

ABB BALDOR RELIANCE III

Customer information packet EM2555T-4G

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

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. @ 25°C		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

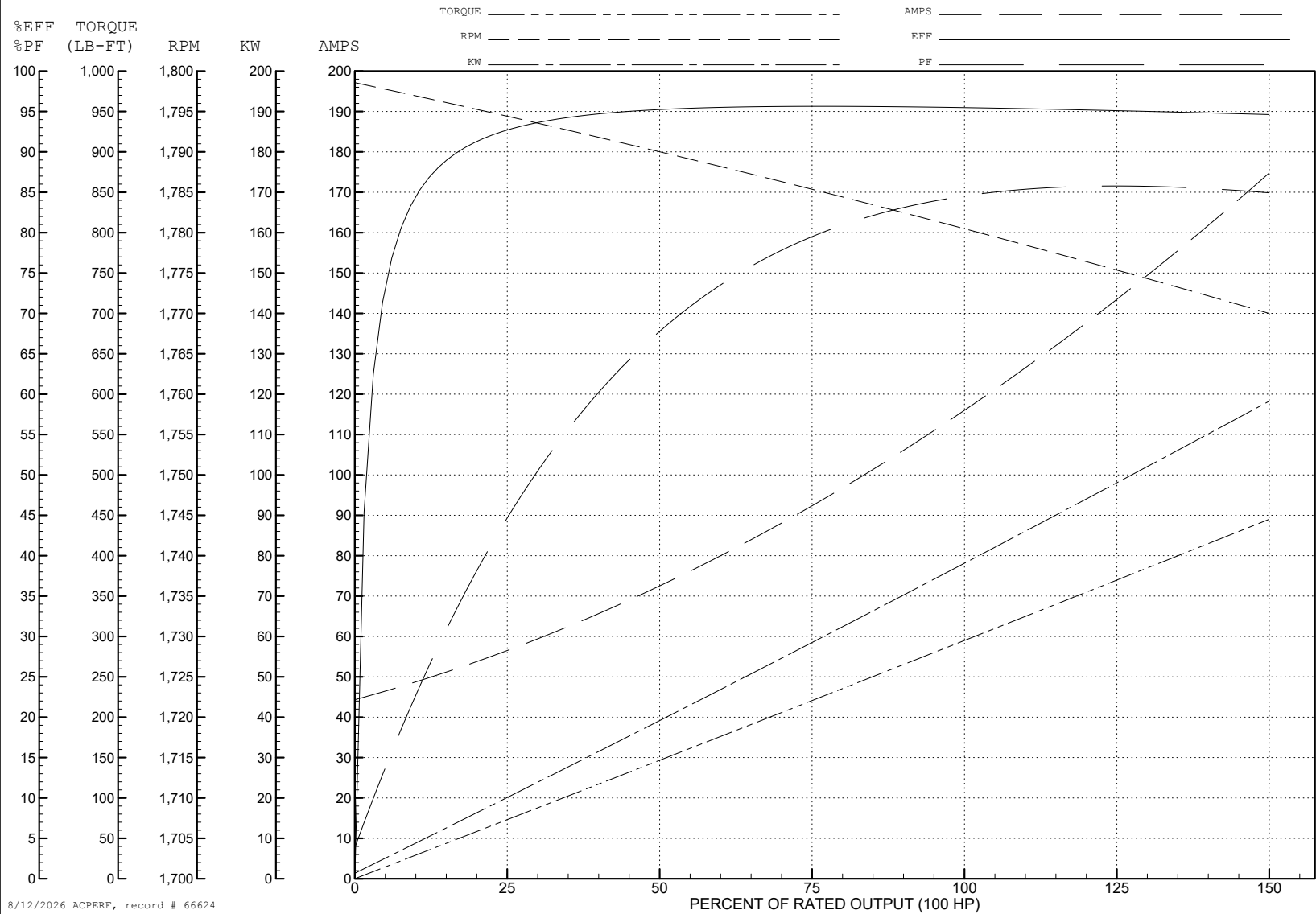
ABB Motors and Mechanical Inc.

