

ABB BALDOR RELIANCE III

Customer information packet

EM2534T-8

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

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.									

Parts List

Part number	Description	Quantity
SA305479	SA 40G049X310G1	1.000 ea
RA292700	RA 40G049X310G1	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
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
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	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
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 W/SERRATIONS	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
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
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.070 ga
MJ1000A02	GREASE, POLYREX EM EXXON	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
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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

LC0695	CONNECTION LABEL	1.000 ea
NP3554L	SS SUPER-E,CURUS-EEV,NEMA PREM,CC,300 SR	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

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				200 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30		Full Load Torque		44.7 LB-FT		
Volts		200		Start Configuration		direct on line		
Full Load Amps		80		Breakdown Torque		165 LB-FT		
R.P.M.		3530		Pull-up Torque		55.6 LB-FT		
Hz		60 Phase		3		Locked-rotor Torque		73.4 LB-FT
NEMA Design Code		A KVA Code		G		Starting Current		518 A
Service Factor (S.F.)		1.15				No-load Current		22.9 A
NEMA Nom. Eff.		91.7 Power Factor		87		Line-line Res. @ 25°C		0.047 Ω
Rating - Duty		40C AMB-CONT				Temp. Rise @ Rated Load		23°C
S.F. Amps						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

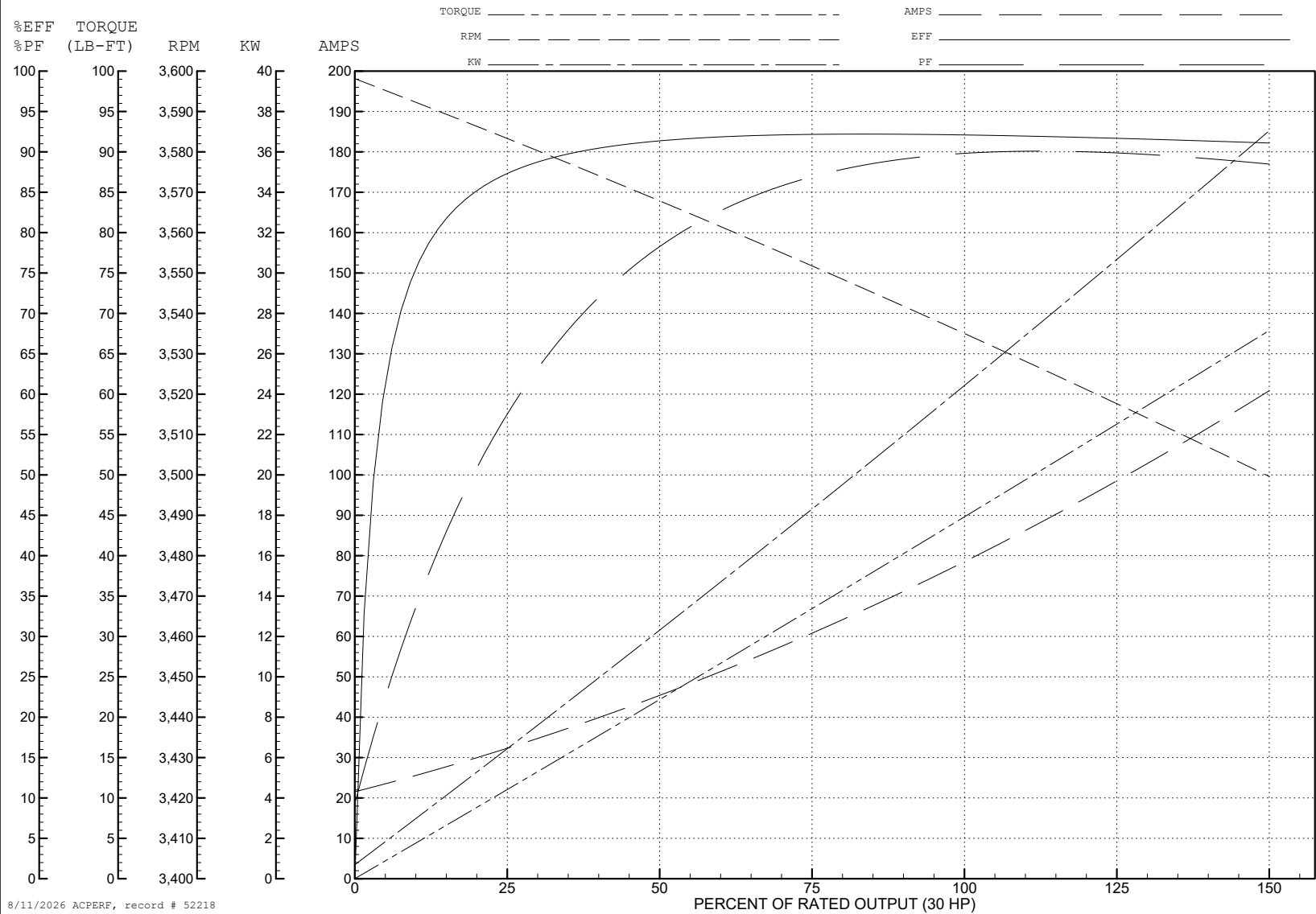
ABB Motors and Mechanical Inc.

