

# **BALDOR**® • **RELIANCE**

## **Product Information Packet**

# **EHM2555T**

**100HP,1780RPM,3PH,60HZ,404T,4476M,OPSB,F**

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	4476M	Elec. Spec:	44WGW156	CD Diagram:	CD0180
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	44E066	Layout:	44LYE066
Frame:	404T	Mounting:	F1	Poles:	04	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	12-07-2016
Leads:	9#4					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2094E06B03	
CAT.NO.	EHM2555T
SPEC.	44E066W156G1
HP	100
VOLTS	230/460
AMPS	226/113
RPM	1780
FRAME	404T
	HZ 60
	PH 3
SER.F.	1.15
	CODE G
	DES B
	CL F
NEMA-NOM-EFF	95.4
	PF 85
RATING	40C AMB-CONT
CC	010A
	USABLE AT 208V 240
DE	6316
	ODE 6312
AUTO	
	MANUAL
	NONE
ENCL	OPSB
	SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA144446	SA 44E066W156G1	1.000 EA
RA133637	RA 44E066W156G1	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	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
19XW3816A16	.38-16 X 1.00 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	2.000 EA
44EP1202A12	PU ENDPLATE, MACH.	1.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	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
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

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
44AD2001A02	BAFFLE 44 OPEN,"X"=1.50, SLOTTED BAND MT	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.030 LB
44AD2001A02	BAFFLE 44 OPEN,"X"=1.50, SLOTTED BAND MT	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HA3175A04	THRUBOLT STUD 1/2-13 X 26.000 - GRADE 2	4.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.080 GA
LC0181	CONNECTION LABEL	1.000 EA
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
44PA1000	PK GP COMB PRINT 39-3/8X31X23-7/8	1.000 EA

**AC Induction Motor Performance Data**

Record # 53044 - Typical performance - not guaranteed values

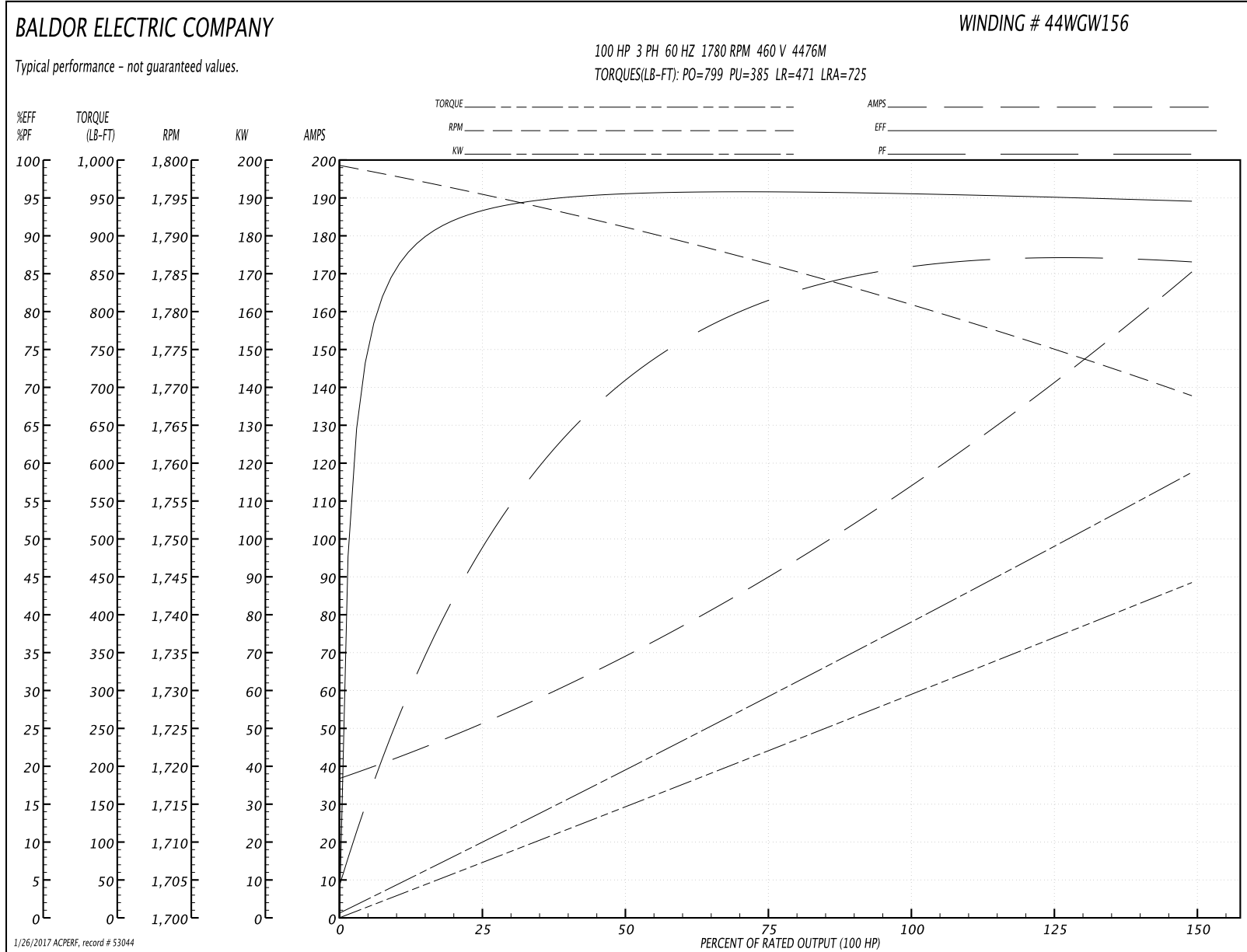
<b>Winding:</b> 44WGW156-R004	<b>Type:</b> 4476M	<b>Enclosure:</b> OPSB
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	100			Full Load Torque	295 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	226/113			Breakdown Torque	799 LB-FT
R.P.M.	1780			Pull-up Torque	385 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	471 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	725 A
Service Factor (S.F.)	1.15			No-load Current	37.1 A
NEMA Nom. Eff.	95.4	Power Factor	85	Line-line Res. @ 25°C	0.0501 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	40°C
S.F. Amps				Temp. Rise @ S.F. Load	48°C
				Locked-rotor Power Factor	25
				Rotor inertia	14.4 LB-FT <sup>2</sup>

