



Product Information Packet

FPM2559TS-4

125//100HP,1775//1475RPM,3PH,60//50HZ,40

Part Detail

Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	44WGW359	CD Diagram:	CD1480	Mfg Plant:	
Mech. Spec:	44E020	Layout:	44LYE020	Poles:	04	Created Date:	09-17-2015
Base:	RG	Eff. Date:	08-22-2018	Leads:	12#2		

Specs

Catalog Number:	FPM2559TS-4	Inverter Code:	Not Inverter
Enclosure:	OPSB	KVA Code:	F
Frame:	405TS	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	125.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 2 AWG
	100.000 HP @ 50 HZ	Motor Lead Exit:	Ko Box
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	Motor Lead Termination:	Flying Leads
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Type:	4476M
	380.0 V @ 50 HZ	Mounting Arrangement:	F1
Agency Approvals:	CSA EEV	Power Factor:	85
	UL	Product Family:	Fire Pump Motor
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	141.000 A @ 380.0 V	Shaft Ground Indicator:	No Shaft Grounding
	145.000 A @ 460.0 V	Shaft Rotation:	Reversible

Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Wye Start - Delta Run
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP3454L

CAT.NO.	FPM2559TS-4			CUST P/N				I.P.	23		
SPEC.	44E020W359H2			SER.NO.				FRAME	405TS		
HZ	60	HP	125	RPM	1775	HZ	50	HP	100	RPM	1475
VOLTS	460			CODE	F	VOLTS	380			CODE	F
AMPS	145			DES	B	AMPS	141			DES	B
EFF	94.5	SER.F.	1.15	PF	85	EFF	94.1	SER.F.	1.15	PF	85
RATING	40C AMB-CONT			DE BRG	6313			GREASE	POLYREX EM		
BLANK				ODE BRG	6312			MTR. WT.	595		
				CLASS	F			PH	3		
				ENCL	OPSB			CC	010A		
HTR-VOLTS				HTR-AMPS				HTR-WATTS			

Parts List		
Part Number	Description	Quantity
SA311894	SA 44E020W359H2	1.000 EA
RA299332	RA 44E020W359H2	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
18CB1006A52	CB 318 3.62 LD HL, .50-13 TAP GND & 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
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
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
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	WILKOFAS, 784.109, CARMINE RED #3002	0.050 GA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	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
HA3175A04	THRUBOLT STUD 1/2-13 X 26.000 - GRADE 2	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC1480	3PH,DV,12 LEAD,WYE START/DELTA RUN/PWS	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) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 52882 - Typical performance - not guaranteed values

