

ABB BALDOR RELIANCE III

Customer information packet CEM2536T

30HP, 1180RPM, 3PH, 60HZ, 326TC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	326TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV 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	82.000 A @ 208.0 V 78.000 A @ 230.0 V 39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX122
Layout	40LYH006
Eff. date	02-12-2024
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	02-20-2020

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4084M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.69 IN
Power Factor	77
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138L																	
CAT.NO.	CEM2536T				P/N					ENCLOSURE		OPSB					
SPEC.	40-0000-0134			CC	010A		FRAME		326TC		S/N						
HP	30				CLASS		F		HZ		60						
RPM	1180				PH	3		DES		A							
VOLT	230/460								KVA-CODE		H		ODE BRG		6309	DE BRG	6312
AMP	78/39																
RATING	40C AMB-CONT				GREASE		POLYREX EM										
NEMA-NOM-EFF	93.6	PF	77	SER.F.		1.15											
HTR-VOLTS			HTR-AMPS														

Parts List

Part number	Description	Quantity
SA379246	SA 40-0000-0134	1.000 ea
RA369232	RA 40-0000-0134	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2138L	ALUM SUPER-E UL PREM CC (300	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
HA3159A12	THRUBOLT.38-16 X 21.50 LG, SEE ADD. DATA	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	8.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
40EP3200A02	STD FREP OPEN 309 BRG	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
40EP1401A01	PU ENDPLATE, MACH OPEN NEMA 324-6T	1.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	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
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
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea

51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.125 ga
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
42PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 ea
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 66226

Typical performance - not guaranteed values

Winding: 40WGX122-R001			Type: 4084M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		30		Full Load Torque		133.3 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		78/39		Breakdown Torque		417 LB-FT
R.P.M.		1180		Pull-up Torque		187 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		233 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		267 A
Service Factor (S.F.)		1.15		No-load Current		18.1 A
NEMA Nom. Eff.		93.6	Power Factor	Line-line Res. @ 25°C		0.2452 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C
S.F. Amps				Temp. Rise @ S.F. Load		49°C
				Locked-rotor Power Factor		28.6

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	72	77	80	81	79
Efficiency	89.6	93.2	93.8	93.6	92.9	92.1	93.2
Speed	1196.1	1192.3	1188.4	1184.2	1179.4	1174.2	1181
Line amperes	20.2	25	31.5	39	47.4	56.7	44

