

**BALDOR® • RELIANCE** 

**Product Information Packet**

**FPM2555TS**

**100//75HP,1775//1475RPM,3PH,60//50HZ,404**

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	44WG056	CD Diagram:	CD0104	Mfg Plant:	
Mech. Spec:	44E020	Layout:	44LYE020	Poles:	04	Created Date:	09-17-2015
Base:	RG	Eff. Date:	02-07-2019	Leads:	12#6		

Specs			
Catalog Number:	FPM2555TS	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	404TS	Inverter Code:	Not Inverter
Frame Material:	Steel	IP Rating:	NONE
Output @ Frequency:	75.000 HP @ 50 HZ	KVA Code:	F
	100.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	190.0 V @ 50 HZ	Motor Lead Quantity/Wire Size:	12 @ 6 AWG
	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	380.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	4462M
Agency Approvals:	UL	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	85
Auxillary Box:	No Auxillary Box	Product Family:	Fire Pump Motor
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None

<b>Current @ Voltage:</b>	252.000 A @ 208.0 V	<b>Shaft Extension Location:</b>	Pulley End
	234.000 A @ 230.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	214.000 A @ 190.0 V	<b>Shaft Rotation:</b>	Reversible
	117.000 A @ 460.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
	107.000 A @ 380.0 V	<b>Speed Code:</b>	Single Speed
<b>Design Code:</b>	B	<b>Motor Standards:</b>	NEMA
<b>Drip Cover:</b>	No Drip Cover	<b>Starting Method:</b>	Wye Start - Delta Run
<b>Duty Rating:</b>	CONT	<b>Thermal Device - Bearing:</b>	None
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Winding:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Face Code:</b>	Standard	<b>Winding Thermal 1:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 2:</b>	None

Nameplate NP3454L											
CAT.NO.	FPM2555TS			CUST P/N				I.P.	23		
SPEC.	44E020W056H3			SER.NO.				FRAME	404TS		
HZ	60	HP	100	RPM	1775	HZ	50	HP	75	RPM	1475
VOLTS	230/460			CODE	F	VOLTS	190/380			CODE	G
AMPS	234/117			DES	B	AMPS	214/107			DES	B
EFF	94.1	SER.F.	1.15	PF	85	EFF	93.6	SER.F.	1.15	PF	84
RATING	40C AMB-CONT			DE BRG	6313			GREASE	POLYREX EM		
BLANK				ODE BRG	6312			MTR. WT.	597		
				CLASS	F			PH	3		
				ENCL	OPSB			CC	010A		
HTR-VOLTS		HTR-AMPS		HTR-WATTS							

Parts List		
Part Number	Description	Quantity
SA311891	SA 44E020W056H3	1.000 EA
RA299328	RA 44E020W056H3	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
12CB1002A52	KOBX W/3.62 DIA LH, 3.88 MTG, .50-13 GND	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
WD1000B53	TERMINAL BURNDY KPA34	1.000 EA
10XN5013K10	1/2-13 X .625 HEX HD, GRADE 5	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 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
44EP1203A01	PU ENDPLATE, MACH	1.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 EA
18CB1501A01	CONDUIT BOX LID, MODEL 318 OPEN	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
HW2501H24	KEY, 1/2 SQ X 2.750	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1025R44	WILKOFASST, 784.109, CARMINE RED #3002	0.050 GA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	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	2.000 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
HA3175A03	THRUBOLT STUD 1/2-13 X 24.250 - GRADE 2	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0104A01	CONNECTION DIAGRAM	1.000 EA
NP3454L	ALUM FIRE PUMP MOTOR(LEGACY/BALDOR ONLY)	1.000 EA
44PA1000	PK GP COMB PRINT 39-3/8X31X23-7/8	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA