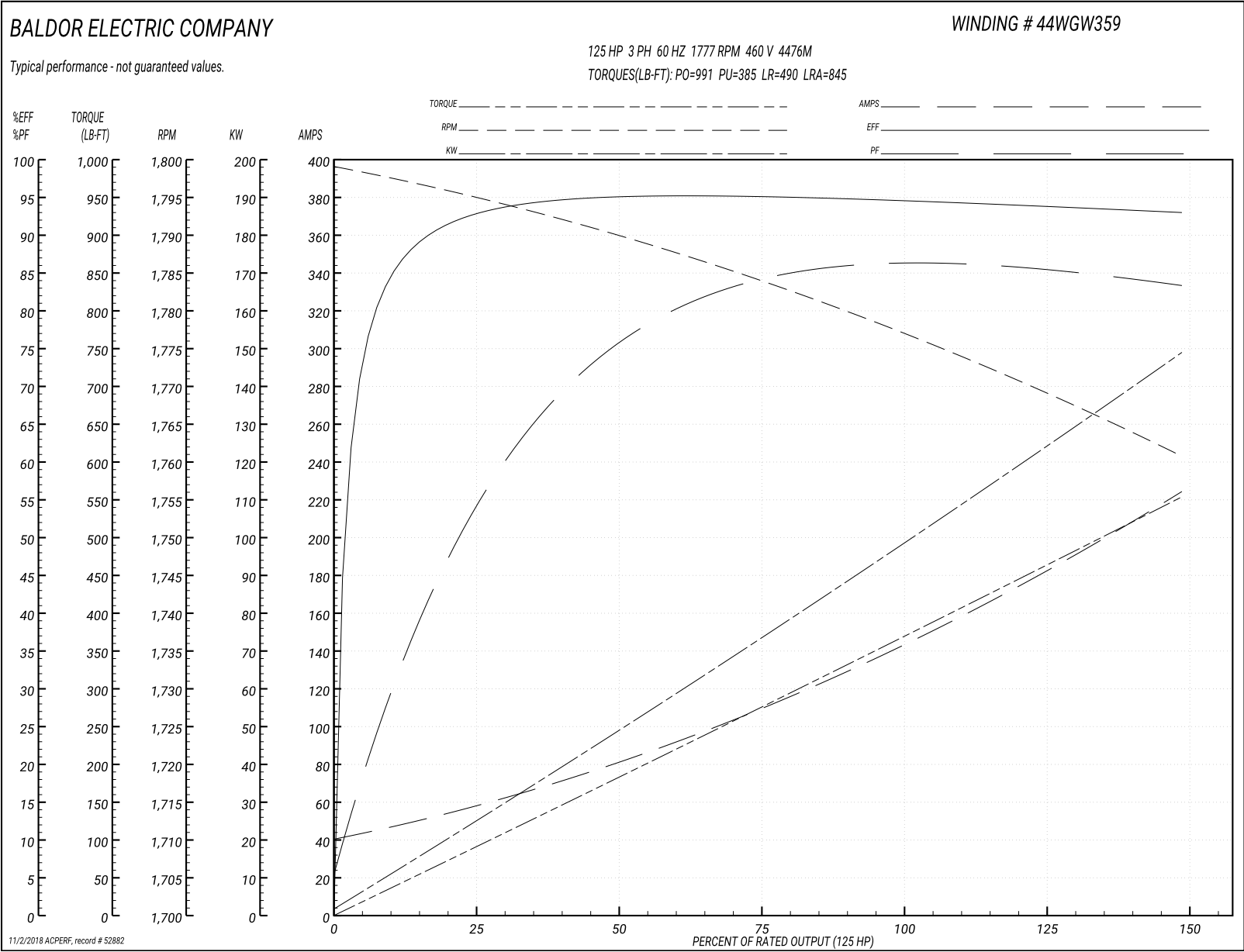
Winding: 44WGW359-R001	Type: 4476M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	125//100			Full Load Torque	369 LB-FT
Volts	460//380			Start Configuration	direct on line
Full Load Amps	145//141			Breakdown Torque	991 LB-FT
R.P.M.	1775//1475			Pull-up Torque	385 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	490 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	845 A
Service Factor (S.F.)	1.15			No-load Current	42.8 A
NEMA Nom. Eff.	94.5	Power Factor	85	Line-line Res. @ 25°C	0.0453 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	48°C
S.F. Amps				Temp. Rise @ S.F. Load	58°C
				Locked-rotor Power Factor	24.7
				Rotor inertia	14.4 LB-FT ²

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	77	83	85	85	84	85
Efficiency	92.6	95.2	95.1	94.6	93.9	93	94.2
Speed	1795	1790	1784	1777	1769	1761	1772
Line amperes	55.1	80.2	111	145	182	223	167

Performance Graph at 460V, 60Hz, 125.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 52883 - Typical performance - not guaranteed values

