ABB BALDOR RELIANCE

Customer information packet

EM2535T-8G

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

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Specifications

Enclosure	OPSB
Frame	286T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	83.000 A @ 200.0 V
	83.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	83.0 a
Insulation Class	H
Inverter Code	Inverter Ready

Part Detail

Revision	F
Type	AC
Mech. spec.	40E246
Base	
Status	PRD/A
Elec. spec.	40WGX451
Layout	40LYE246
Eff. date	07-20-2026
CD Diagram	CD0695
Poles	04
Leads	6#6
Proprietary	False
Created date	07-07-2021

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554L											
CAT.NO.	EM2535T-8G			**P/N**						**ENCL**	OPSB
SPEC.	40E246X451G1	**CC**	010A		**FRAME**	286T		**SER.NO.**			
HP	30			**CLASS**	H		**HZ**	60			
RPM	1775			**PH**	3		**DES**	A			
VOLTS	200				**CODE**	H		**ODE BRG**	6309	**DE BRG**	6311
AMPS	83										
RATING	40C AMB-CONT				**NEMA-NOM-EFF**	94.1		**GREASE**	POLYREX EM		
PF	82	**SER.F.**	1.15		**VPWM INVERTER READY**						
HTR-VOLTS		**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**						

AC Induction Motor Performance Data
Record # 89138
Typical performance - not guaranteed values

Winding: 40WGX451-R002	**Type:** 4060M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
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**	3	**Locked-rotor Torque**	162 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	581 A
Service Factor (S.F.)			1.15	**No-load Current**	35.3 A
NEMA Nom. Eff.	94.1	**Power Factor**	82	**Line-line Res. @ 25ºC**	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-ft²

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

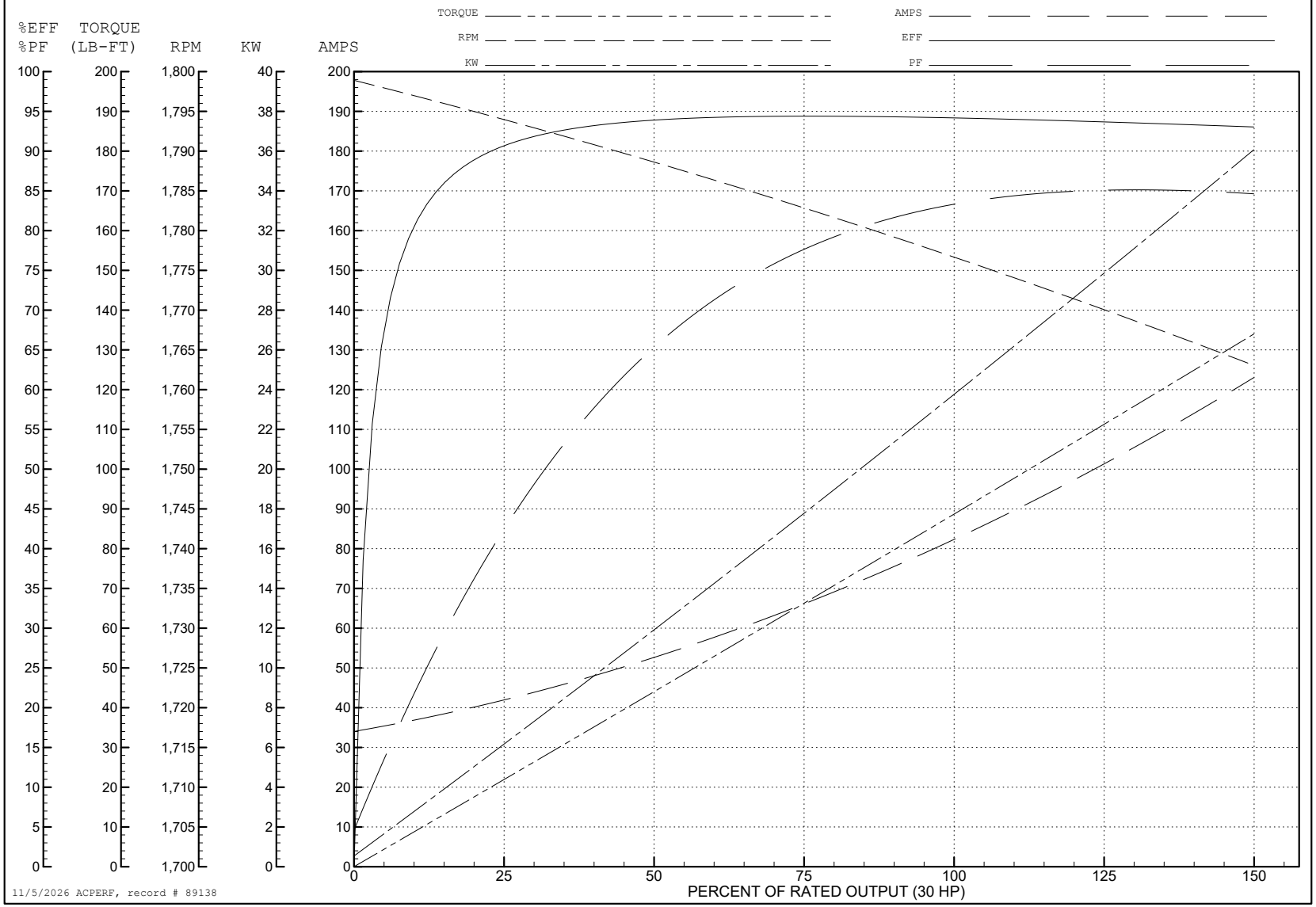
ABB Motors and Mechanical Inc.

