

BALDOR® • RELIANCE

Product Information Packet

OF3420T

20HP,1125RPM,3PH,60HZ,286T,1044M,OPEN,F2

Part Detail							
Revision:	T	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1044M	Elec. Spec:	10WGY235	CD Diagram:	CD0321
Enclosure:	OPEN	Mfg Plant:		Mech. Spec:	10H74	Layout:	10LYH074
Frame:	286T	Mounting:	F2	Poles:	06	Created Date:	05-19-2006
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-05-2017
Leads:	12#12 ML4400B12 Y					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2961E										
CAT.NO.	OF3420T									
SPEC.	10H074Y235									
HP	20									
VOLTS	230/460/796									
AMP	58/29/16.8									
RPM	1125									
FRAME	286T				HZ	60			PH	3
SER.F.	1.15		CODE	G	DES	D		CLASS	F	
NEMA-NOM-EFF	86.5			PF	74					
RATING	40C AMB-CONT									
CC					USABLE AT 208V					
DE	6310				ODE	6309				
ENCL	OPEN		SN							

Nameplate NP0090E

FRONT

6309

PULLEY

6310

LUBRICATE WITH

GREASE

POLYREX EM

Parts List		
Part Number	Description	Quantity
SA142863	SA 10H074Y235	1.000 EA
RA132137	RA 10H074Y235	1.000 EA
10CB1000A09	CONDUIT BOX, MACH	1.000 EA
10GS1001	GASKET CONDUIT BOX NEOP	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
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
10EP1200A01	ENDPLATE, MACH FR. FOR RODENT SCREENS	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10AD2000A02	AIR DEFLECTOR, STAT	1.000 EA
HA1103A02	310-560 RODENT SCREEN	1.000 EA
12XN0832A12	8-32 X 3/4 HEX HD SCREW	2.000 EA
XY0832A02	8-32 HEX NUT	2.000 EA
HW1000A08	#8 SAE FLAT WASHER	2.000 EA
12XN0832A06	8-32 X 3/8 HEX HD SCREW	1.000 EA
HW1000A08	#8 SAE FLAT WASHER	1.000 EA
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10EP1200A02	ENDPLATE, MACH PU. FOR RODENT SCREENS	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HA1103A02	310-560 RODENT SCREEN	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
12XN0832A12	8-32 X 3/4 HEX HD SCREW	2.000 EA
HW1000A08	#8 SAE FLAT WASHER	2.000 EA
XY0832A02	8-32 HEX NUT	2.000 EA
12XN0832A06	8-32 X 3/8 HEX HD SCREW	1.000 EA
HW1000A08	#8 SAE FLAT WASHER	1.000 EA
10AD2000A02	AIR DEFLECTOR, STAT	1.000 EA
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	8.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT .591 OD, .319 I	8.000 EA
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10CB1500A01SP	CONDUIT BOX LID, MACH	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
MG1025G03	WILKOFASST, 789.901, OIL RIG SILVER	0.070 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

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LB1119N	WARNING LABEL	1.000 EA
LC0321	CONNECTION LABEL	1.000 EA
NP2961E	ALUM CSA CC	1.000 EA
NP0090E	SS NO LOGO'S BEARING & GREASE DATA	1.000 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA

