

BALDOR® • RELIANCE

Product Information Packet

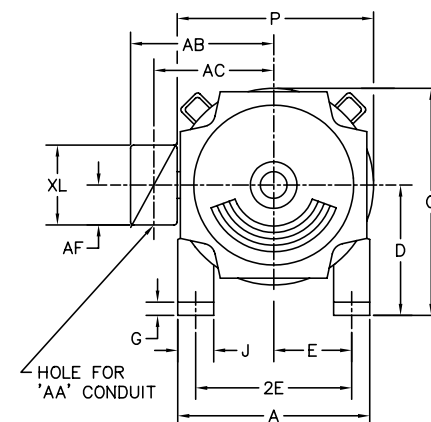
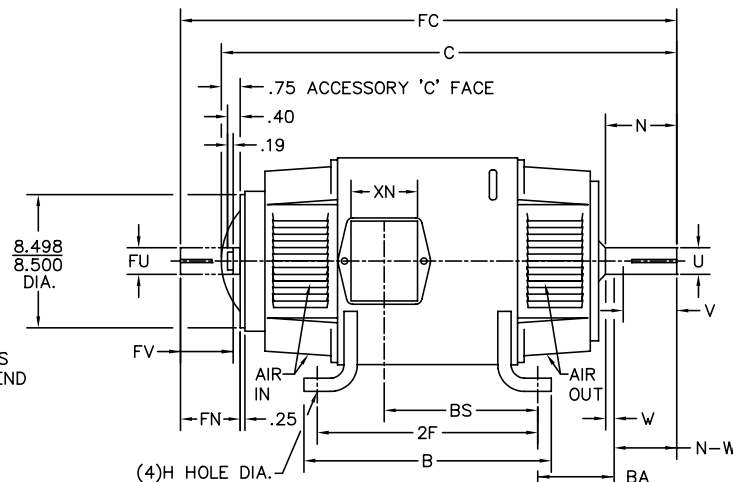
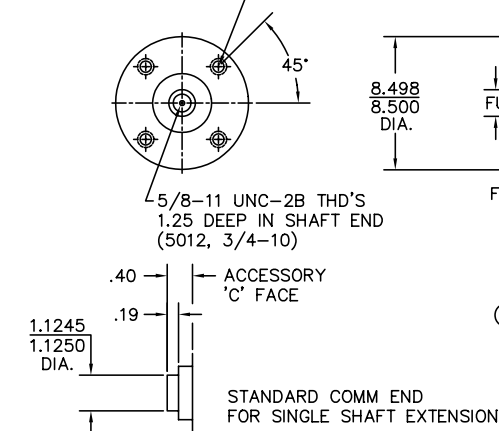
D50250P

250HP,1750/1900RPM,DC,506AT,DPFG,F1,N

Part Detail			
Type:	DC	Prod. Type:	TR
Power Code:	D	Weight:	2540
Frame Group:	0506AT	Mounting Pos.:	F1
HP:	250	Enclosure:	DPFG
RPM:	1750/1900	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	392.00	Field V:	300
Field A:	7.05	Field A Hot:	5.02-4.05
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	6218
ODE Bearing:	6216	Brushes:	50034-2
Brush Qty.:			

877-3

1/2-13UNC-2B THD X 1.00 DEEP
4-HOLES EQUALLY SPACED
ON A 7.250 DIA. B.C.



	FOOT MOUNTING						D.E. SHAFT EXTENSION					DRIVE KEY		ACC SHAFT EXTENSION			ACC KEY		FRAME							
FRAME	BA	E	2F	G	H	J	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	FN	FU	FV	KEY-SQ.	KEY-LONG	A	B	C	FC	D	O	P	
504AT	8.50	10.00	16.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	18.88	45.75	51.00	12.50 ²	24.91	24.81	
506AT	8.50	10.00	20.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	22.88	49.75	55.00	12.50 ²	24.91	24.81	
508AT	8.50	10.00	25.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	27.88	54.75	60.00	12.50 ²	24.91	24.81	
5010AT	8.50	10.00	32.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	34.88	61.75	67.00	12.50 ²	24.91	24.81	
5011AT	8.50	10.00	36.00	1.18	1.188	4.50	6.76	6.57	3.250	6.32 ³	.19	.750	5.25	5.95	2.875	5.70	.750	5.00	24.88	38.88	65.75	71.00	12.50 ²	24.91	24.81	
5012AT	8.50	10.00	43.00	1.18	1.188	4.50	7.06	6.87	4.250	6.62 ³	.19	1.000	5.25	5.95	2.875	5.70	1.000	5.00	24.88	45.88	73.75	79.75	12.50 ²	24.91	24.91	

