ABB BALDOR RELIANCE

Customer information packet

EM2534T-8

30HP, 3530RPM, 3PH, 60HZ, 284TS, 4040M, OPSB, F

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Specifications

Enclosure	OPSB
Frame	284TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM (OLD LOGO)
	NEMA PREMIUM
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	78.000 A @ 208.0 V
	80.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	80.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	K
Type	AC
Mech. spec.	40G49
Base	
Status	PRD/A
Elec. spec.	40WGX310
Layout	40LYG049
Eff. date	06-27-2024
CD Diagram	CD0695
Poles	02
Leads	6#6
Proprietary	False
Created date	08-12-2015

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4040M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.44 IN
Power Factor	87
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3530 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.	EM2534T-8			**P/N**						**ENCL**	OPSB
SPEC.	40G049X310G1	**CC**	010A		**FRAME**	284TS		**SER.NO.**			
HP	30		**CLASS**	F		**HZ**	60				
RPM	3530		**PH**	3		**DES**	A				
VOLTS	200			**CODE**	G			**ODE BRG**	6309	**DE BRG**	6311
AMPS	80										
RATING	40C AMB-CONT				**NEMA-NOM-EFF**		91.7		**GREASE**	POLYREX EM	
PF	87	**SER.F.**	1.15		**VPWM INVERTER READY**						
HTR-VOLTS		**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**						

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 52218
Typical performance - not guaranteed values

Winding: 40WGX310-R001	**Type:** 4040M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			30
Volts			200
Full Load Amps			80
R.P.M.			3530
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	87
Rating - Duty			40C AMB-CONT
S.F. Amps			

200 V, 60 Hz: Single Voltage Motor	
Full Load Torque	44.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	165 LB-FT
Pull-up Torque	55.6 LB-FT
Locked-rotor Torque	73.4 LB-FT
Starting Current	518 A
No-load Current	22.9 A
Line-line Res. @ 25ºC	0.047 Ω
Temp. Rise @ Rated Load	23°C
Temp. Rise @ S.F. Load	29°C
Locked-rotor Power Factor	24.2
Rotor inertia	1.72 LB-FT2

Load Characteristics 200 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	62	80	86	88	89	89	89
Efficiency	86.1	91.2	92.3	92.3	91.9	91	92.1
Speed	3582	3567	3552	3536	3518	3499	3525
Line amperes	30.7	44.8	61.1	79.6	99.1	120	91.3

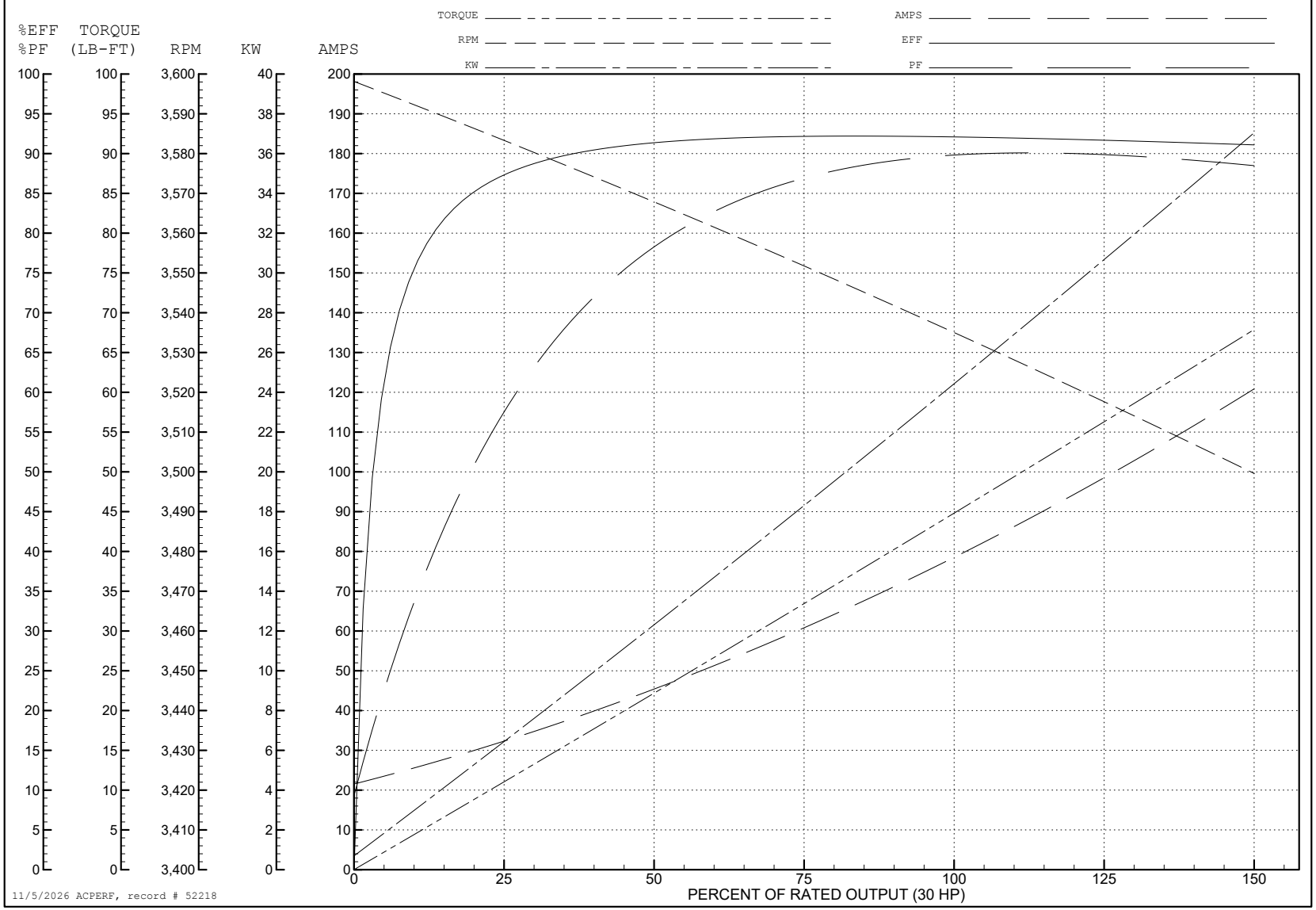
ABB Motors and Mechanical Inc.

