ABB BALDOR RELIANCE

Customer information packet

EM2555T-4G

100HP, 1780RPM, 3PH, 60HZ, 404T, 4484M, OPSB, F

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11/3/2026 6:25:42 PM

Part Detail

Revision	G
Type	AC
Mech. spec.	44E227
Base	
Status	PRD/A
Elec. spec.	44WGW390
Layout	44LYE227
Eff. date	11-19-2024
CD Diagram	CD0382
Poles	04
Leads	6#4
Proprietary	False
Created date	09-01-2017

Nameplate

NP2138LUA												
CAT.NO.	EM2555T-4G			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	44E227W390G1	**CC**	010A		**FRAME**	404T		**S/N**				
HP	100			**CLASS**	H		**HZ**	60				
RPM	1780			**PH**	3		**DES**	A				
VOLT	460				**KVA-CODE**	H		**ODE BRG**	6312	**DE BRG**	6316	
AMP	118											
RATING	40C AMB-CONT				**GREASE**	POLYREX EM						
NEMA-NOM-EFF	95.4	**PF**	83	**SER.F.**	1.15							
	50HZ 100HP 380V 139A SF1.0											
HTR-VOLTS		**HTR-AMPS**										

Parts List

Part number	Description	Quantity
SA344155	SA 44E227W390G1	1.000 ea
RA332631	RA 44E227W390G1	1.000 ea
HA6731	LIFTING LUG FOR 44 FRAME MOTORS.	2.000 ea
HA6648A01	CAST ADAPTER, 44 FRAME - NEMA 404-5 - MA	1.000 ea
19XW3816A12	.38-16 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	2.000 ea
18CB1006A04	CB 318 3.62 LD HOLE, .38 MTG HOLE & 3.88	1.000 ea
19XW3118A16	.31-18 HEX WASHER HEAD TAPTITE II 1.00 L	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
10XN3118K08	5/16-18 X .50 GRADE #5, STL, ZINC PLATE	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 ea
44EP1203A02	FREP, MACH	1.000 ea
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 ea
10XN3816K48	3/8-16 X 3 HEX HD CAP SCREW,Z/P	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
44EP1202A01	PU ENDPLATE, MACH.	1.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
18CB1506A01	CB LID 318 FOR 18CB1006	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HW2501K66	KEY, 3/4 SQ X 5.625	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*	0.080 ga
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 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

44AD2001A01	BAFFLE 44 OPEN,"X"=1.00, SLOTTED BAND MT	1.000 ea
44AD2001A01	BAFFLE 44 OPEN,"X"=1.00, SLOTTED BAND MT	1.000 ea
HA3175A04	THRUBOLT STUD 1/2-13 X 26.000 - GRADE 2	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0382	CONNECTION LABEL	1.000 ea
NP2138LUA	ALUM SUPER-E UL PREM CC (300SER)	1.000 ea
44PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 66624
Typical performance - not guaranteed values

Winding: 44WGW390-R002	**Type:** 4484M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			100	**Full Load Torque**	295 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			118	**Breakdown Torque**	884 LB-FT
R.P.M.			1780	**Pull-up Torque**	375 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	498 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	852 A
Service Factor (S.F.)			1.15	**No-load Current**	46.4 A
NEMA Nom. Eff.	95.4	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.045551 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps				**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	25.4
				Rotor inertia	15.9 LB-FT2

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	70	79	83	85	86	84
Efficiency	92.6	95.3	95.7	95.6	95.2	94.6	95.4
Speed	1794	1789.8	1785.5	1780.7	1775.5	1769.8	1778
Line amperes	54.2	70.6	92.8	118	145	173	134

