

BALDOR® • RELIANCE 

Product Information Packet

CD1805R

5HP,1750RPM,DC,1810ATCZ,DPG,

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:		Elec. Spec:	G4611A	CD Diagram:	406770-007
Enclosure:	DP	Mfg Plant:		Mech. Spec:		Layout:	609980-503
Frame:	DC181	Mounting:	F3	Poles:	00	Created Date:	12-12-2019
Base:		Rotation:		Insulation:	F	Eff. Date:	12-13-2019
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Specs			
Enclosure:	DP		
Frame:	DC1810ATCZ		
Frame Material:	Exposed Laminations		
Agency Approvals:	CCSA US		
Base Indicator:	Rigid		
Bearing Grease Type:	Polyrex EM (-20F +300F)		
Drip Cover:	No Drip Cover		
Duty Rating:	CONT		
Feedback Device:	NO FEEDBACK		
Field Winding Type:	STR. SHUNT		
Frame Prefix:	DC		
Heater Indicator:	No Heater		
Insulation Class:	F		
Lifting Lugs:	Standard Lifting Lugs		
Mounting Arrangement:	F3		
Shaft Extension Location:	Pulley End		

Shaft Ground Indicator:	No Shaft Grounding		
Shaft Slinger Indicator:	No Slinger		
Motor Standards:	NEMA		
Thermal Device - Bearing:	None		

Nameplate 000613006HP	
CAT.NO.	CD1805R
FR	DC1810ATCZ
ENCL.	DP
ENCL MOD	GUARDED
MAX SAFE SPEED	04500
FIELD DATA	
WINDING	STR. SHUNT
VOLTS	200/100
MAX AMPS @ 25 C	1.68
HOT AMPS	1.30
	BRUSH:419904050A
	FLD. DATA FOR HIGH VOLTS
SPEC NO.	T18S1105
HP	5
RPM	1750
VOLTS	180
AMPS	24.00
SER.NO.	
DUTY	CONT
S.F.	1.0
INSUL	F
AMB.	40
POWER CODE	2/2-230-60-0
D.E. BRG.	30BC02JPP30A
O.D.E. BRG.	30BC02JPG30A
MIN. AMB.	0
TYPE	TR

Parts List		
Part Number	Description	Quantity
SA377002	SA T18S1105	1.000 EA
AA018220	AA T18S1105	1.000 EA
000692000FS	WARNING LABEL	1.000 EA
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 EA
418057747A	METAL FASTENER	8.000 EA
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 EA
422908009B	SLVNG EXTRA SLVG LENGT	28.000 EA
609844002A	BALANCE RING	1.000 EA
036000012HB	HHCS M6X12MM LONG PLATED	1.000 EA
036010010GB	M5-.8 X 10 HXWHD SCREW	2.000 EA
610470003R	BRASY METRIC	1.000 EA
419904050A	BRUSH N	2.000 EA
801758061A	BRKT,ODE,DC180	1.000 EA
801758058AA	BRKT,DE,DC180	1.000 EA
004824015A	GREASE POLYREX EM	0.100 LB
036000050HB	MHHCS M6X50MM PLATED	2.000 EA
400638001C	WSHR	1.000 EA
036500009AB	METRIC NUTM8-1.25PLTD-360	4.000 EA
036500009AB	METRIC NUTM8-1.25PLTD-360	4.000 EA
609830005K	TBOLT METRIC RP609830-	4.000 EA
415000103A	T/LUG #14AWG-#4AWG W/HOLE FOR .250 BOLT	1.000 EA
033520003JE	SHWHS	1.000 EA
417733003A	GASKT	1.000 EA
418018074A	GROUND LABEL G100 METRIC 160 D.C.	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
036620008AB	M6 METRIC EXT LOCKWASHER	1.000 EA
032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 EA
422919190	HHCVR KIT,DC180,DE, LOUVERED	1.000 EA
422919190	HHCVR KIT,DC180,DE, LOUVERED	1.000 EA
422919190	HHCVR KIT,DC180,DE, LOUVERED	1.000 EA
422919199	CVRKT FE	1.000 EA
422919201	HHCVR KIT,DC180,ODE,LOUVERED	1.000 EA
422919201	HHCVR KIT,DC180,ODE,LOUVERED	1.000 EA
422919201	HHCVR KIT,DC180,ODE,LOUVERED	1.000 EA
706310300A	COND BOX	1.000 EA
06CB3500	BALDOR CONDUIT BOX LID	1.000 EA
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 EA
033518006LB	HWHMS, .75IN 1/4-20	2.000 EA
036000010HB	MHHCS M6-1.0X10L PLATED	4.000 EA
406770007	C/D TAG	1.000 EA
706305020A	GUARD, SHAFT	1.000 EA
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 EA
000640000P	TAG WINDING THERMOST	1.000 EA
000692000NF	NP 2POLE METRIC LABEL	1.000 EA
004824007K	SPECIAL PAINT	0.100 EA


REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	DC1810ATZ	5.00HP	1750	180	24.0
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STRAIGHT SHUNT		1.0	DRG	40/F	CONT
					200
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C	HOT FIELD RES
2/2 230-60-0	TR	.6800	.591	1.67	153

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR(CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
8.76	14.1	-/-	1600/.00000	

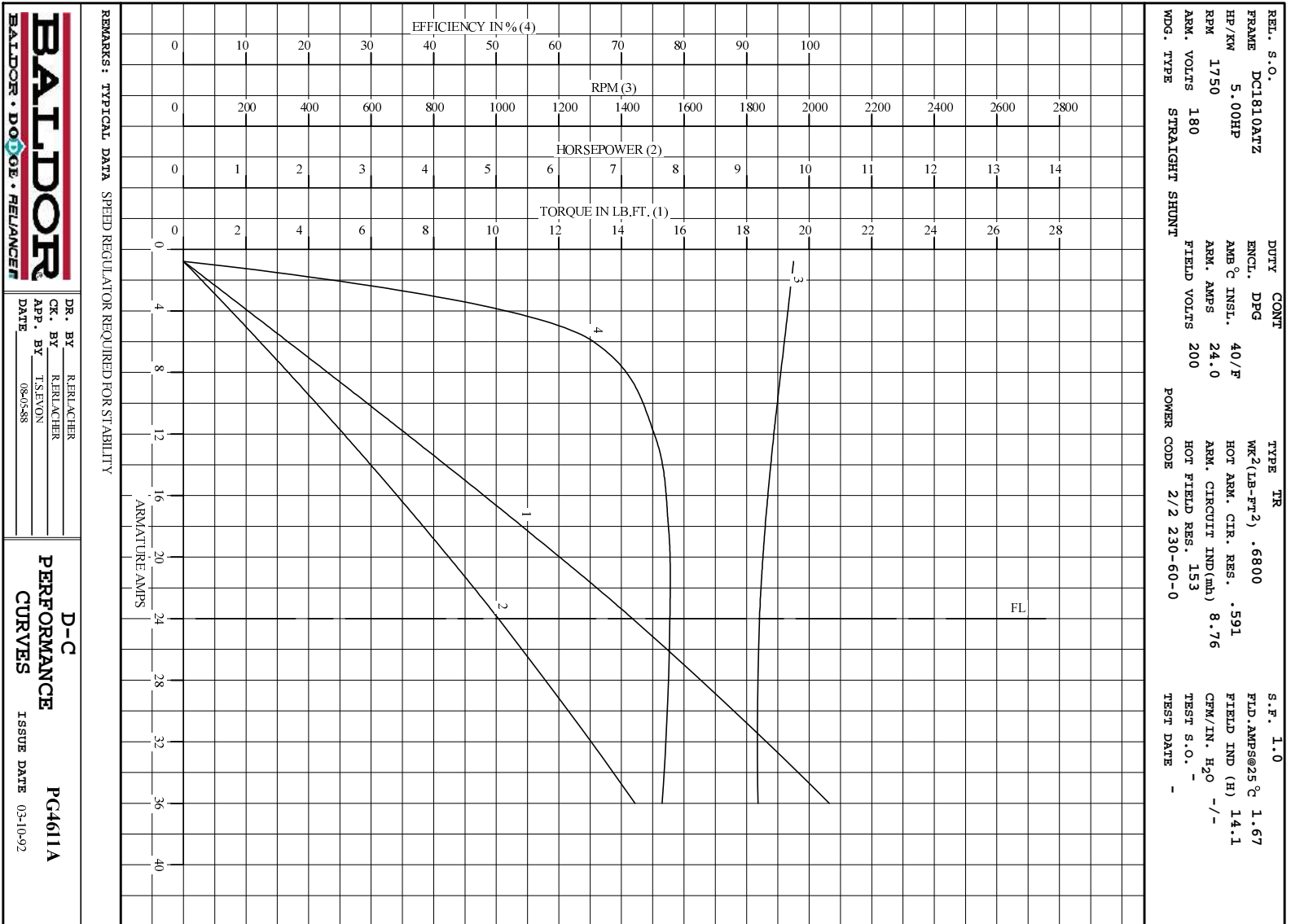
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	.77	0	0	1950	0
1/4	6.0	3.34	1.22	1921	65.6
2/4	12	7.13	2.56	1887	75.3
3/4	18	10.8	3.83	1860	77.5
4/4	24	14.4	5.03	1841	77.7
O.L.	36	20.6	7.22	1836	76.5