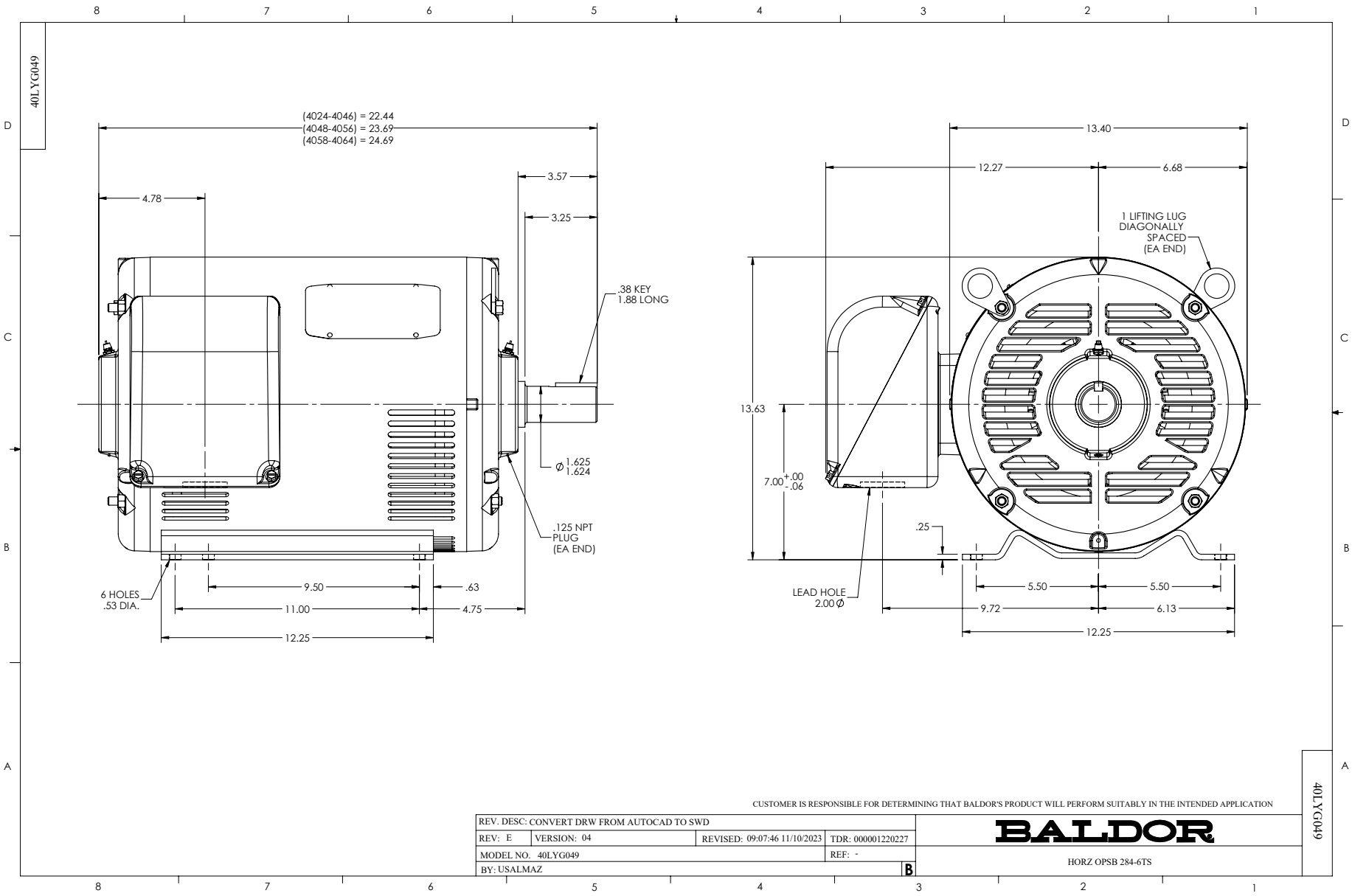
WINDING # 40WGX310

30 HP 3 PH 60 HZ 3530 RPM 200 V 4040M

Typical performance - not guaranteed values.

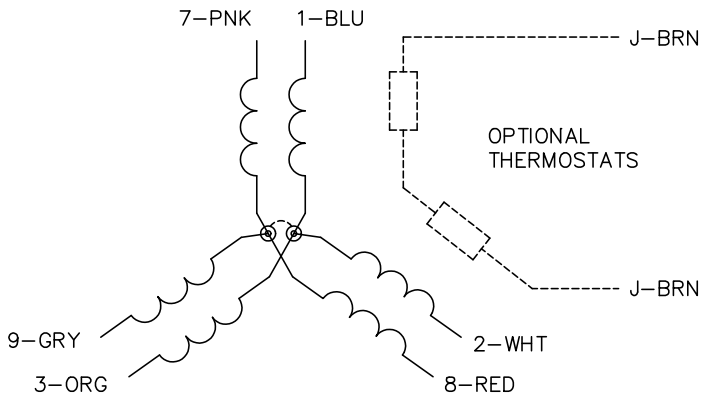
TORQUES(LB-FT): PO=165 PU=55.6 LR=73.4 LRA=518



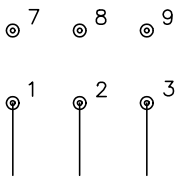

40LYG049
(4024-4046) = 22.44
(4048-4056) = 23.69
(4058-4064) = 24.69
4.78
3.57
3.25
.38 KEY
1.88 LONG
Ø 1.625
1.624
.125 NPT
PLUG
(EA END)
6 HOLES
.53 DIA.
9.50
.63
11.00
4.75
12.25
13.40
12.27
6.68