**AC Induction Motor Performance Data**

Record # 52880 - Typical performance - not guaranteed values

<b>Winding:</b> 44WGW056-R002	<b>Type:</b> 4462M	<b>Enclosure:</b> OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	100//75			Full Load Torque	295 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	234/117//214/107			Breakdown Torque	776 LB-FT
R.P.M.	1775//1475			Pull-up Torque	310 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	440 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	680 A
Service Factor (S.F.)	1.15			No-load Current	43.2 A
NEMA Nom. Eff.	94.1	Power Factor	85	Line-line Res. @ 25°C	0.0628 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
S.F. Amps				Temp. Rise @ S.F. Load	70°C
				Locked-rotor Power Factor	26
				Rotor inertia	11.7 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	51	73	82	85	86	85	86
Efficiency	90.2	93.6	94.3	94.1	93.6	92.6	93.8
Speed	1794	1789	1783	1777	1771	1763	1773
Line amperes	50.7	68.5	91.4	117	145.9	177.8	134.3

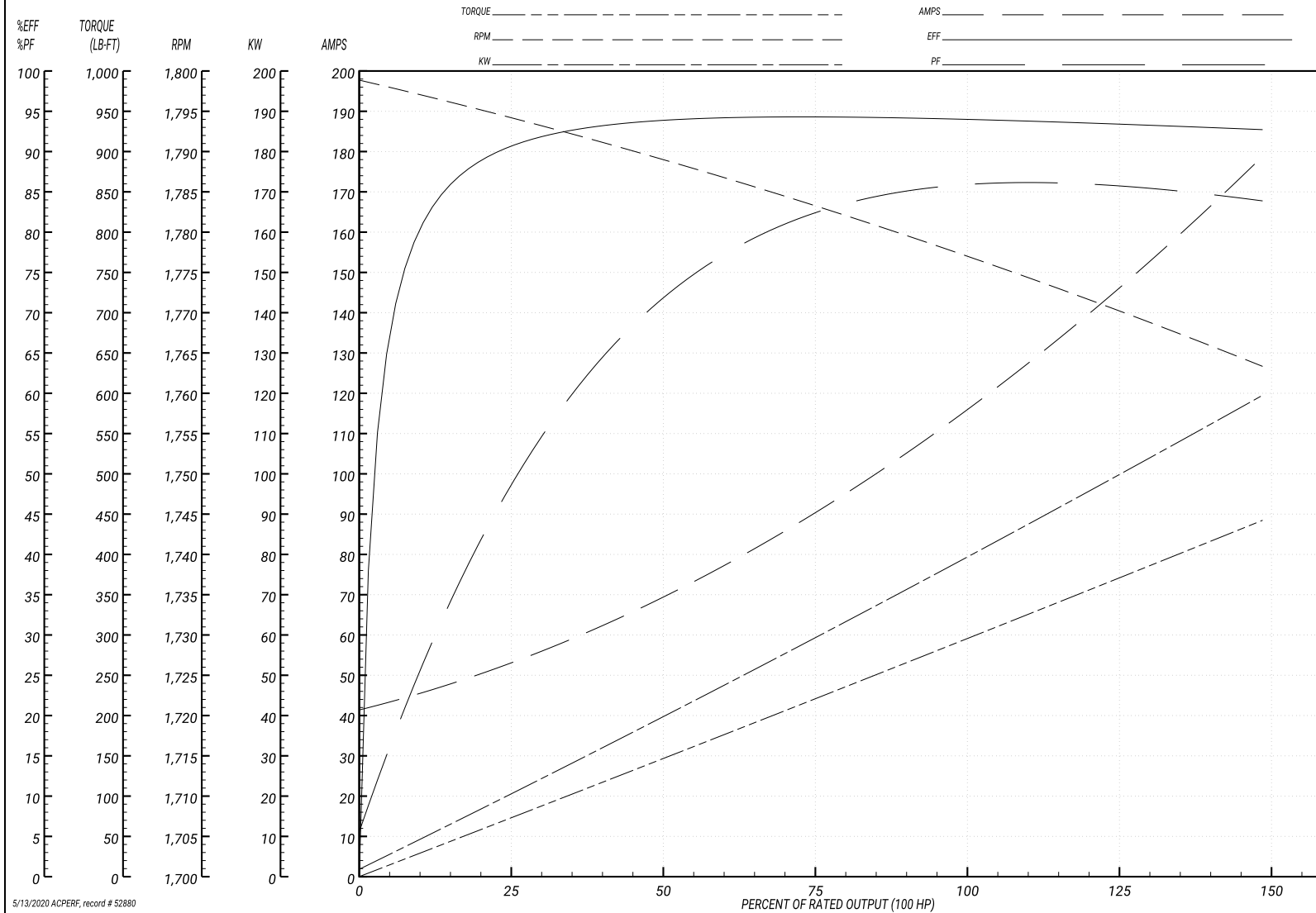
Performance Graph at 460V, 60Hz, 100.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 44WGW056

Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 1777 RPM 460 V 4462M  
 TORQUES(LB-FT): PO=776 PU=310 LR=440 LRA=680



5/13/2020 ACPERF, record # 52880

**AC Induction Motor Performance Data**

Record # 52881 - Typical performance - not guaranteed values

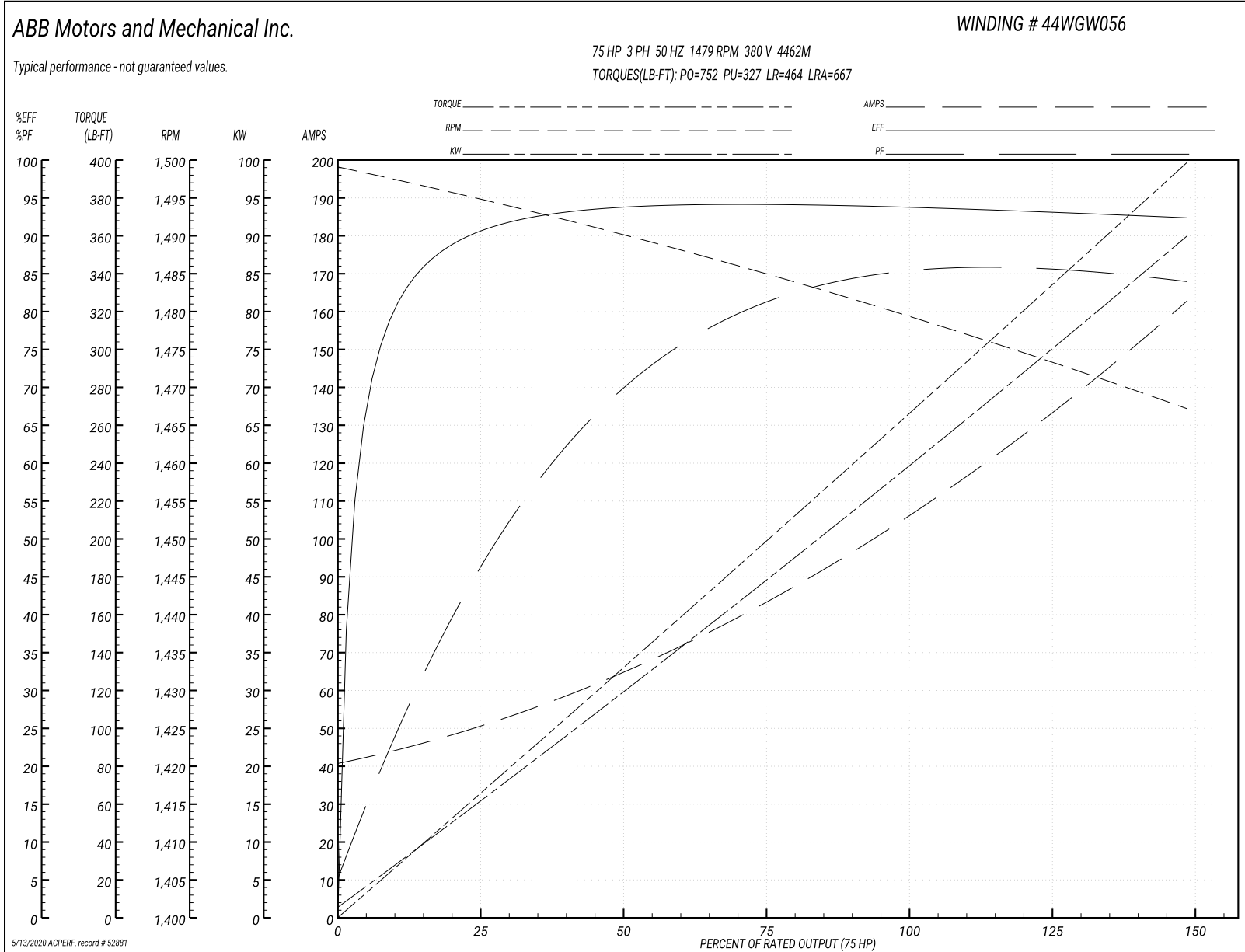
<b>Winding:</b> 44WGW056-R002	<b>Type:</b> 4462M	<b>Enclosure:</b> OPSB
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	100//75			Full Load Torque	266 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	234/117//214/107			Breakdown Torque	752 LB-FT
R.P.M.	1775//1475			Pull-up Torque	327 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	464 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	667 A
Service Factor (S.F.)	1.15			No-load Current	42.3 A
NEMA Nom. Eff.	94.1	Power Factor	85	Line-line Res. @ 25°C	0.0622 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	46°C
S.F. Amps				Temp. Rise @ S.F. Load	56°C
				Locked-rotor Power Factor	28.6
				Rotor inertia	11.7 LB-FT <sup>2</sup>