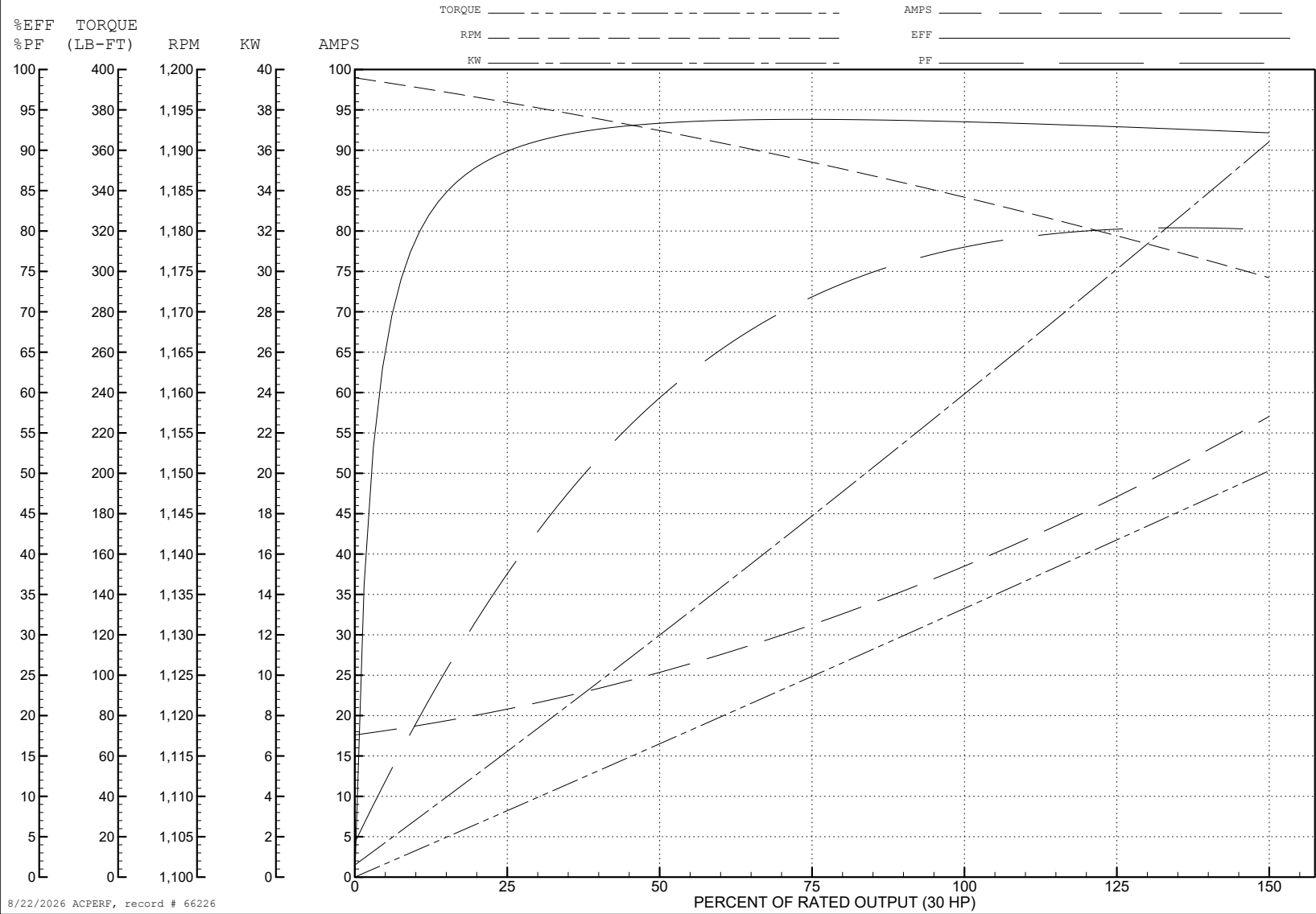
ABB Motors and Mechanical Inc.