RPM VS. FIELD AMPS			Eg VS. FIELD AMPS	
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED
1.30	1950	1841	160	155
1.21	1961	1873	156	152
1.13	1971	1920	153	148
1.05	1995	1979	149	144
.977	2034	2050	146	139

REMARKS: TYPICAL DATA
 MAXIMUM SAFE SPEED = 4500 RPM
 SPEED REGULATOR REQUIRED FOR STABILITY

	DR. BY R. BRILACHER	D-C MOTOR PERFORMANCE DATA DG4611A ISSUE DATE 03-10-92
	CK. BY T.S. EVON APP. BY T.S. EVON DATE 08-05-88	

C/R -



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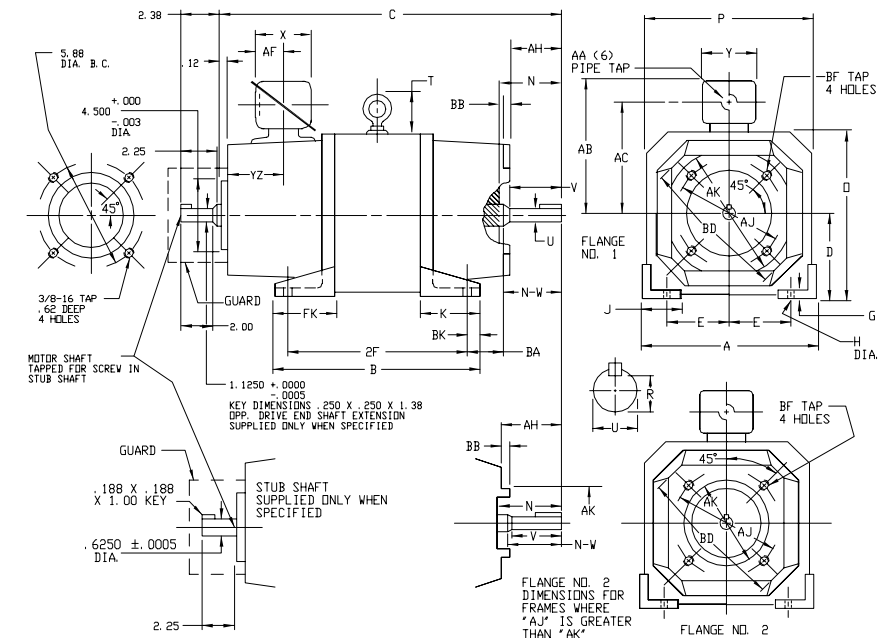
DR. BY R.RELACHER
CK. BY R.RELACHER
APP. BY T.SIMON
DATE 08-05-88