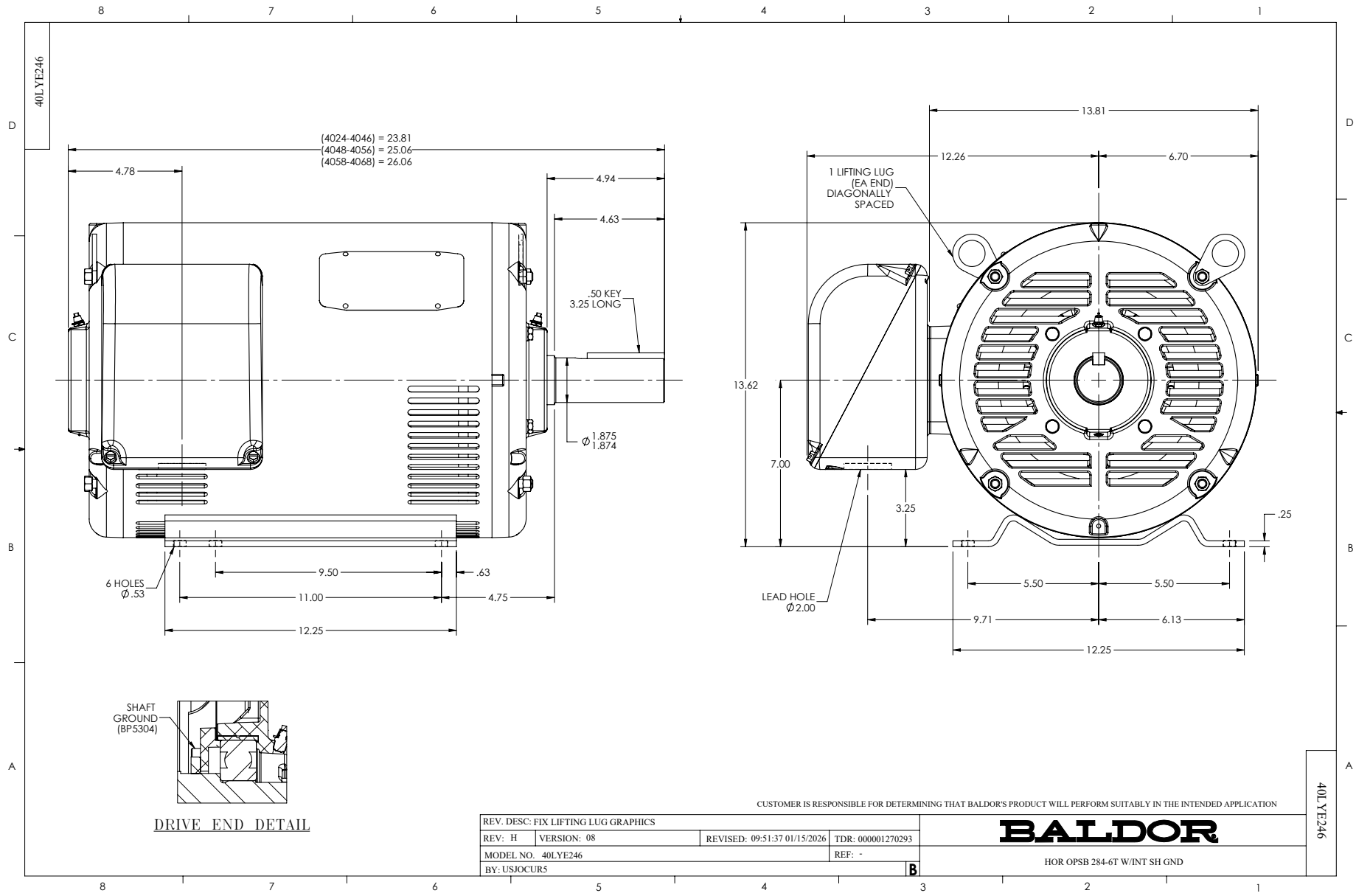
WINDING # 40WGX451

30 HP 3 PH 60 HZ 1775 RPM 200 V 4060M

Typical performance - not guaranteed values.

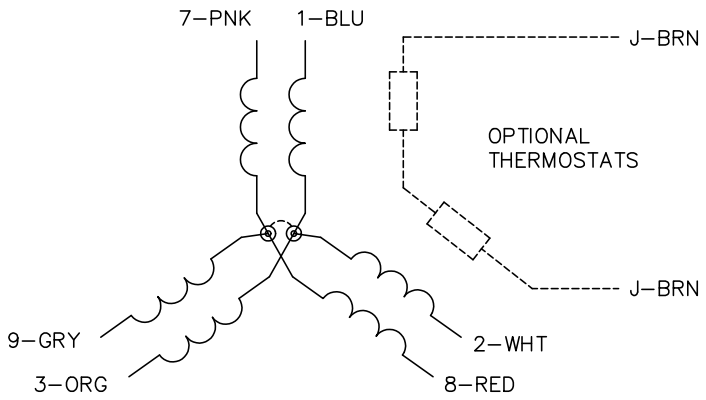
TORQUES(LB-FT): PO=281 PU=131 LR=162 LRA=581



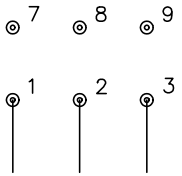

40LYE246
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-4068) = 26.06
4.78
4.94
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
6 HOLES
Ø .53
9.50
.63
11.00
4.75
12.25
13.81
12.26
6.70
1 LIFTING LUG
(EA END)
DIAGONALLY
SPACED
13.62
7.00
3.25
.25
LEAD HOLE
Ø 2.00
5.50