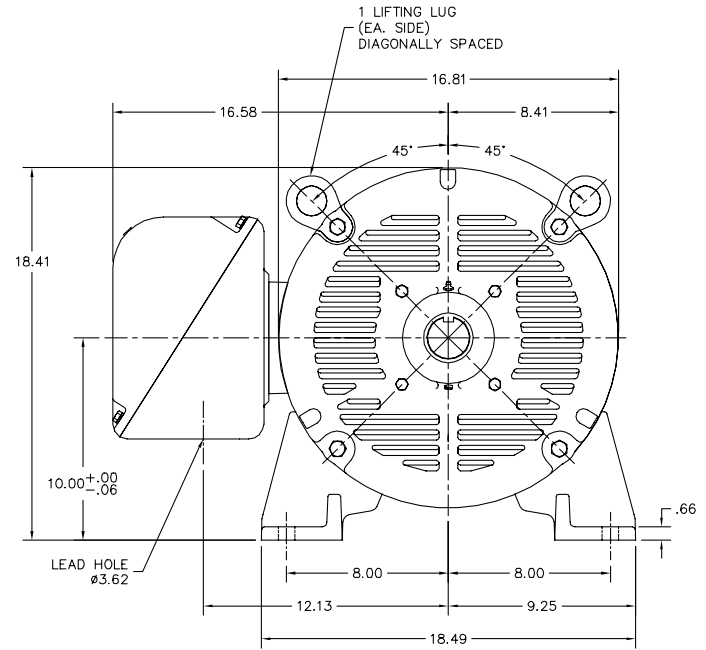
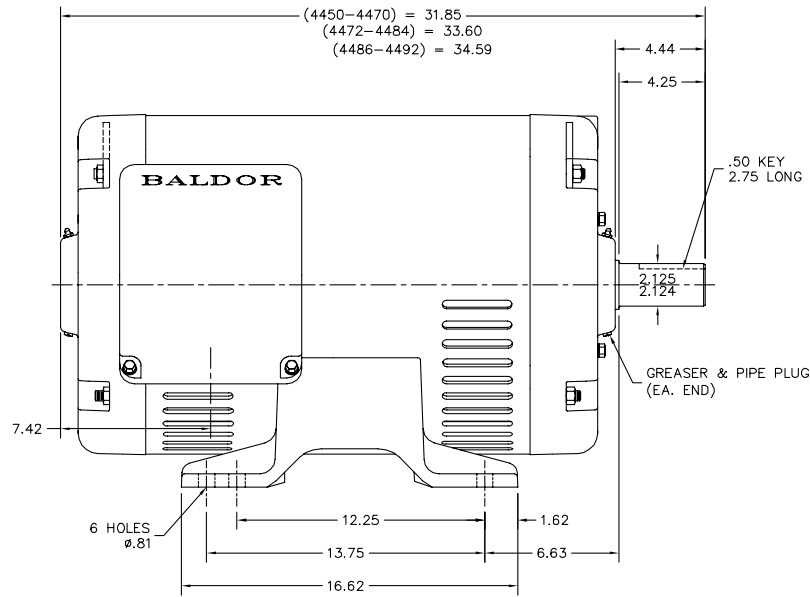
Load Characteristics 380 V, 50 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	80	84	85	84	85
Efficiency	90.2	93.6	94.1	94	93.2	92.3	93.5
Speed	1495	1490	1485	1479	1474	1467	1476
Line amperes	48.6	64	84.3	107	133	162	123