1 LIFTING LUG
DIAGONALLY
SPACED
(EA END)
13.63
7.00 +.00 -.06
.25
LEAD HOLE
2.00 Ø
5.50
5.50
9.72
6.13
12.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: E
VERSION: 04
REVISED: 09:07:46 11/10/2023
TDR: 000001220227
MODEL NO. 40LYG049
REF: -
BY: USALMAZ
B
BALDOR
HORZ OPSB 284-6TS
40LYG049

CD0695

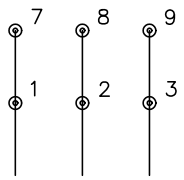
TYPICAL WYE–CONNECTED MOTOR



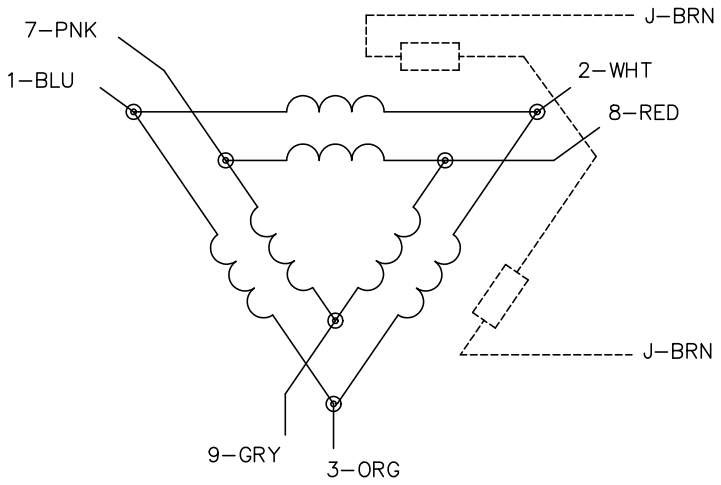
START CONNECTION



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