

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											

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

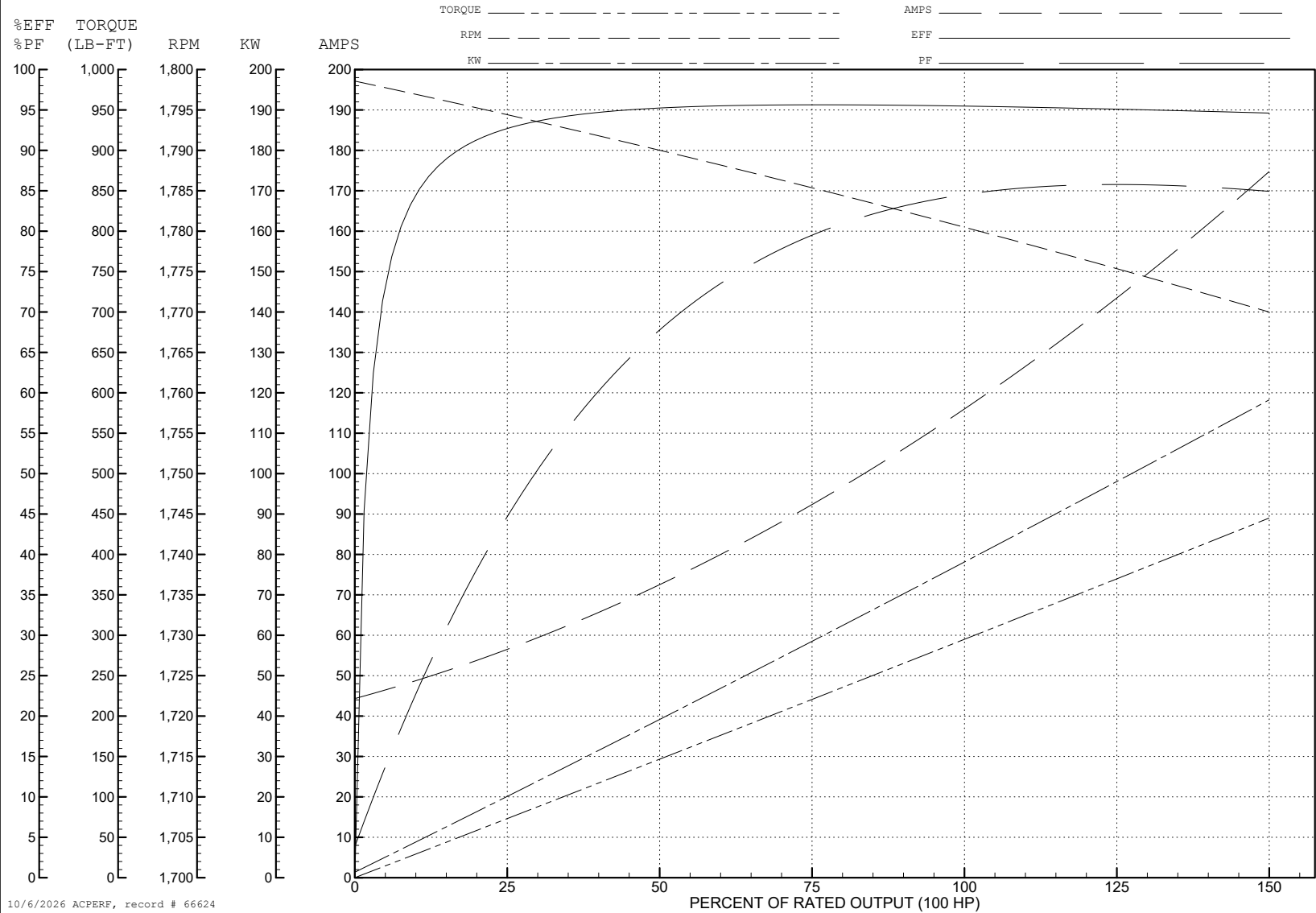
ABB Motors and Mechanical Inc.

