89137

Typical performance - not guaranteed values

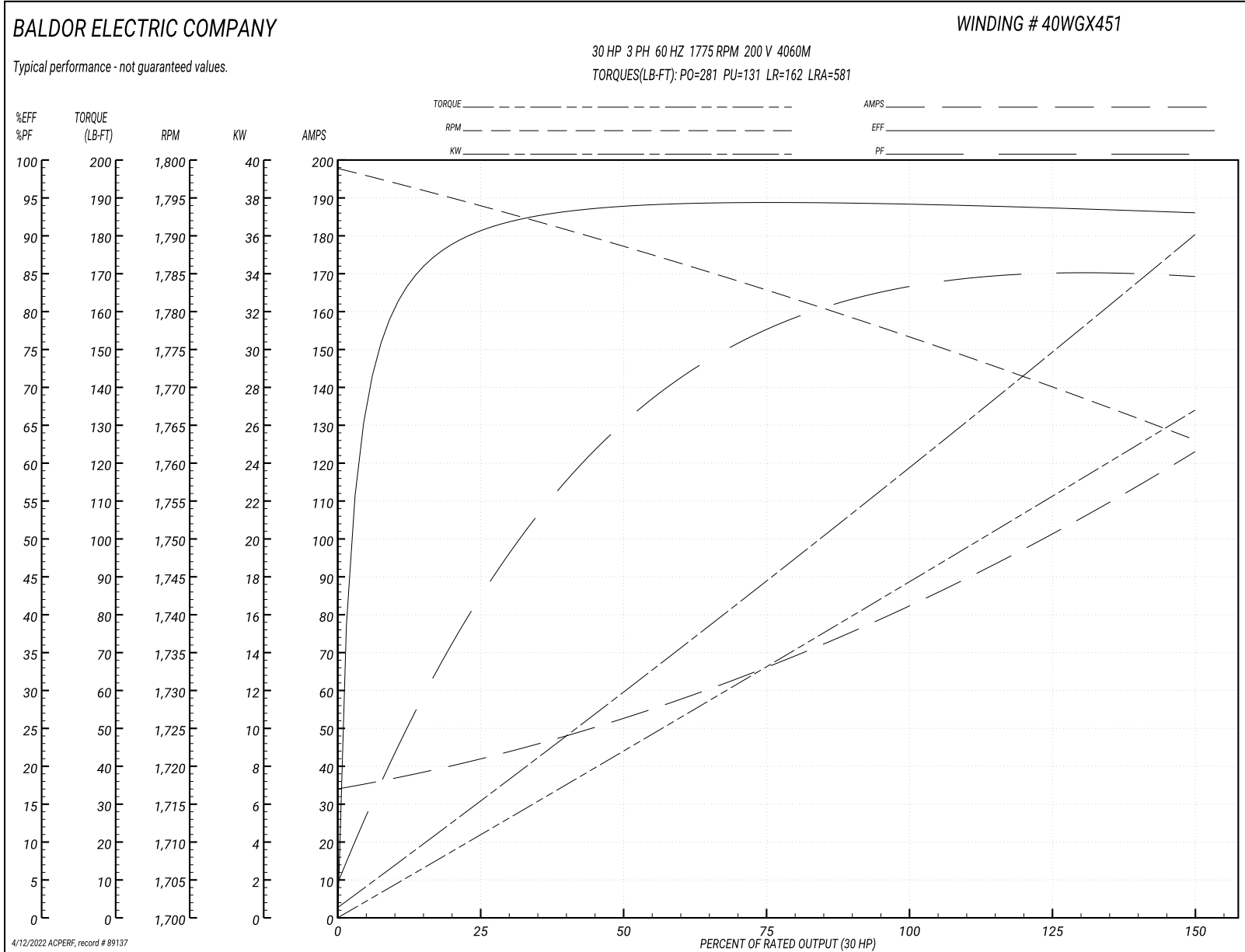
Winding: 40WGX451-R001		Type: 4060M	Enclosure: OPSB
<b>Nameplate Data</b>		<b>200 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	30	Full Load Torque	88.7 LB-FT
Volts	200	Start Configuration	direct on line
Full Load Amps	83	Breakdown Torque	281 LB-FT
R.P.M.	1775	Pull-up Torque	131 LB-FT
Hz	60 Phase	Locked-rotor Torque	162 LB-FT
NEMA Design Code	A KVA Code	Starting Current	581 A
Service Factor (S.F.)	1.15	No-load Current	35.3 A
NEMA Nom. Eff.	94.1 Power Factor	Line-line Res. @ 25°C	0.0382 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	29°C
S.F. Amps		Temp. Rise @ S.F. Load	36°C
		Locked-rotor Power Factor	31.2768
		Rotor inertia	4.77 lb-ft <sup>2</sup>