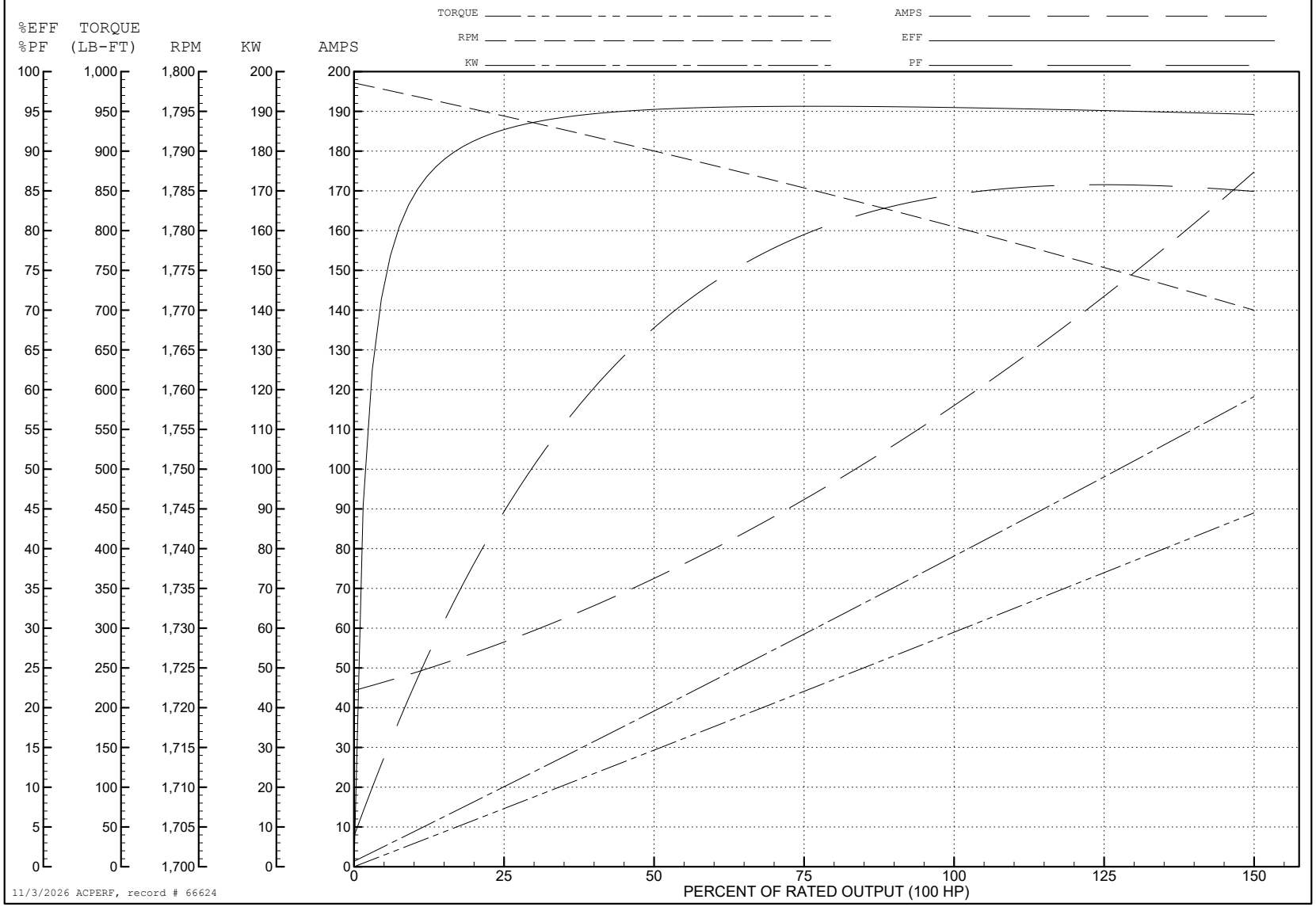
ABB Motors and Mechanical Inc.

