

**BALDOR® • RELIANCE** 

**Product Information Packet**

**FPM3312T**

**10//7.5HP,3490//2900RPM,3PH,60//50HZ,213**

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGR891	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37N755	Layout:	37LYN755	Poles:	02	Created Date:	09-23-2015
Base:	RG	Eff. Date:	07-18-2019	Leads:	9#14		

Specs			
Catalog Number:	FPM3312T	Front Face Code:	Standard
Enclosure:	OPSB	Front Shaft Indicator:	None
Frame:	213T	Heater Indicator:	No Heater
Frame Material:	Steel	Insulation Class:	F
Output @ Frequency:	7.500 HP @ 50 HZ	Inverter Code:	Not Inverter
	10.000 HP @ 60 HZ	KVA Code:	H
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	380.0 V @ 50 HZ	Locked Bearing Indicator:	No Locked Bearing
	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
	190.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3728M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	86
	UL	Product Family:	General Purpose
	CSA EEV	Pulley End Bearing Type:	Ball
	CSA	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard

<b>Auxillary Box Lead Termination:</b>	None	<b>Rodent Screen:</b>	None
<b>Base Indicator:</b>	Rigid	<b>Shaft Extension Location:</b>	Pulley End
<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Blower:</b>	None	<b>Shaft Rotation:</b>	Reversible
<b>Current @ Voltage:</b>	24.000 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
	22.000 A @ 190.0 V	<b>Speed Code:</b>	Single Speed
	12.000 A @ 460.0 V	<b>Motor Standards:</b>	NEMA
	11.000 A @ 380.0 V	<b>Starting Method:</b>	Direct on line
<b>Design Code:</b>	B	<b>Thermal Device - Bearing:</b>	None
<b>Drip Cover:</b>	No Drip Cover	<b>Thermal Device - Winding:</b>	None
<b>Duty Rating:</b>	CONT	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Winding Thermal 1:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Winding Thermal 2:</b>	None

Nameplate NP3454L											
CAT.NO.	FPM3312T			CUST P/N				I.P.	23		
SPEC.	37N755R891H2			SER.NO.				FRAME	213T		
HZ	60	HP	10	RPM	3490	HZ	50	HP	7.5	RPM	2900
VOLTS	230/460			CODE	H			VOLTS	190/380		
AMPS	24/12			DES	B			AMPS	22/11		
EFF	88.5	SER.F.	1.15	PF	86	EFF	87.5	SER.F.	1.15	PF	85
RATING	40C AMB-CONT			DE BRG	6307			GREASE	POLYREX EM		
BLANK				ODE BRG	6206			MTR. WT.	121		
				CLASS	F			PH	3		
				ENCL	OPSB			CC	010A		
HTR-VOLTS		HTR-AMPS		HTR-WATTS							

Parts List		
Part Number	Description	Quantity
SA307830	SA 37N755R891H2	1.000 EA
RA295150	RA 37N755R891H2	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 EA
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37EP3203A00	MASTER,ODE,206 BRG,GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3204D00	MASTER,DE,307 BRG,GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1025R44	WILKOFASST, 784.109, CARMINE RED #3002	0.028 GA
HA3104A39	THRUBOLT-5/16-18 X 12.250	4.000 EA
37AD2001A01	BAFFLE PLATE, PLASTIC 0.63" WIDTH	2.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
NP3454L	ALUM FIRE PUMP MOTOR(LEGACY/BALDOR ONLY)	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 54378 - Typical performance - not guaranteed values

<b>Winding:</b> 37WGR891-R001	<b>Type:</b> 3728M	<b>Enclosure:</b> OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10//7.5			Full Load Torque	14.9 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	24/12//22/11			Breakdown Torque	49.7 LB-FT
R.P.M.	3490//2900			Pull-up Torque	21.2 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	24.6 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	81 A
Service Factor (S.F.)	1.15			No-load Current	4.66 A
NEMA Nom. Eff.	88.5	Power Factor	86	Line-line Res. @ 25°C	1.2451 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	45°C
				Locked-rotor Power Factor	38.6

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	86	88	89	87
Efficiency	85.4	90	90.5	89.9	88.7	87.2	89.2
Speed	3576	3552.4	3527.2	3498.8	3467	3435.1	3480
Line amperes	5.45	7.17	9.45	12	14.9	17.9	13.7