WINDING # 40WGX310

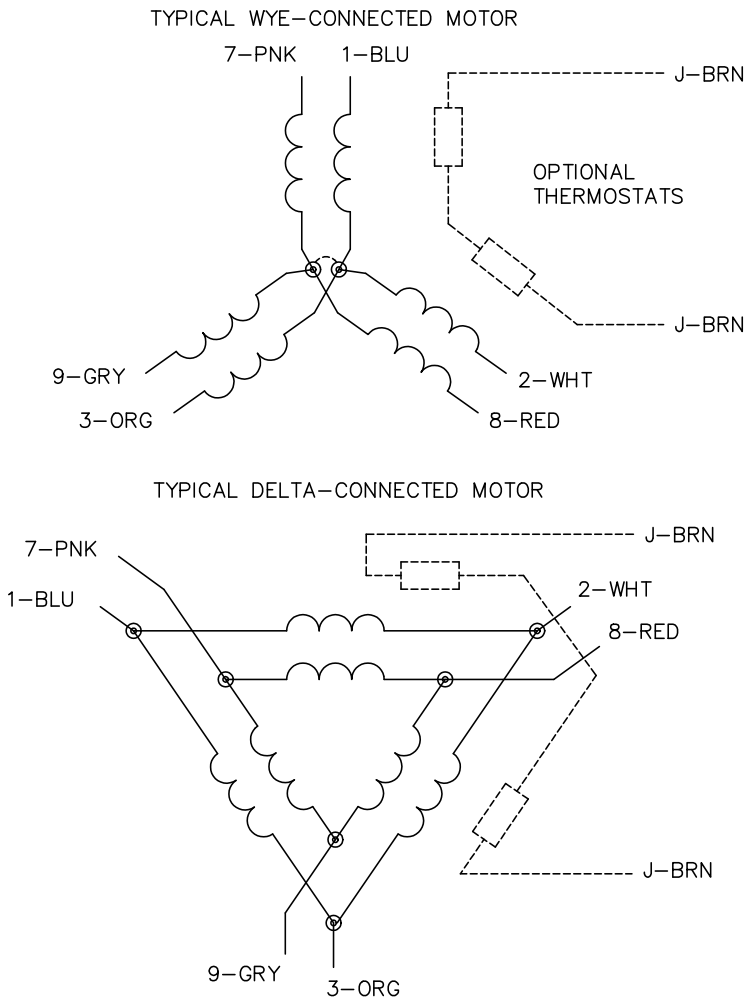
Typical performance - not guaranteed values.

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

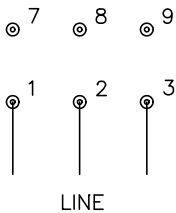
TORQUES (LB-FT): PO=165 PU=55.6 LR=73.4 LRA=518



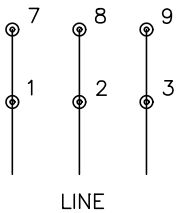
CD0695



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

S69000

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695