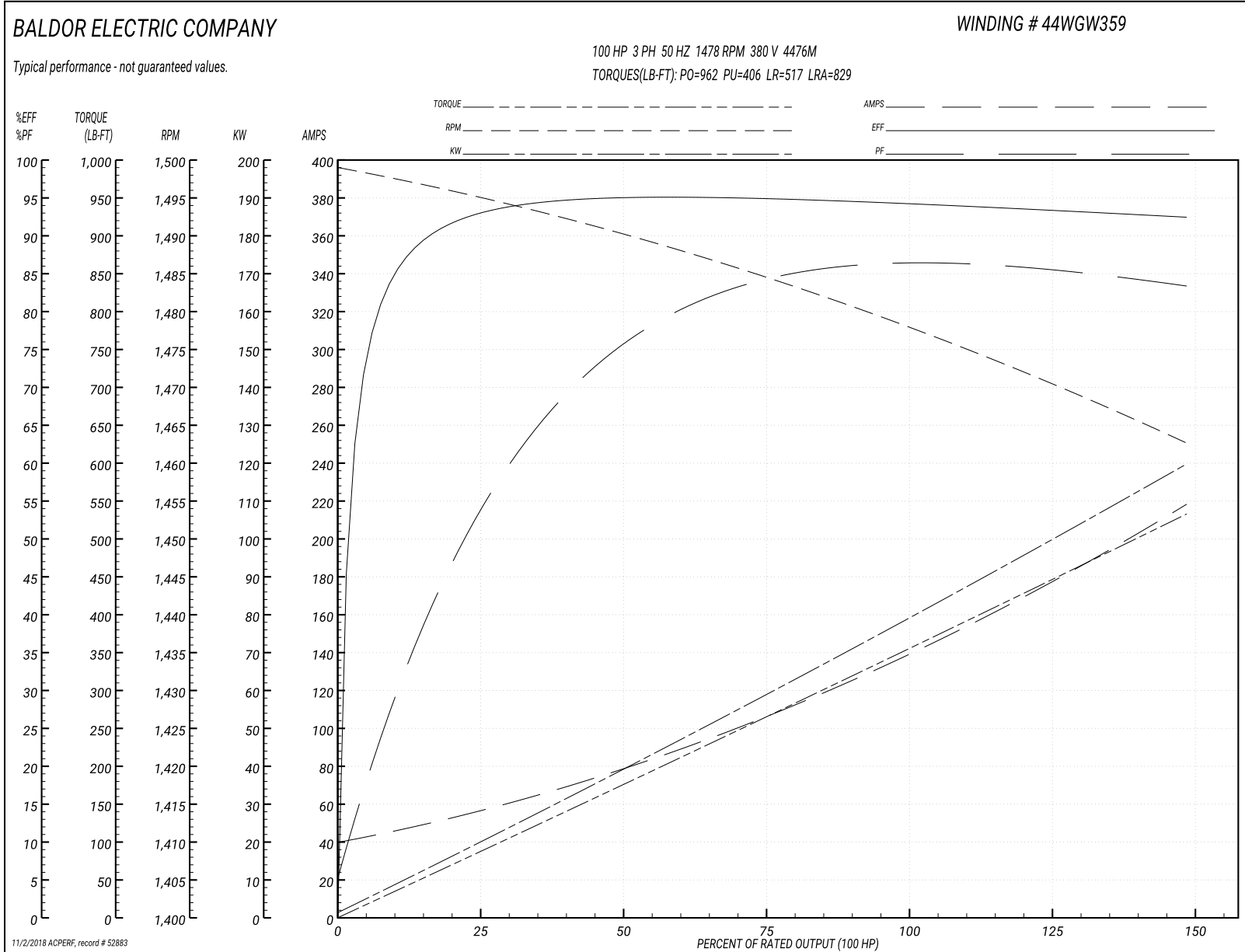
Winding: 44WGW359-R001	Type: 4476M	Enclosure: OPSB
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Nameplate Data				380 V, 50 Hz: Single Voltage Motor	
Rated Output (HP)	125//100			Full Load Torque	355 LB-FT
Volts	460//380			Start Configuration	direct on line
Full Load Amps	145//141			Breakdown Torque	962 LB-FT
R.P.M.	1775//1475			Pull-up Torque	406 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	517 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	829 A
Service Factor (S.F.)	1.15			No-load Current	42 A
NEMA Nom. Eff.	94.5	Power Factor	85	Line-line Res. @ 25°C	0.0453 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	45°C
S.F. Amps				Temp. Rise @ S.F. Load	55°C
				Locked-rotor Power Factor	27.4
				Rotor inertia	14.4 LB-FT ²