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

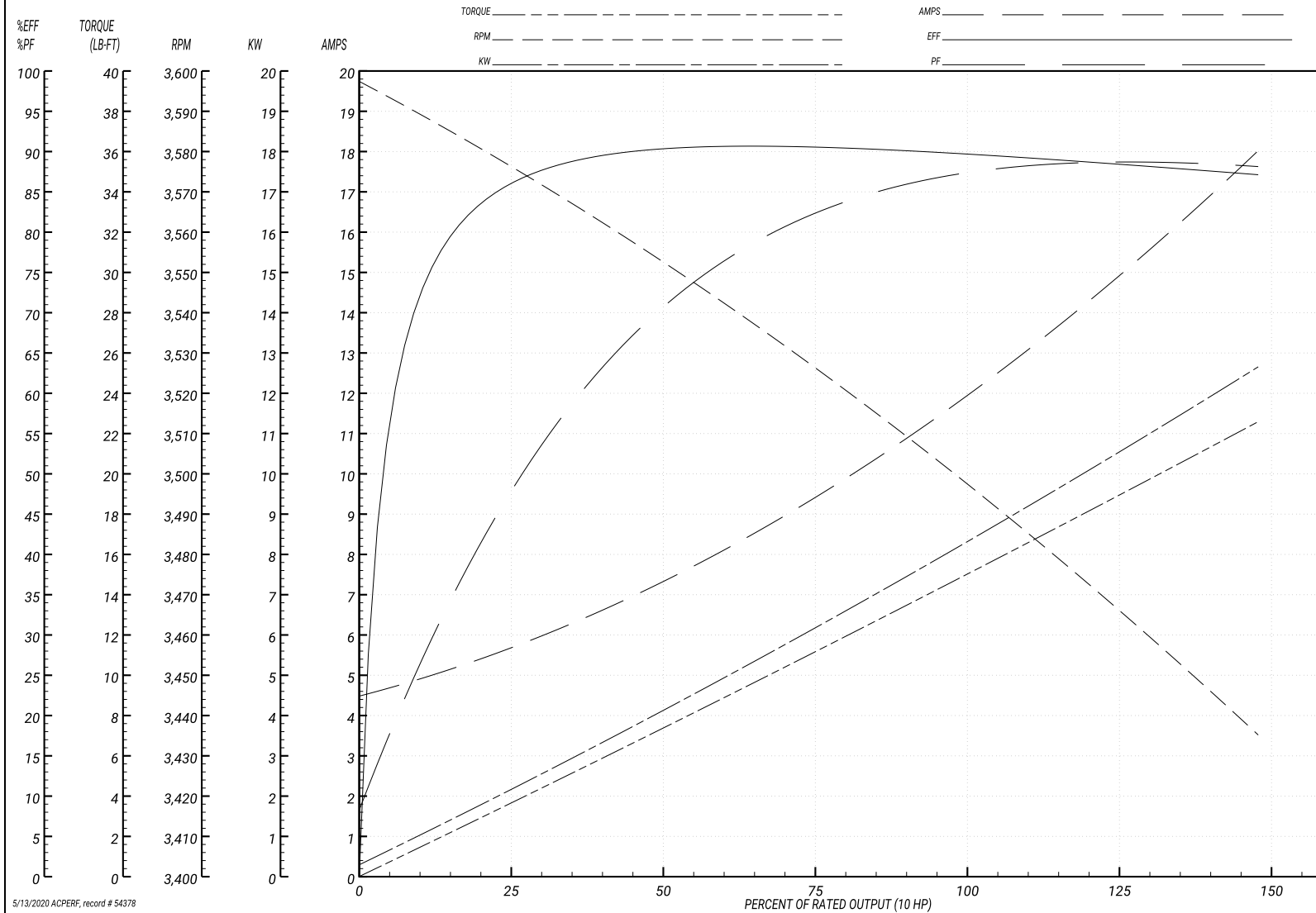
ABB Motors and Mechanical Inc.