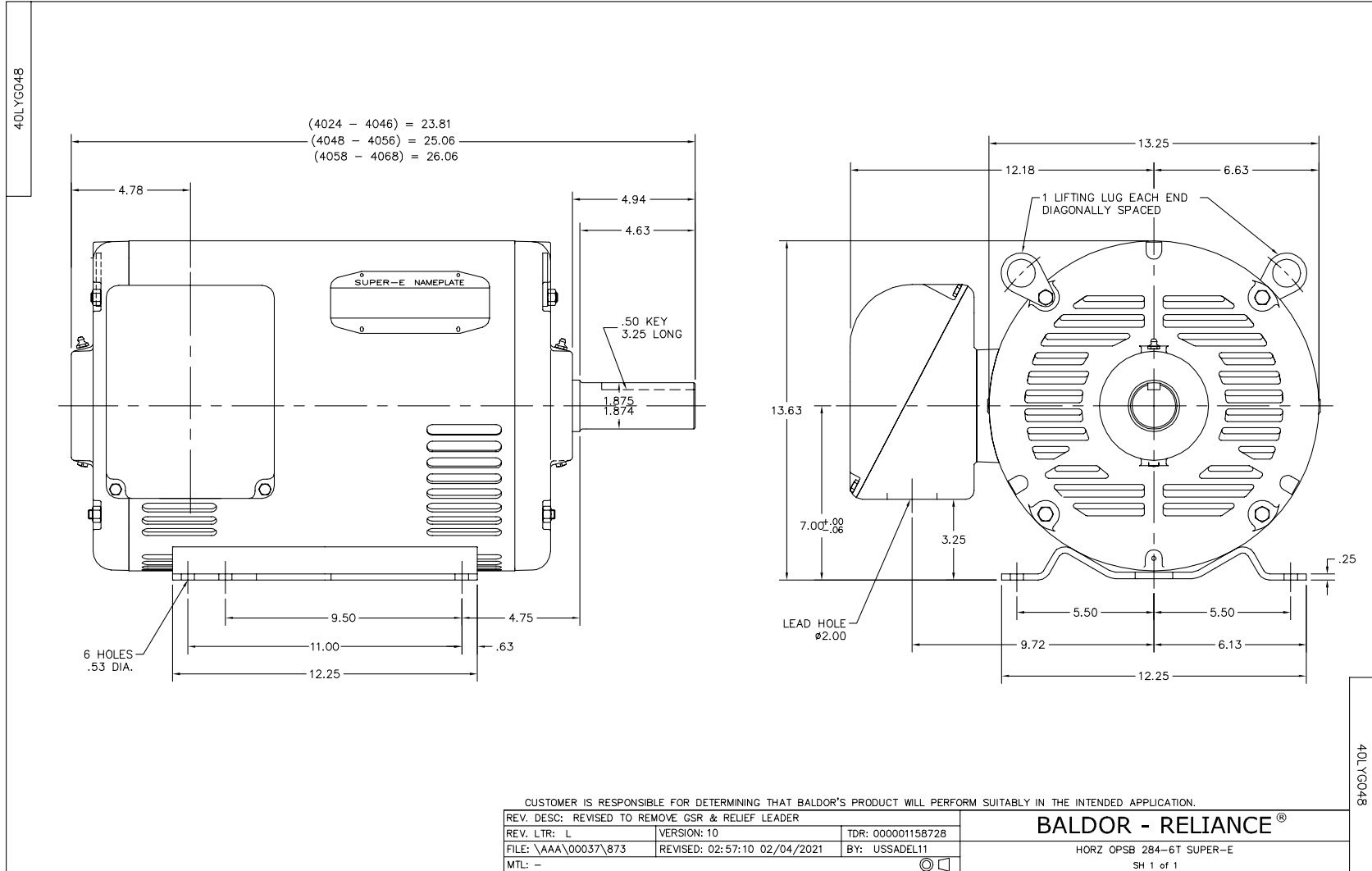
**Load Characteristics 200 V, 60 Hz, 30 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	77	82	84	85	83
Efficiency	90.5	93.9	94.5	94.3	93.5	93.1	93.8
Speed	1794	1788	1783	1777	1770	1763	1773
Line amperes	40.6	51.6	66.7	83.4	102	122	94.6