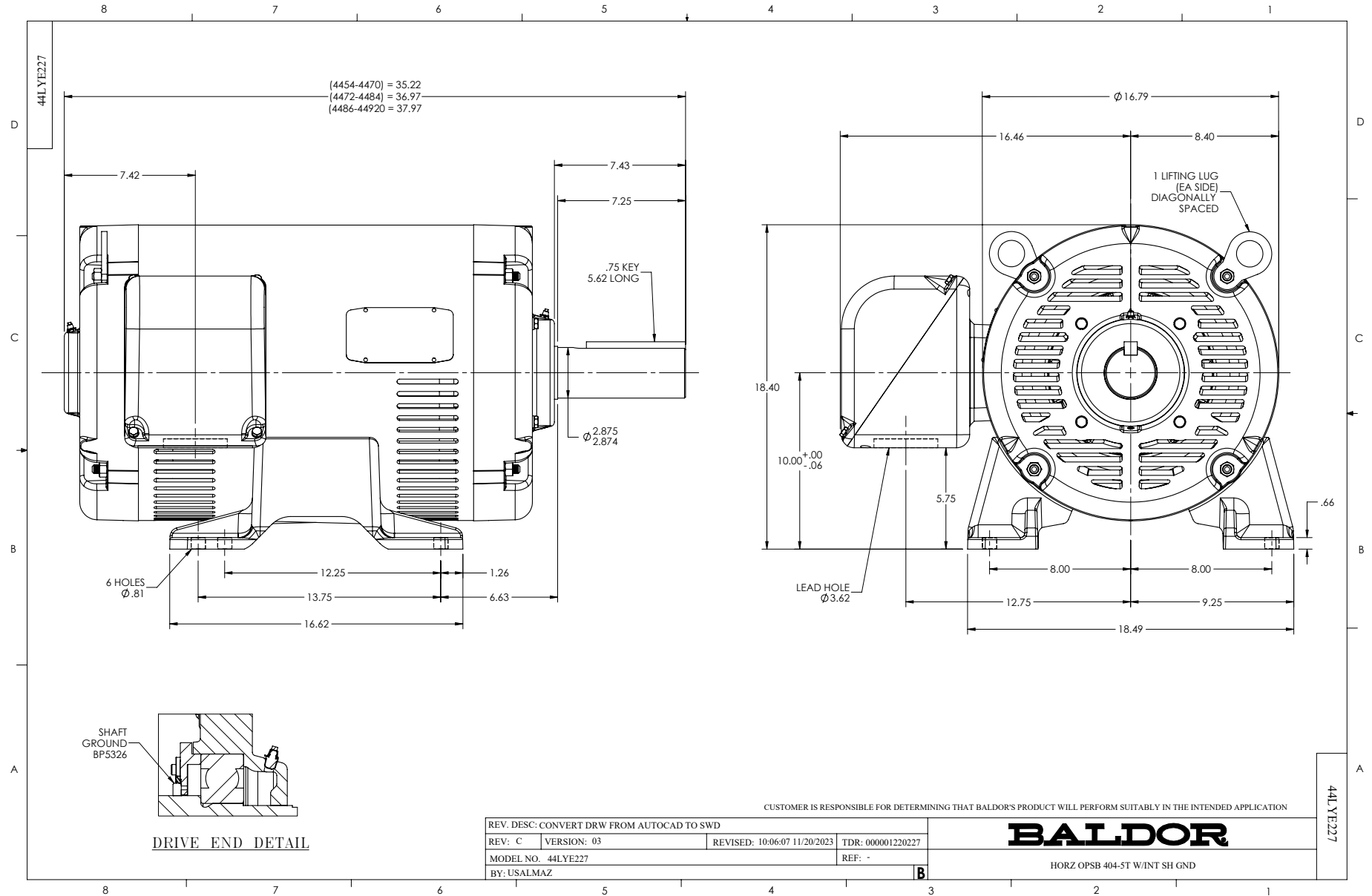
WINDING # 44WG390

Typical performance - not guaranteed values.

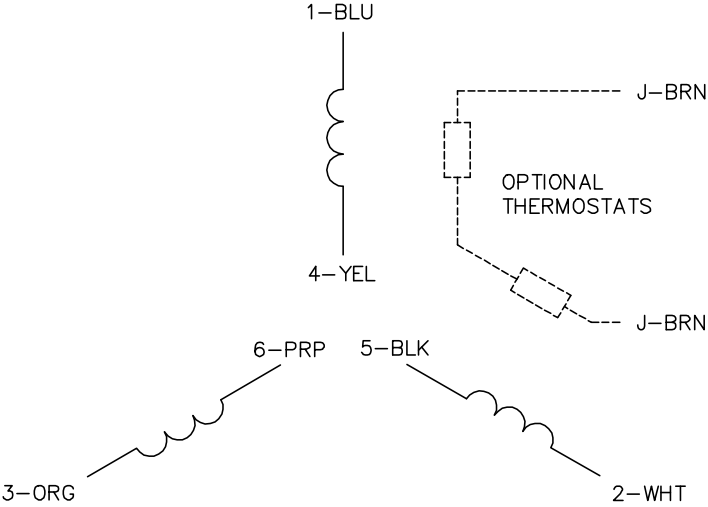
100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

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

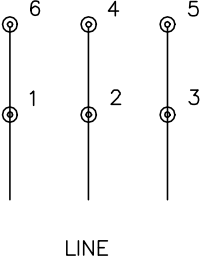




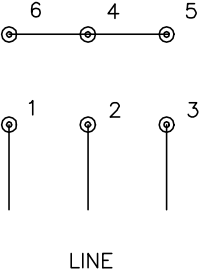
CD0382



RUN CONNECTION
(1D)



START CONNECTION
(1Y)



- 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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: F

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\243

REVISED: 09:05:32 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

SH 1 of 1

CD0382