WINDING # 37WGR891

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3498.8 RPM 460 V 3728M

TORQUES(LB-FT): PO=49.7 PU=21.2 LR=24.6 LRA=81



5/13/2020 ACPERF, record # 54378

**AC Induction Motor Performance Data**

Record # 54379 - Typical performance - not guaranteed values

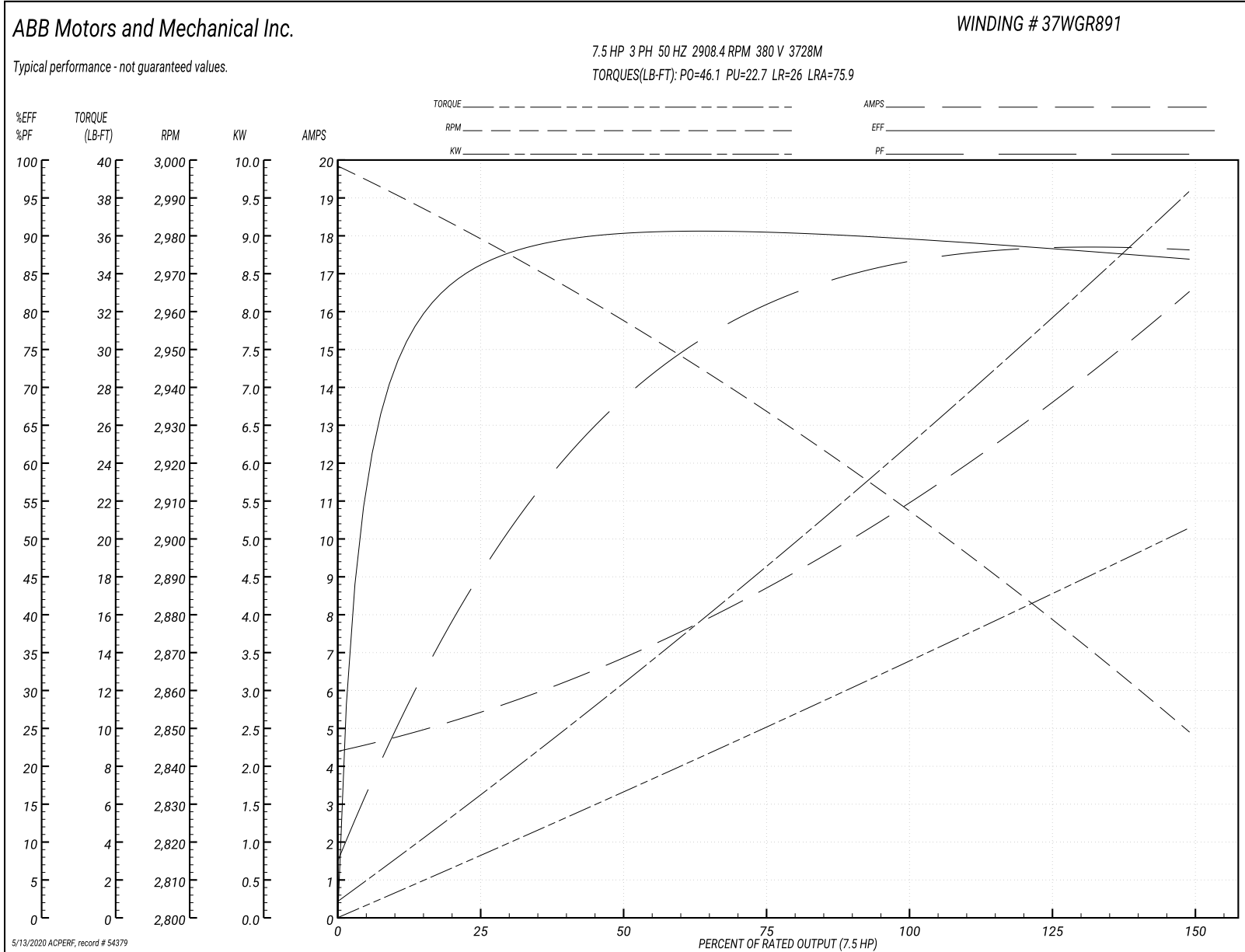
<b>Winding:</b> 37WGR891-R001	<b>Type:</b> 3728M	<b>Enclosure:</b> OPSB
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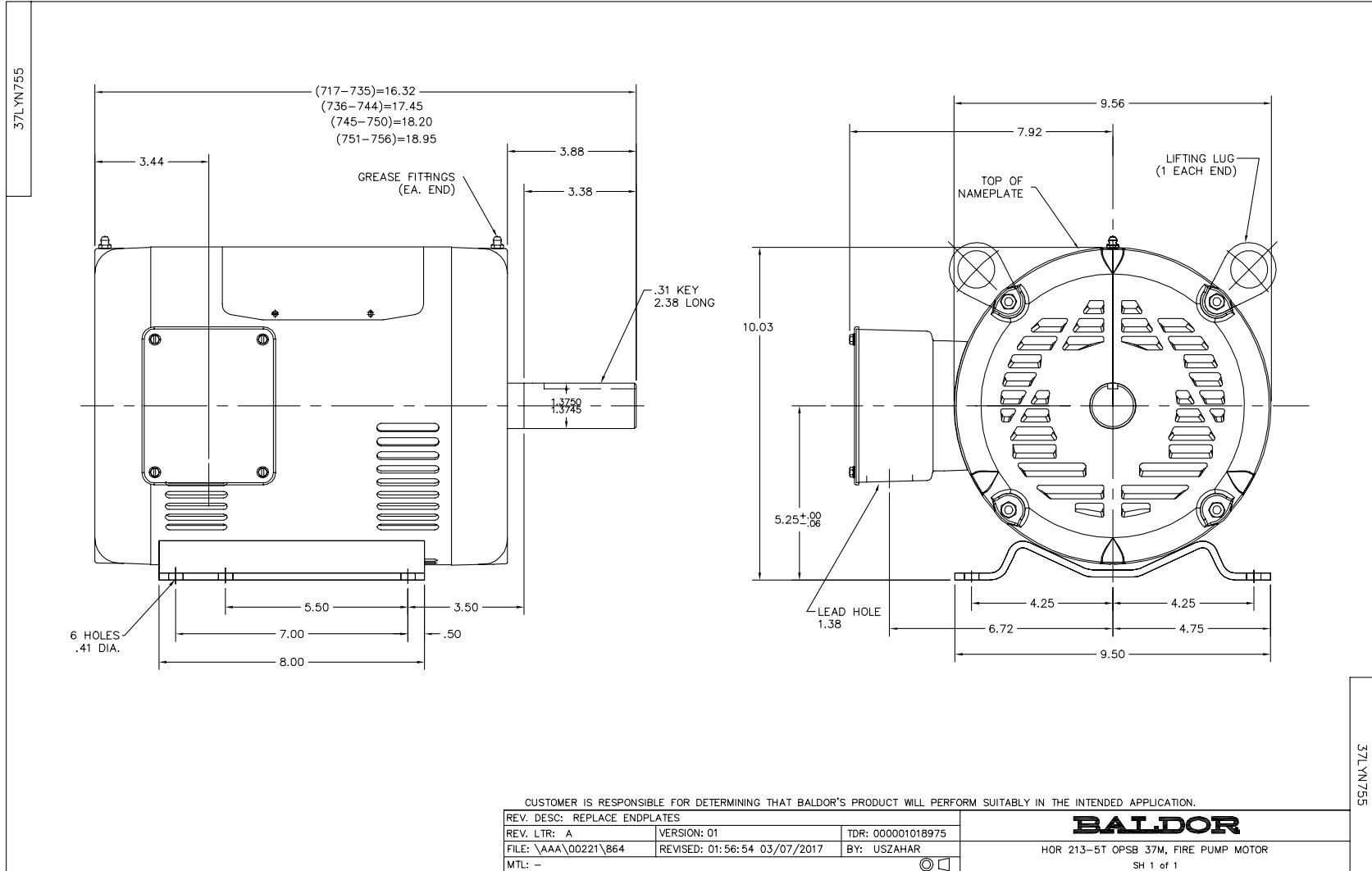
Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	10//7.5			Full Load Torque	13.5 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	24/12//22/11			Breakdown Torque	46.1 LB-FT
R.P.M.	3490//2900			Pull-up Torque	22.7 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	26 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	75.9 A
Service Factor (S.F.)	1.15			No-load Current	4.57 A
NEMA Nom. Eff.	88.5	Power Factor	86	Line-line Res. @ 25°C	1.2451 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	33°C
S.F. Amps				Temp. Rise @ S.F. Load	41°C

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	81	85	88	89	87
Efficiency	85.8	90	90.5	89.8	88.5	86.9	89
Speed	2978.5	2956.8	2933.7	2908.4	2878.8	2848.7	2891
Line amperes	5.22	6.77	8.73	11.1	13.7	16.4	12.7

Performance Graph at 380V, 50Hz, 7.5HP Typical performance - Not guaranteed values

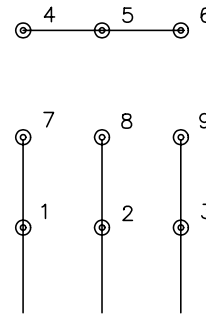




CD0005

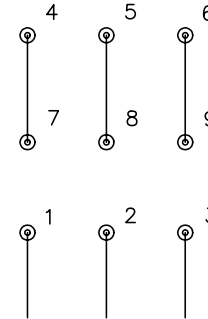


LOW VOLTAGE  
(2Y)



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

9000D

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005