Performance Graph at 380V, 50Hz, 75.0HP Typical performance - Not guaranteed values



44LYE020



44LYE020

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

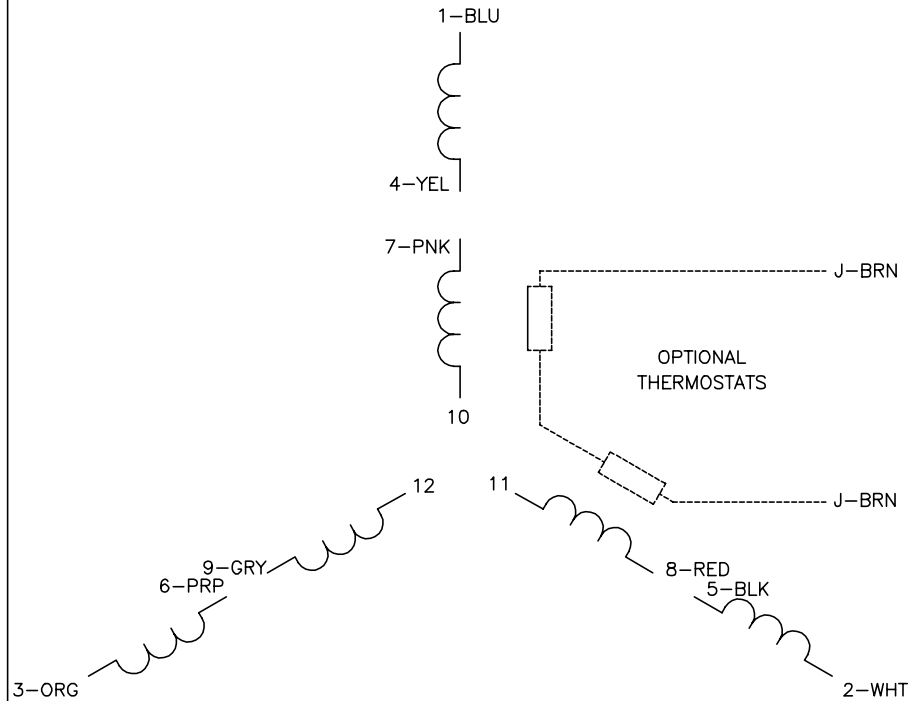
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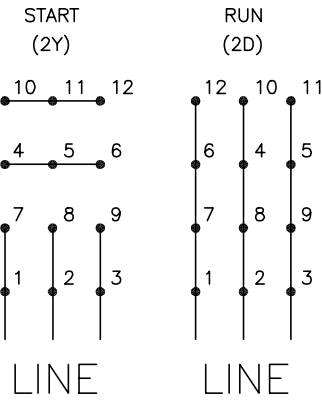
HORZ OPSB 404-5TS

SH 1 of 1

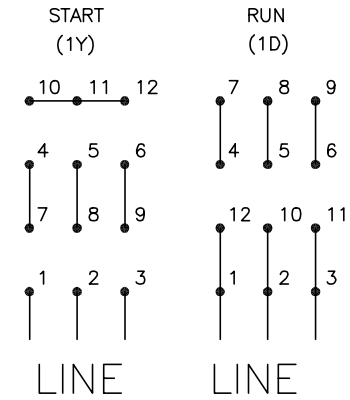
CD0104



**LOW VOLTAGE**



**HIGH VOLTAGE**



**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.

CD0104

REV. DESC: ADD CLASS CONN00000007		
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FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 12 LEADS, Y START/D RUN

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