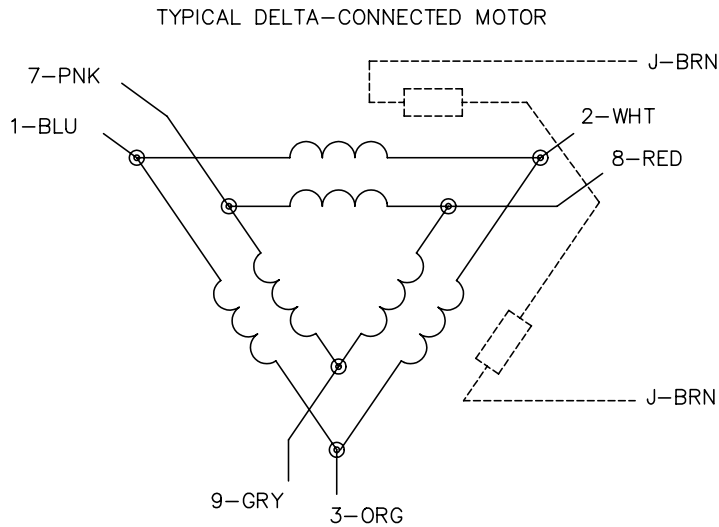
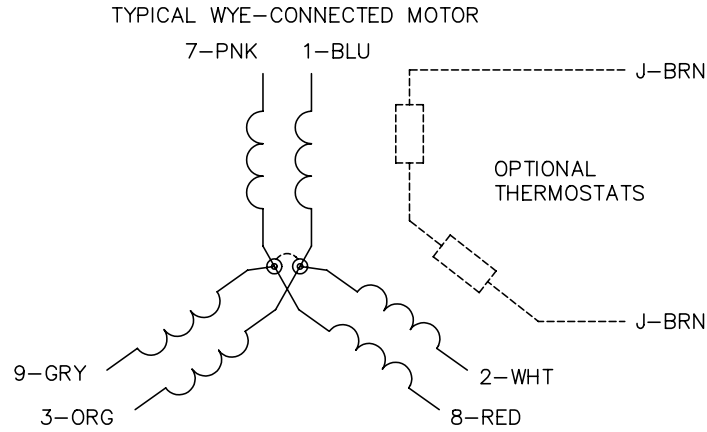


Performance Graph at 200V, 60Hz, 30.0HP Typical performance - Not guaranteed values

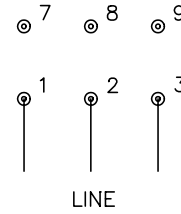




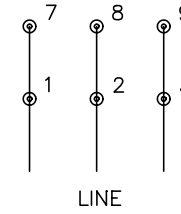
CD0695



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

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