	CONDUIT BOX							ARM APPROX. WK ² LBS.FT. ²	APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN		
504AT	3	20.65	16.81	2.62	13.25	11.63	7.76	79.10	1910 ⁵
506AT	3	20.65	16.81	2.62	17.25	11.63	7.76	98.76	2290 ⁵
508AT	3	20.65	16.81	2.62	22.25	11.63	7.76	121.87	2820 ⁵
5010AT	4 ⁴	21.20	16.81	2.84	30.12	13.40	13.50	156	3450 ⁵
5011AT	4 ⁴	21.20	16.81	2.84	34.12	13.40	13.50	161	3810 ⁵
5012AT	4 ⁴	21.20	17.19	2.84	41.12	13.40	13.50	170	4887 ⁵

- 1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.0000 - .0005
SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 - .0010
SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.
SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
- 2) 'D' DIMENSION TOLERANCE +.000 - .060.
- 3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
- 4) THERE ARE TWO HOLES FOR 4" CONDUIT, SECOND HOLE IS 6" TOWARD DRIVE END.
- 5) TOTAL WEIGHT OF MOTOR.
- 6) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX
LOCATION SEE SALES ORDER

MATL: -

REV: C CORRECT ERROR 5012AT E FROM 20 TO 10

Σ-778

SCALE: -

BY: BKW

REVISED: 05/13/96

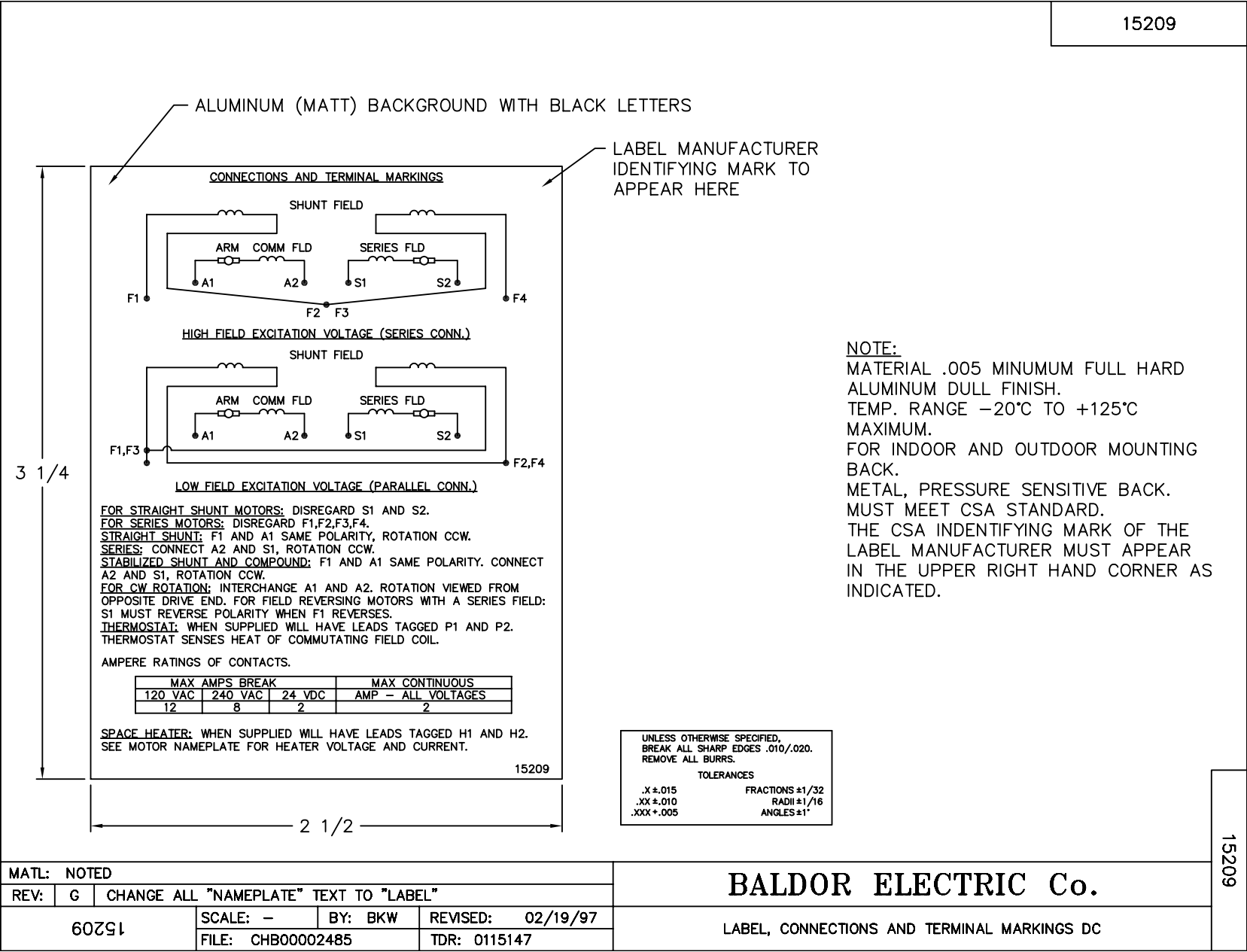
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TDR: 0096765

BALDOR ELECTRIC Co.