D-C
PERFORMANCE
CURVES ISSUE DATE 03-10-92
PG4611A

C/R

609980-503

INDUSTRIAL DIRECT CURRENT MOTORS AND GENERATORS - RPM III
 ENCLOSURE: DRIP-PROOF FULLY-GUARDED MOUNTING: FOOT, "C" FACE COOLING: SELF-VENTILATED ACCESSORIES: PROVISIONS FOR TACHOMETER MOUNTING
 SPLASHPROOF, TOTALLY ENCLOSED METHOD OF DRIVE: COUPLED OR BELTED NON-VENTILATED ONLY WHEN SPECIFIED



DIMENSIONS ARE IN INCHES

FRAME	FLANGE	A	B	C (1)	E	G	H	J	K	FK	BK	D	P	T	BA	BB	BD	BF TAP	BF TAP DEPTH	AJ	AK (4)	A.C. SHAFT EXT. REF.
DC189ATY	ND 2	9.00	4.50	3.75	.31	.44	1.50	3.56	3.56	.50	8.88	8.75	1.88	2.75	.12	8.75	3/8-16	.62	5.88	4.500	140TC EXT.	
DC189ATCZ	ND 1	9.00	4.50	3.75	.31	.44	1.50	3.56	3.56	.50	8.88	8.75	1.88	2.75	.25	8.75	1/2-13	.88	7.25	8.500	180TC EXT.	
DC1810ATY	ND 2	9.00	4.50	3.75	.31	.44	1.50	3.56	3.56	.50	8.88	8.75	1.88	2.75	.12	8.75	3/8-16	.62	5.88	4.500	140TC EXT.	
DC1810ATCZ	ND 1	9.00	4.50	3.75	.31	.44	1.50	3.56	3.56	.50	8.88	8.75	1.88	2.75	.25	8.75	1/2-13	.88	7.25	8.500	180TC EXT.	
DC1811ATY	ND 2	9.00	4.50	3.75	.31	.44	1.50	3.56	3.56	.50	8.88	8.75	1.88	2.75	.12	8.75	3/8-16	.62	5.88	4.500	140TC EXT.	
DC1811ATCZ	ND 1	9.00	4.50	3.75	.31	.44	1.50	3.56	3.56	.50	8.88	8.75	1.88	2.75	.25	8.75	1/2-13	.88	7.25	8.500	180TC EXT.	

FRAME	FLANGE	C (5)	B	2F	DRIVE END SHAFT AND KEY										TERMINAL BOX DIMENSIONS				WT. LBS.	
					N	N-W	UK (2)	V	AH	R (3)	SG	LGTH	AA	AB	AC	AF	X	Y		YZ
DC189ATY	ND 2	18.81	11.62	10.00	2.44	2.25	.8750	2.00	2.12	.771	.188	1.38	3/4	6.88	5.56	1.69	3.38	3.88	3.25	130
DC189ATCZ	ND 1	19.44	11.62	10.00	3.06	2.88	1.1250	2.62	2.62	.986	.250	1.81	3/4	6.88	5.56	1.69	3.38	3.88	3.25	130
DC1810ATY	ND 2	19.56	12.38	11.00	2.44	2.25	.8750	2.00	2.12	.771	.188	1.38	3/4	6.88	5.56	1.69	3.38	3.88	3.25	155
DC1810ATCZ	ND 1	20.19	12.38	11.00	3.06	2.88	1.1250	2.62	2.62	.986	.250	1.81	3/4	6.88	5.56	1.69	3.38	3.88	3.25	155
DC1811ATY	ND 2	21.06	13.88	12.50	2.44	2.25	.8750	2.00	2.12	.771	.188	1.38	3/4	6.88	5.56	1.69	3.38	3.88	3.25	185
DC1811ATCZ	ND 1	21.69	13.88	12.50	3.06	2.88	1.1250	2.62	2.62	.986	.250	1.81	3/4	6.88	5.56	1.69	3.38	3.88	3.25	185

- (1) *D* DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) *U* VARIES +.0000, -.0005.
- (3) *FK* VARIES +.0000, -.0003. FACE RUNDOT AND ECCENTRICITY .004 MAX. T. I. R.
- (4) *AK* VARIES +.0000, -.0003.
- (5) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DPP, DRIVE END, ADD .25 TO *C* DIM. FOR BRACKET COVER.
- (6) TERMINAL BOX CAN BE ROTATED TO REPOSITION CONDUIT CONNECTION. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED CONSULT FACTORY.

MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.

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

REV. DESC: RELOAD TO BUS	VERSION: 01	TDR: 00000956570
REV. LTR: A	REVISED: 01:19:35 12/11/2015	BY: USPABLO
FILE: \RSN\00031\917		
MTL: -		

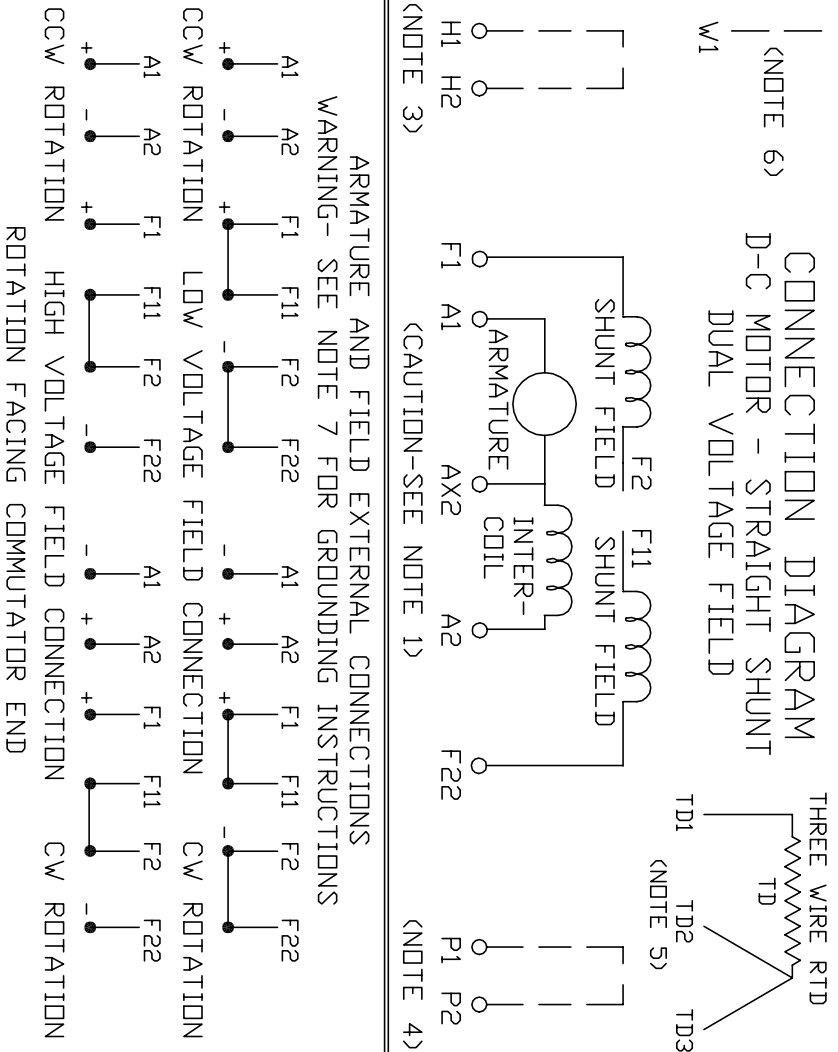


DIMENSION DRAWING, DC180ATY - DC180ATCZ, DPP, TENV, FOOT MTG.
SH 1 of 1

609980-503

406770-007

406770-007



1. **CAUTION** — ARMATURE MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.
2. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.
3. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.
4. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.
5. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEAD MARKED TD1, TD2, & TD3.
6. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.
7. **WARNING** — MOTOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE MOTOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT. FRAME BRACE OR OPPOSITE OPPOSITE DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____ RELIANCE
ORDER NO. _____ S.D. NO. _____

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000784225
FILE: \MGA\00001\391	REVISED: 02:50:46 02/01/2013	
MTL: -	BY: MGHPC	

BALDOR

D-C MOTOR CONNECTION DIAGRAM, STR. SHUNT, DUAL VOLTAGE FIELD
SH 1 of 1

Marketing maintained PDF of MN604:

[MN604](#)