AC Induction Motor Performance Data

Record # 22849 - Typical performance - not guaranteed values

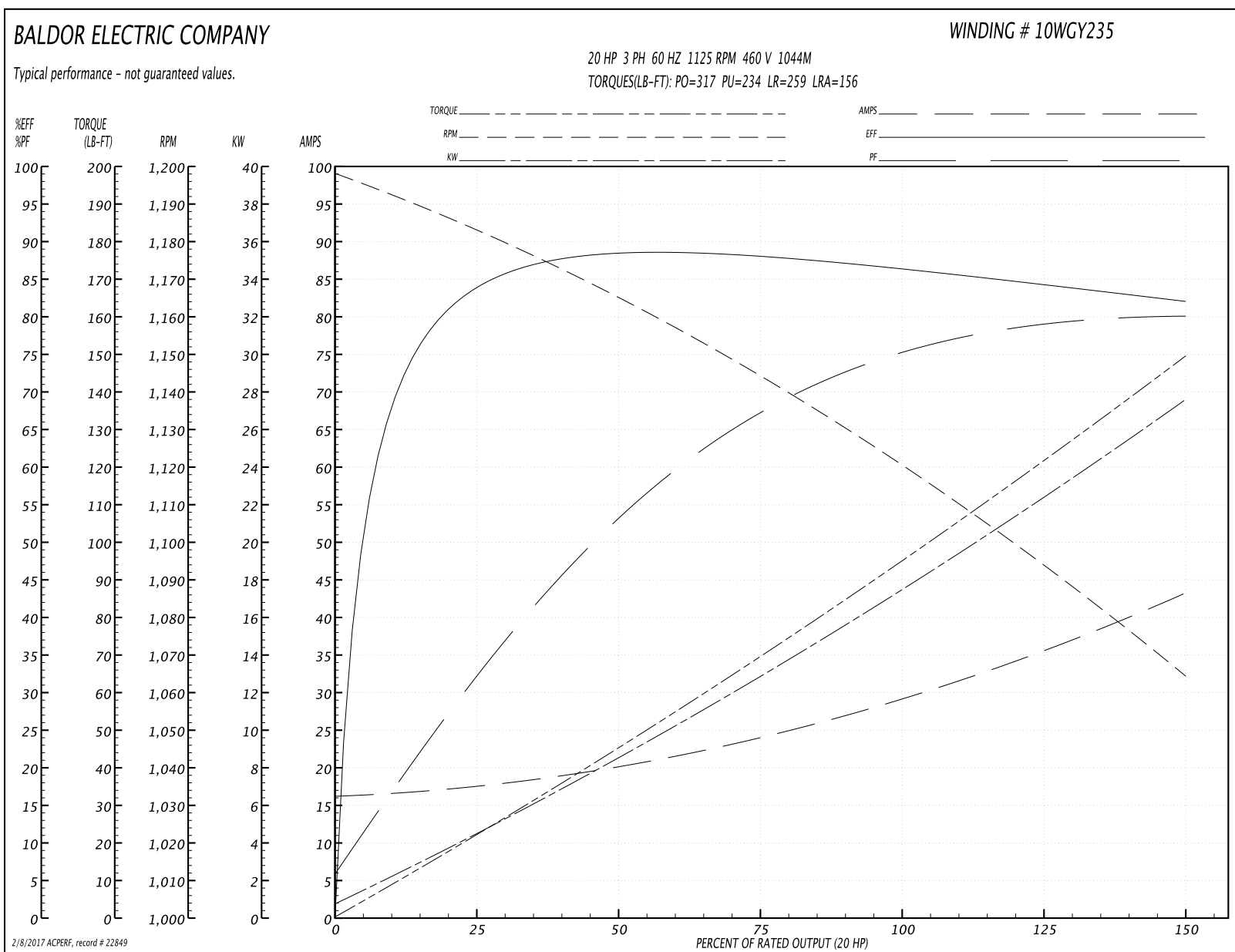
Winding: 10WGY235-R001	Type: 1044M	Enclosure: OPEN
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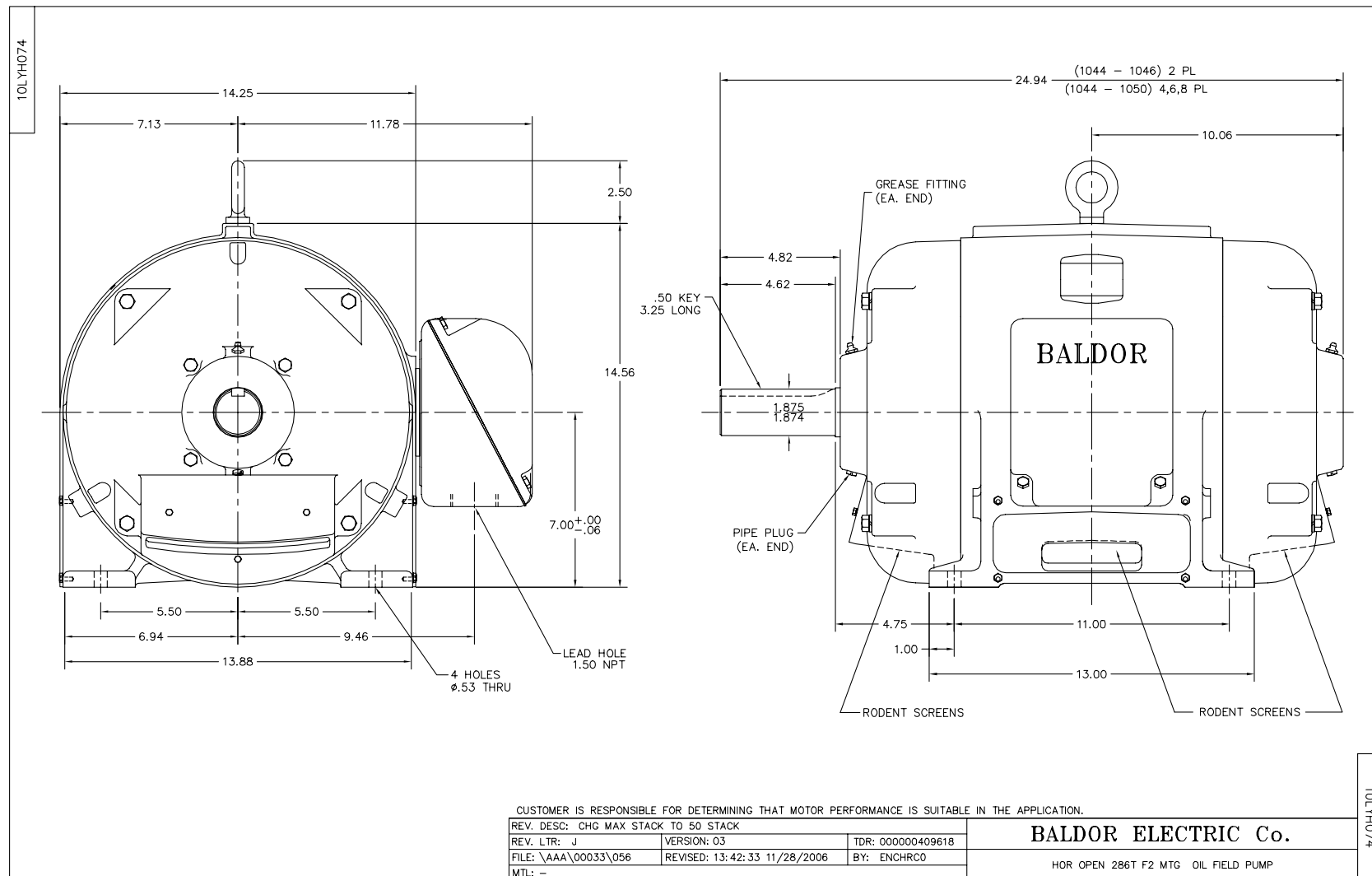
Nameplate Data				460 V, 60 Hz: 2nd Voltage Connection	
Rated Output (HP)	20			Full Load Torque	93.2 LB-FT
Volts	230/460/796			Start Configuration	direct on line
Full Load Amps	58/29/16.8			Breakdown Torque	317 LB-FT
R.P.M.	1125			Pull-up Torque	234 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	259 LB-FT
NEMA Design Code	D	KVA Code	G	Starting Current	156 A
Service Factor (S.F.)	1.15			No-load Current	16.5 A
NEMA Nom. Eff.	86.5	Power Factor	74	Line-line Res. @ 25°C	0.437 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	68°C
S.F. Amps				Temp. Rise @ S.F. Load	88°C