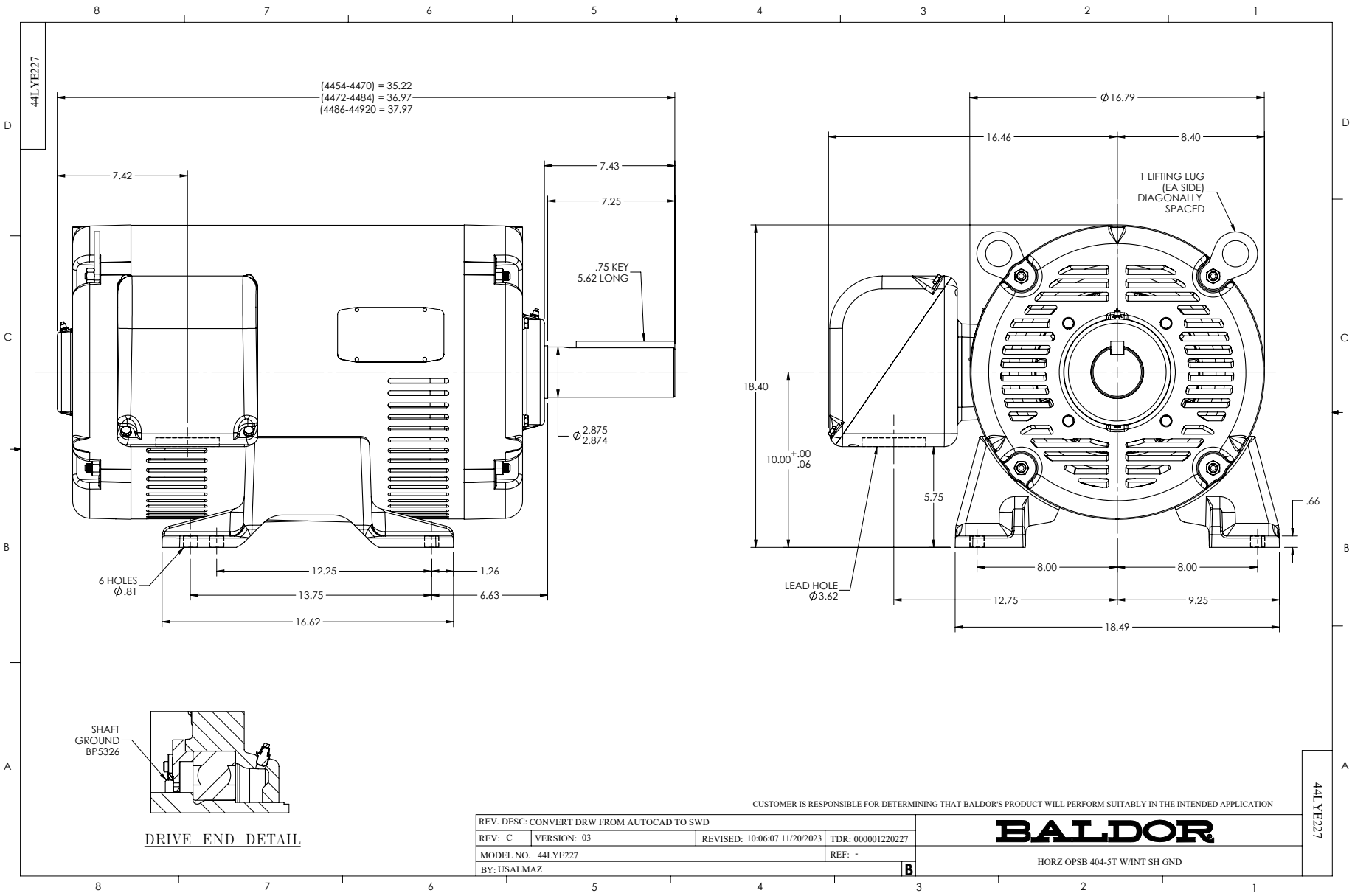
WINDING # 44WGW390

100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

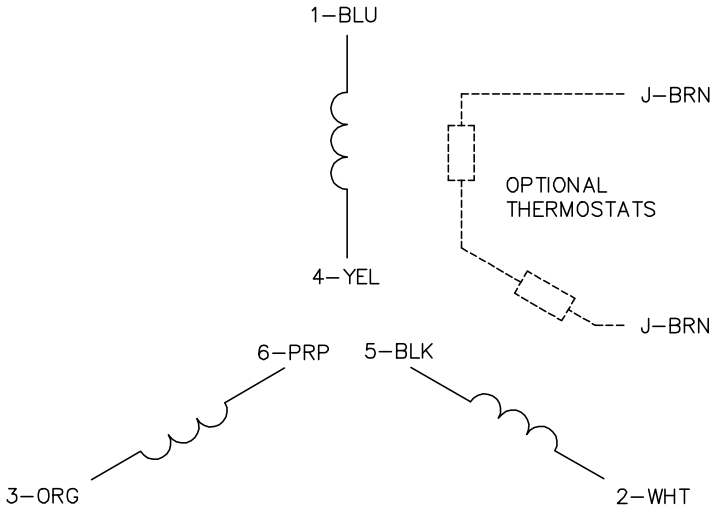
Typical performance - not guaranteed values.

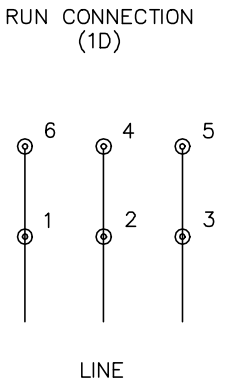
TORQUES(LB-FT): PO=884 PU=375 LR=498 LRA=852

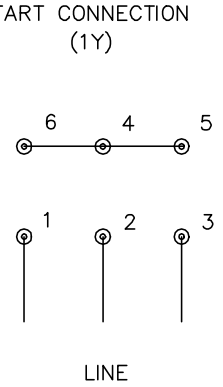



44LYE227
(4454-4470) = 35.22
(4472-4484) = 36.97
(4486-44920 = 37.97
7.42
7.43
7.25
.75 KEY
5.62 LONG
Ø 2.875
2.874
6 HOLES
Ø .81
12.25
1.26
13.75
6.63
16.62
Ø16.79
16.46
8.40
1 LIFTING LUG
(EA SIDE)
DIAGONALLY
SPACED
18.40
10.00 +.00 -.06
5.75
.66
LEAD HOLE
Ø3.62
8.00
8.00
12.75
9.25
18.49
SHAFT
GROUND
BP5326
DRIVE END DETAIL
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: C
VERSION: 03
REVISED: 10:06:07 11/20/2023
TDR: 000001220227
MODEL NO. 44LYE227
REF: -
BY: USALMAZ
B
BALDOR
HORZ OPSB 404-5T W/INT SH GND
44LYE227

CD0382







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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1