DIM SHEET

877-3

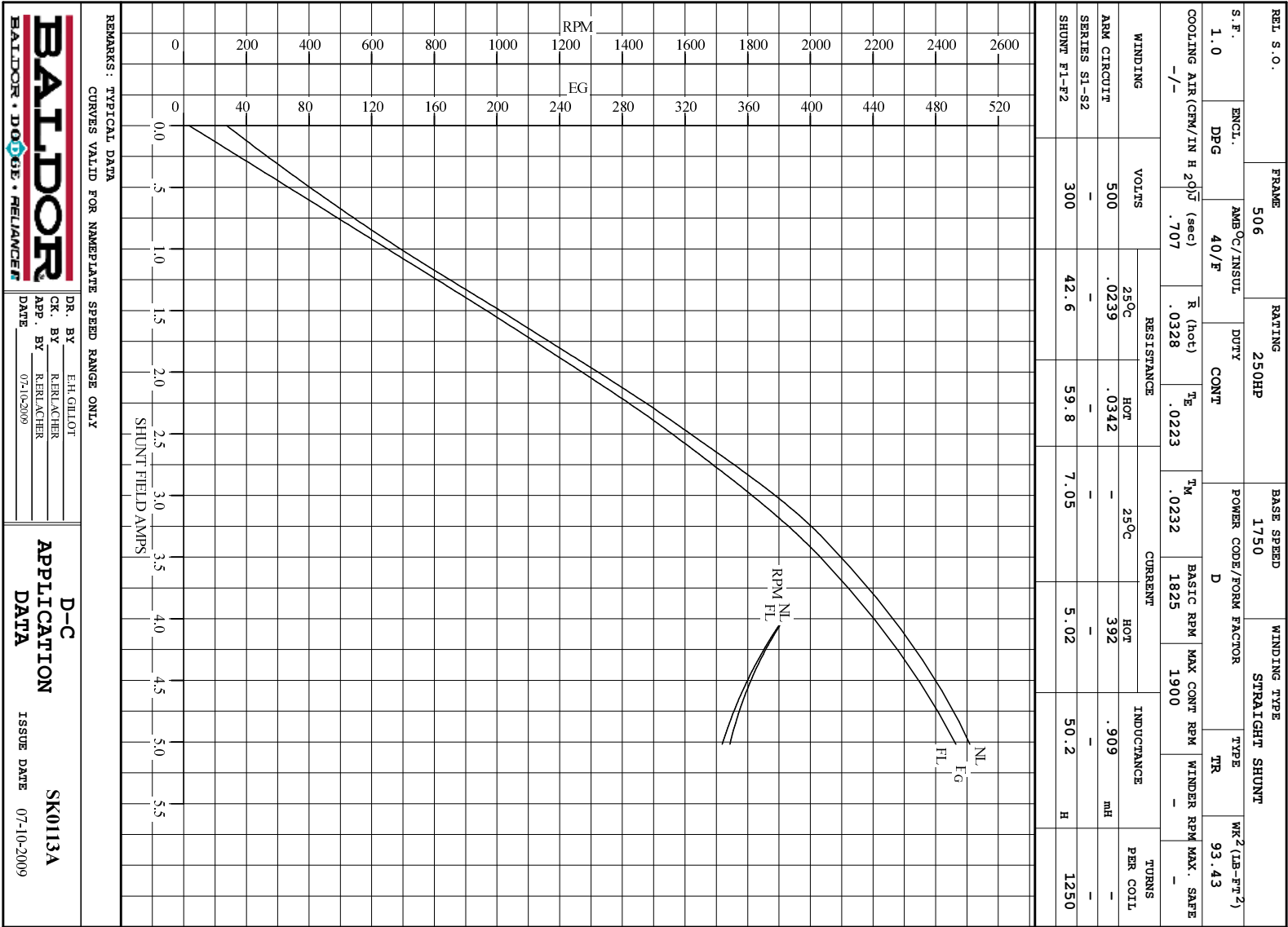


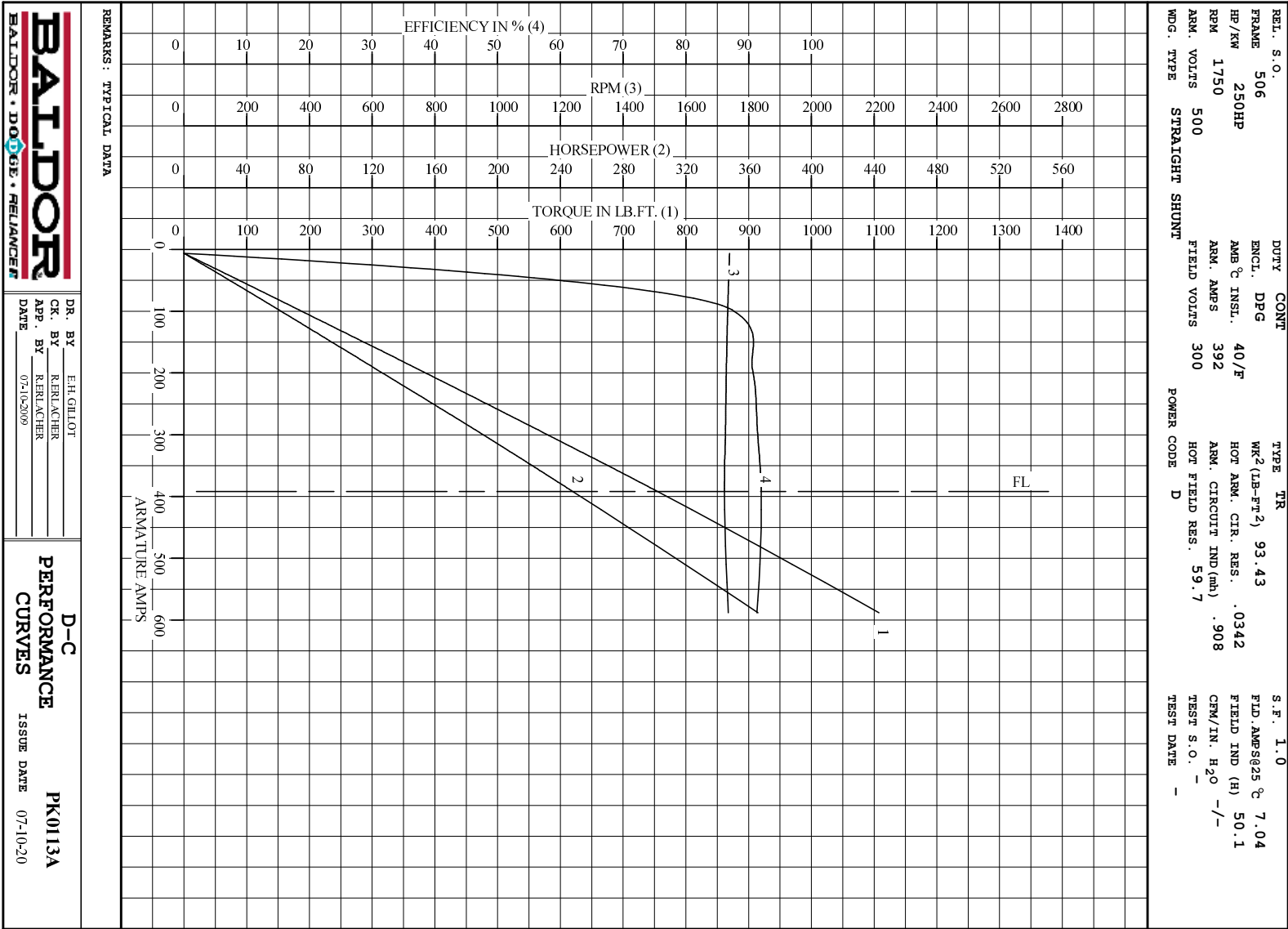
REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	506	250HP	1750	500	392
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DPG	40/F	CONT	300
POWER CODE					
	TYPE	WK ² (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
D	TR	93.43	.0342	7.04	59.7
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR (CFM/IN H ² O)		TURNS PER COIL SHUNT/SERIES	TEST DATE
.908	50.1	-/-		1250/.00000	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	6.2	0	0	1739	0
1/4	98	184	60.6	1734	87.4
2/4	196	378	124	1729	90.6
3/4	294	568	187	1726	91.4
4/4	392	755	248	1723	92.0
O.L.	588	1108	366	1736	91.3
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
5.01	1739	1722	501	492	
4.77	1769	1752	494	483	
4.53	1804	1792	485	472	
4.29	1848	1841	473	459	
4.05	1902	1900	460	445	
REMARKS: TYPICAL DATA					

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DR. BY E. H. GILLIOT
CK. BY K. ERACHER
APP. BY K. ERACHER
DATE 07-10-2009

D-C MOTOR
PERFORMANCE
DATA
DK0113A
ISSUE DATE 07-10-2009





BALDOR
BALDOR • DOUG • RELIANCE

DR. BY E.H. GILLOT
CK. BY R. R. LACHER
APP. BY R. R. LACHER
DATE 07-10-20

D-C
PERFORMANCE
CURVES
PK0113A
ISSUE DATE 07-10-20