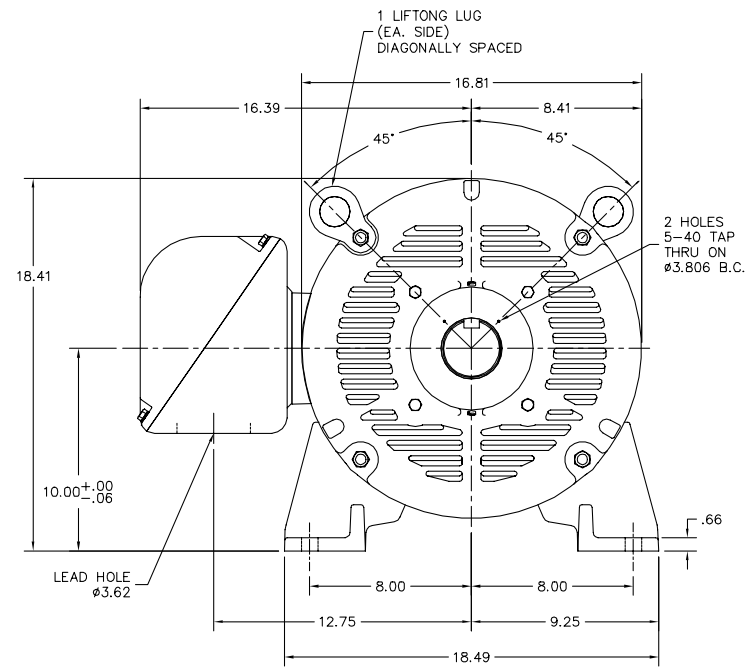
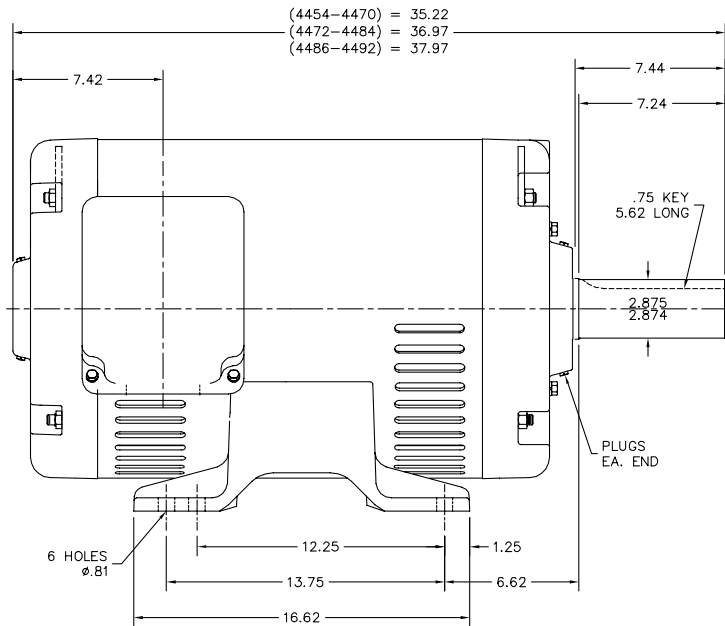
Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	87	86	87	86
Efficiency	93.1	95.4	95.8	95.6	95.2	94.5	95.4
Speed	1796	1791	1786	1781	1775	1769	1777
Line amperes	51	69	91	113	142	170	130

Performance Graph at 460V, 60Hz, 100.0HP Typical performance - Not guaranteed values



44LYE066



44LYE066

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: ADDED MISSING DIMENSION		
REV. LTR: C	VERSION: 03	TDR: 000000B58752
FILE: \AAA\00079\703	REVISED: 09:17:56 06/18/2014	BY: ENNINDO
MTL: -		

**BALDOR**

HORZ OPSB 404-5T HVAC W/1/2 SH GND MTG  
SH 1 of 1

CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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: C	BY: JLP	REVISED: 01/21/99 2:28	TDR: 0171435
0810D0		FILE: AAA00005148	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180