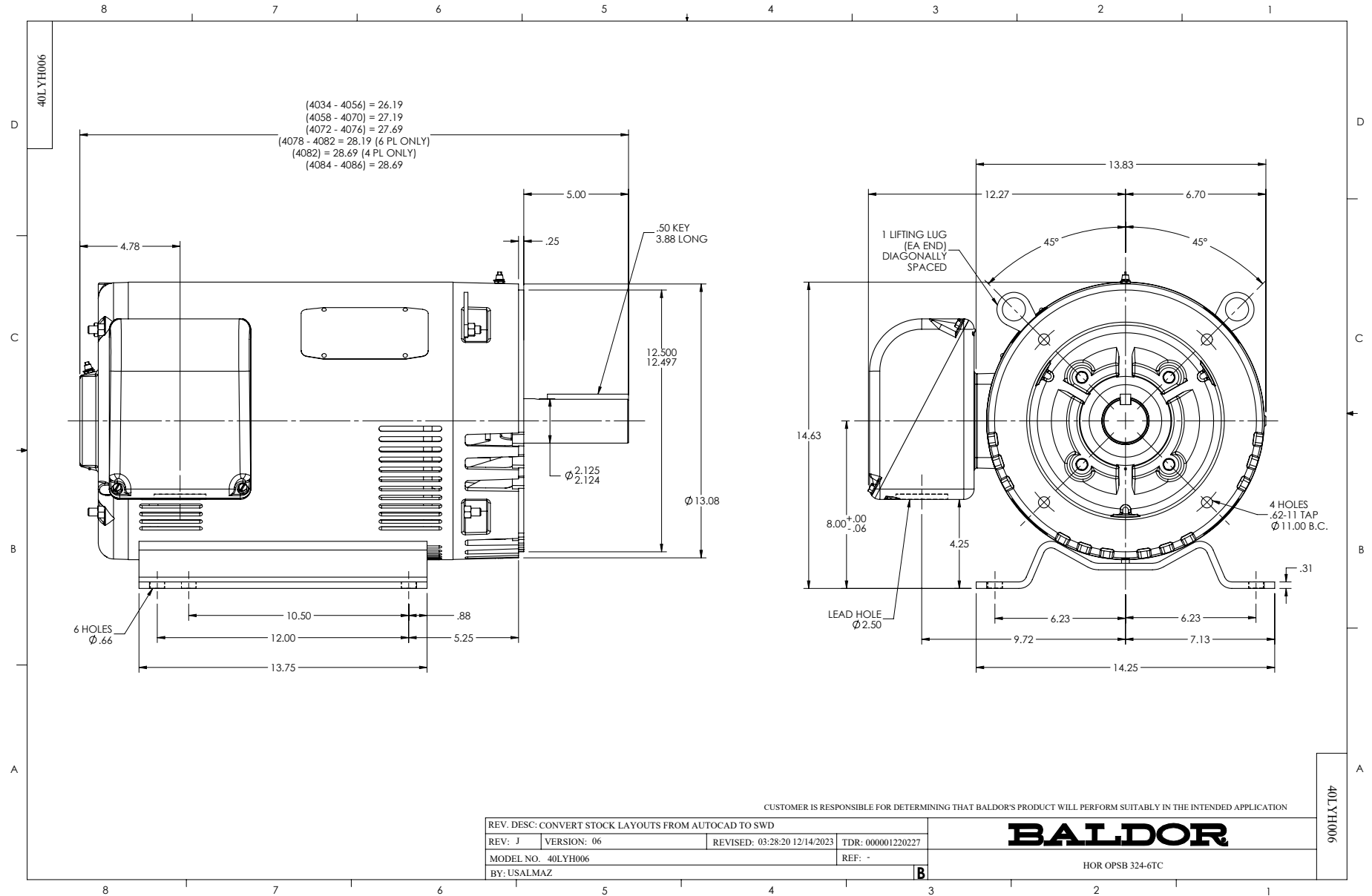
WINDING # 40WGX122

Typical performance - not guaranteed values.

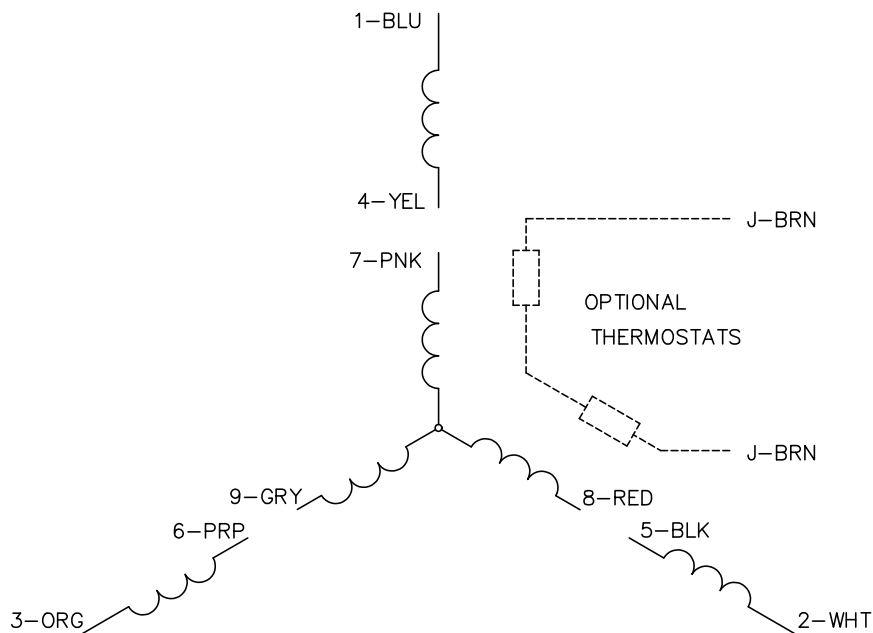
30 HP 3 PH 60 HZ 1180 RPM 460 V 4084M

TORQUES (LB-FT): PO=417 PU=187 LR=233 LRA=267

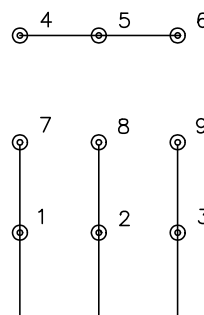




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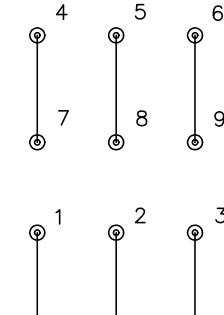


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005