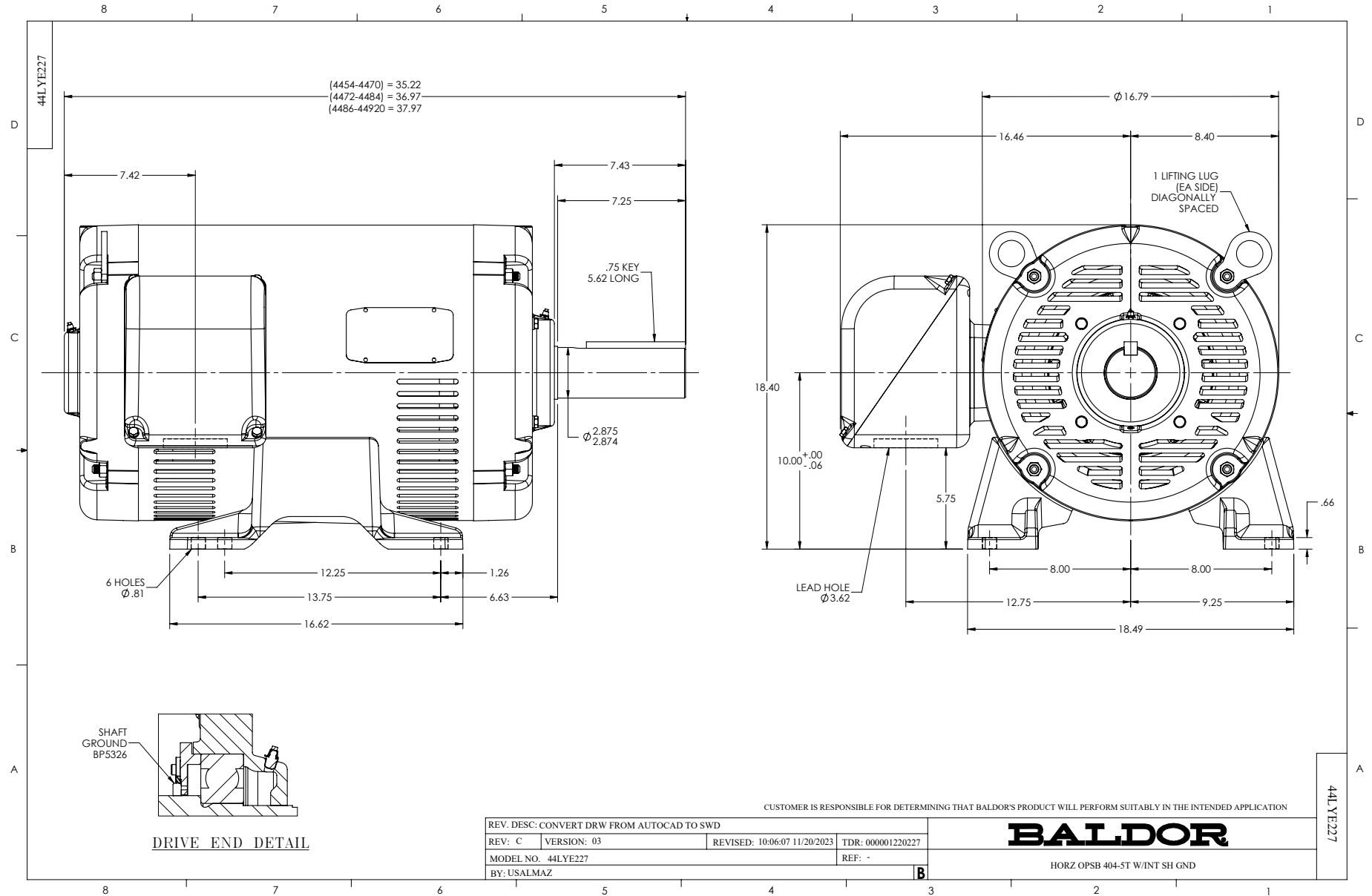
WINDING # 44WG390

Typical performance - not guaranteed values.

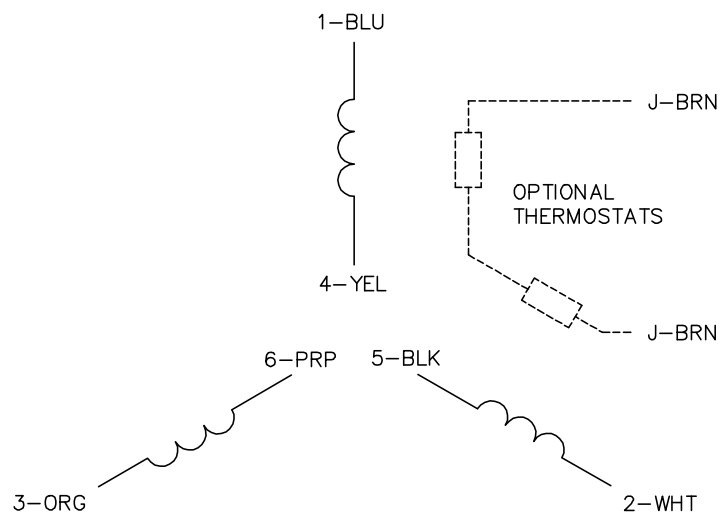
100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

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

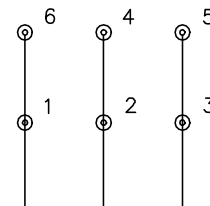




CD0382

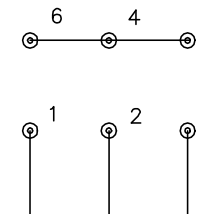


RUN CONNECTION
(1D)



LINE

START CONNECTION
(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.
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