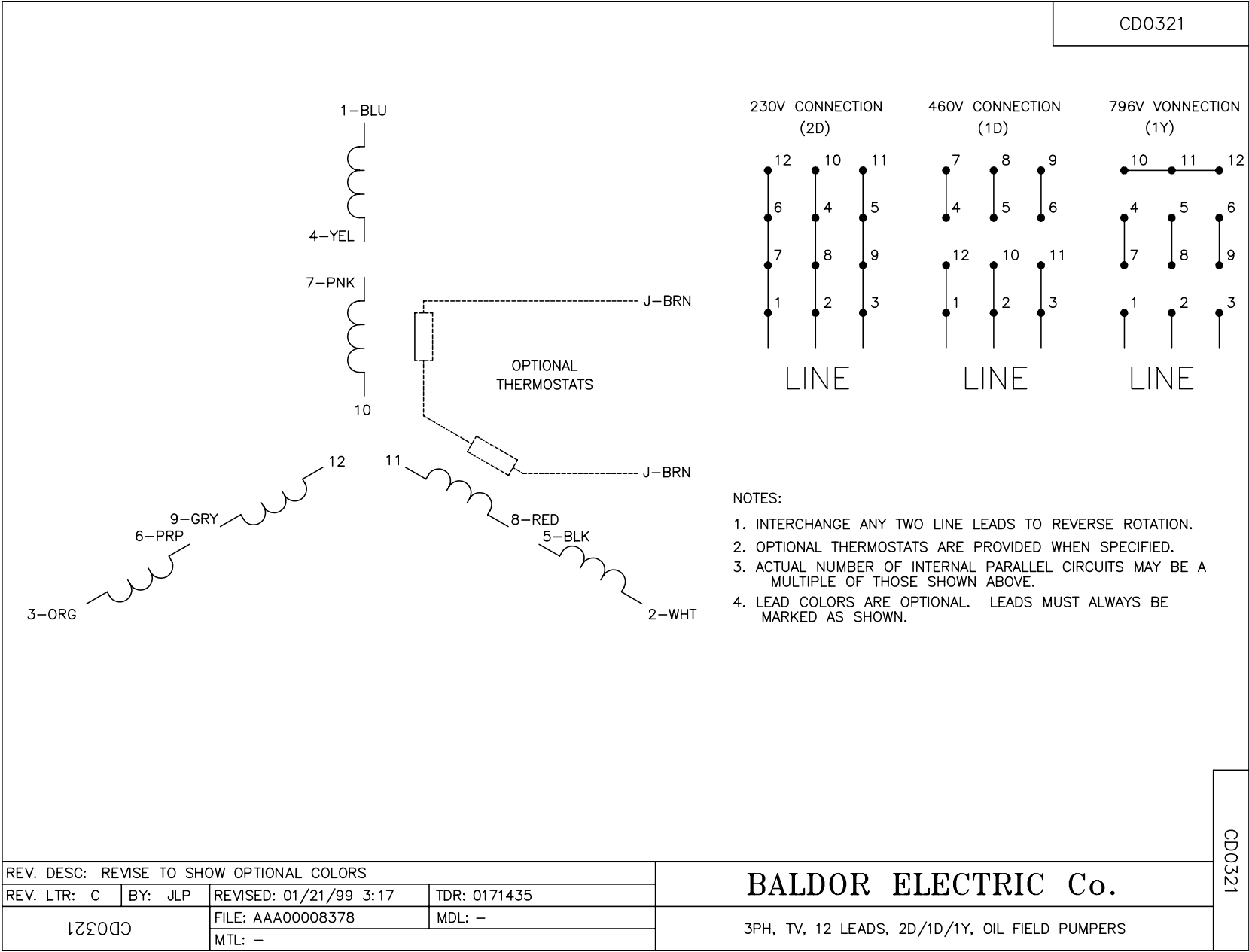
Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	74	78	81	76
Efficiency	83	87.8	88.2	87.1	85	81.9	85.8
Speed	1183	1164	1145	1123	1097	1063	1107
Line amperes	17.1	19.9	24	28.9	35.4	43.1	32.8

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values







Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>