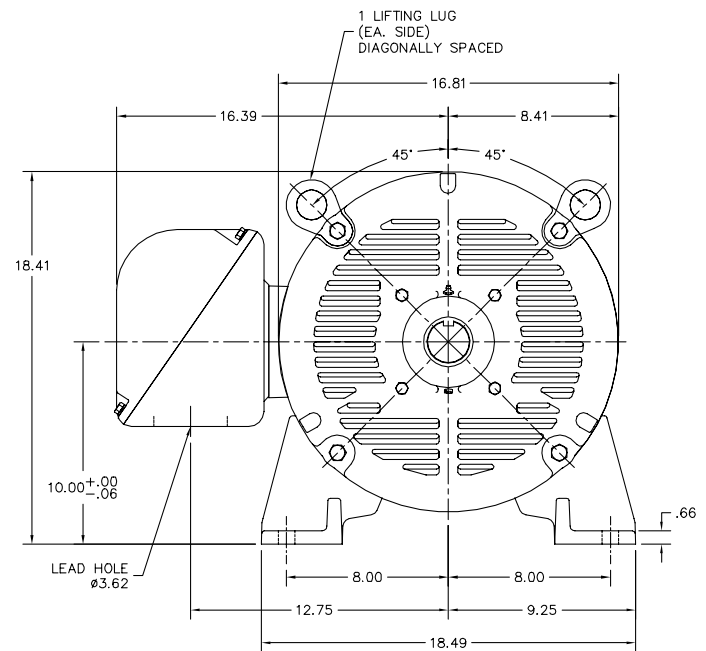
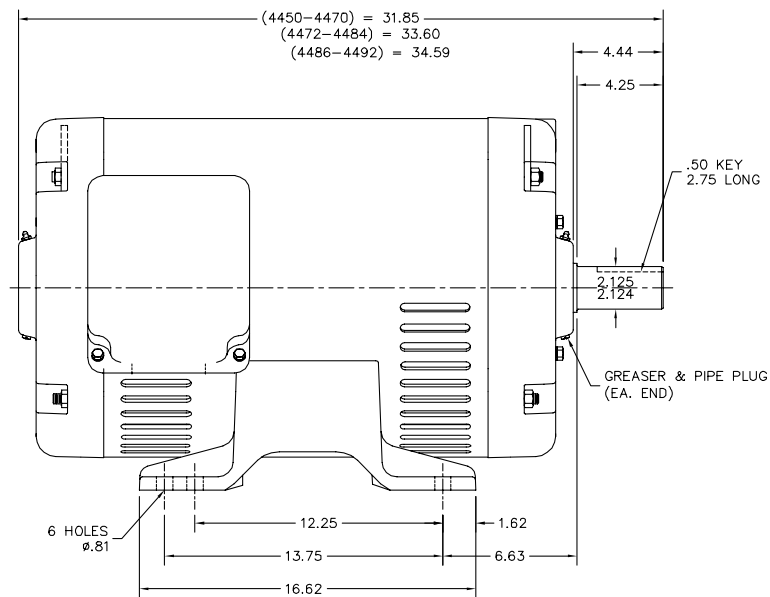
Load Characteristics 380 V, 50 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	77	84	85	85	84	85
Efficiency	92.9	94.7	94.9	94.3	93.5	92.4	93.9
Speed	1495	1490	1485	1478	1470	1463	1473
Line amperes	53.7	77.9	107	141	177	217	163

Performance Graph at 380V, 50Hz, 100.0HP Typical performance - Not guaranteed values