5.50
9.71
6.13
12.25
SHAFT
GROUND
(BP5304)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FIX LIFTING LUG GRAPHICS
REV: H
VERSION: 08
REVISED: 09:51:37 01/15/2026
TDR: 000001270293
MODEL NO. 40LYE246
REF: -
BY: USJOCUR5
B
BALDOR
HOR OPSB 284-6T W/INT SH GND
40LYE246

CD0695

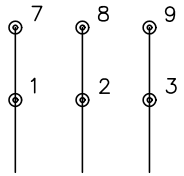
TYPICAL WYE–CONNECTED MOTOR



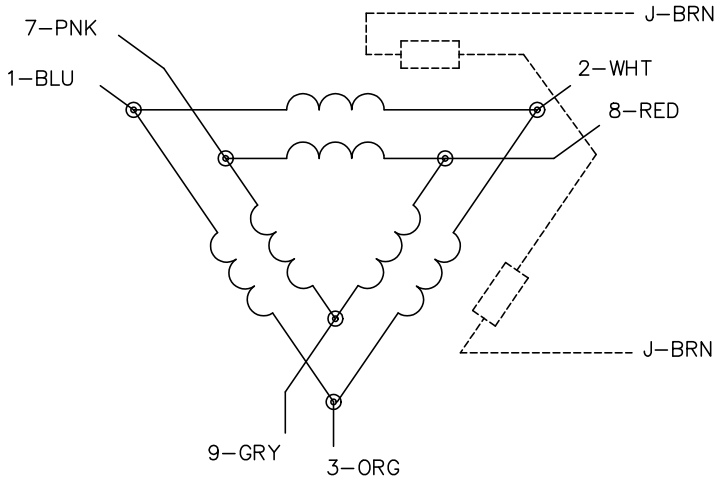
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



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.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START