44LYE020



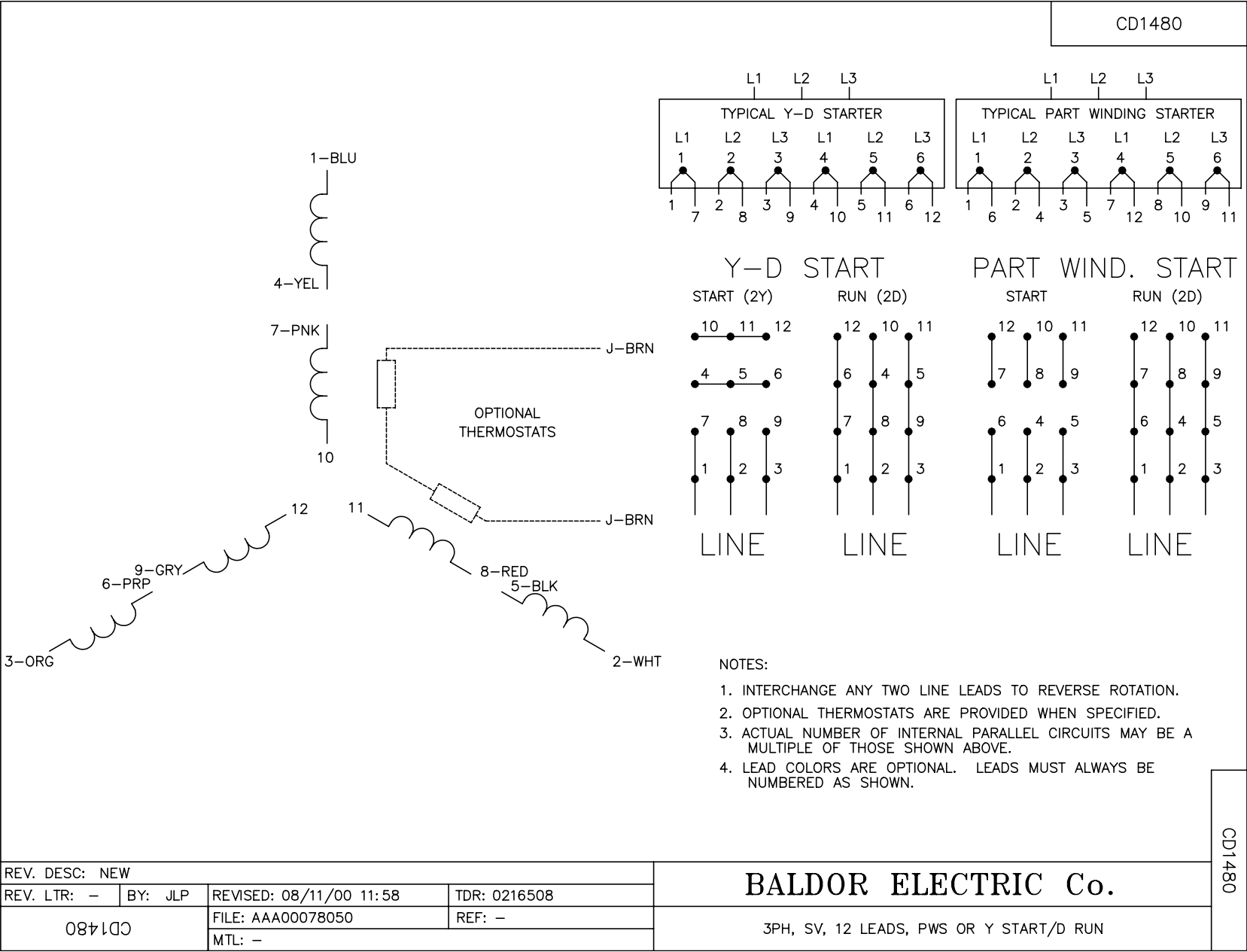
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REPLACE KOBX WITH 18CB1006A52	VERSION: 02	TDR: 000001032801
REV. LTR: F	REVISED: 03:56:34 06/21/2017	BY: ENBRISO
FILE: \AAA\00040\969		
MTL: -		

BALDOR

HORZ OPSB 404-STS
SH 1 of 1

44LYE020



1-BLU

4-YEL

7-PNK

10

12

11

9-GRY

6-PRP

3-ORG

8-RED

5-BLK

2-WHT

J-BRN

OPTIONAL THERMOSTATS

J-BRN

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: NEW

REV. LTR: -

BY: JLP

REVISED: 08/11/00 11:58

TDR: 0216508

081480

FILE: AAA00078050

REF: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 12 LEADS, PWS OR Y START/D RUN

CD1480