



Customer information packet

D50300R-BV

300 1750 LC3613ATZ DPFV STR SHNT

Specifications

Enclosure	DP
Frame	LC3613ATZ
Frame Material	Steel
Output Power	300.000 HP
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Frame Prefix	LC
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	50.12 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G8291A B
Layout	616042-001
Eff. date	04-13-2015
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

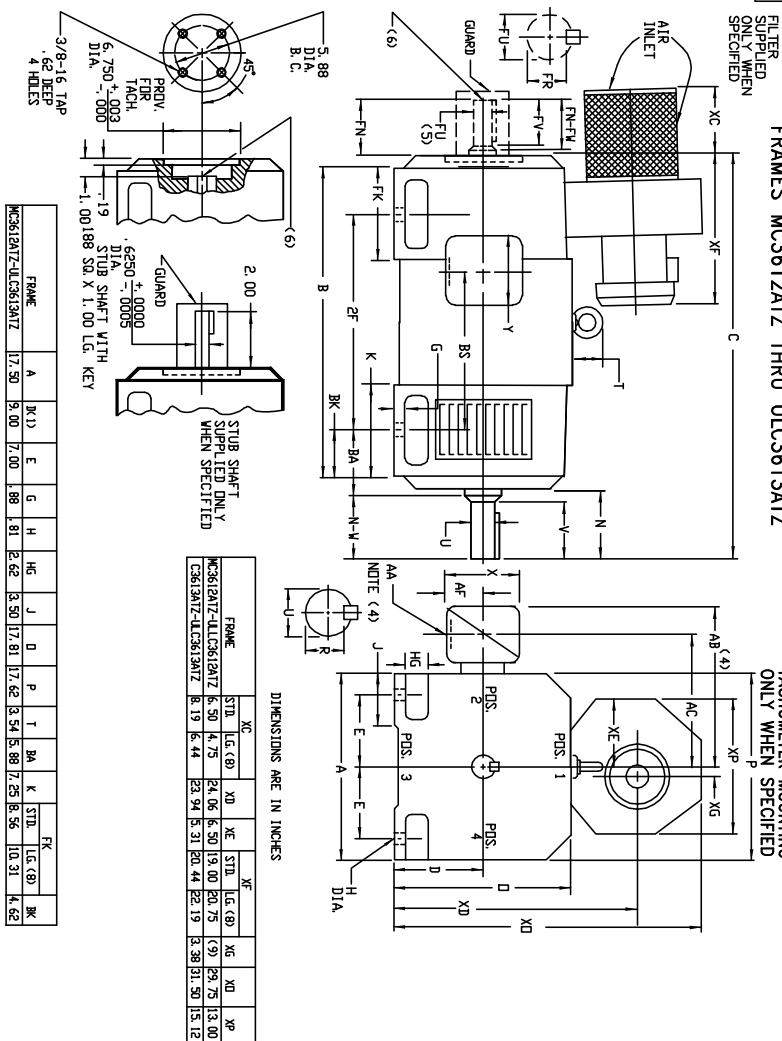
000613006HP									
CAT.NO.	D50300R-BV	SPEC NO.		T36S1319					
FR	LC 3613ATZ	HP	300		DUTY		CONT		
ENCL.	DP	RPM	1750/ 2000		S.F.		1.0		
ENCL MOD	FORCE VENT	VOLTS	500		INSUL			F	
MAX SAFE SPEED	3200	AMPS	478.00		AMB.		40		
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT		POWER CODE		C				
VOLTS	300		D.E. BRG.		95BC02J30X				
MAX AMPS @ 25 C	12.57		O.D.E. BRG.		80BC02J30X				
HOT AMPS	8.71/ 7.37		MIN. AMB.		0		TYPE		TR
BRUSH:419904052AB									

616042-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS - RPM III
ENCLOSURE: DRIP-PROOF FULLY-GUARDED COOLING: FORCE VENTILATED
WITH INTEGRAL BLOWER AND MOTOR
MOUNTING:FOOT SPLASHPROOF AIR FILTERED

FRAMES MC3612ATZ THRU ULC3613ATZ

ACCESSORIES: PROVISION FOR TACHOMETER MOUNTING



- (1) "P" DIMENSION WILL NOT BE EXCEEDED, SHING UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
 - (2) "R" AND "P" VARIATIONS: .000 - .0015
 - (3) TERMINAL BOX VARIATIONS WITH "F" FOR DIMENSIONS "AA", "AB", "AC", "AE", "X" AND "Y", REFER TO BOX S/S. (STD. 609379-1, 609379-2, MILL 609379-2)
 - (4) DEPRESSIVE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
 - (5) MOTOR SHAFT MOUNTED FOR SHING IN STUD SHAFT.
 - (6) MOTOR SHAFT MOUNTED FOR SHING IN STUD SHAFT.
 - (7) DRIVE END AND .25 TO 1 CM. FOR BRACKET COVER.
 - (8) DIMENSION FOR FRAMES WITH PREFIX "LMC, LLC, LC6313417, LUMC, ULIC OR UC3613417.
 - (9) "YAC" DIMENSION IS NOT APPLICABLE TO "C3612A17" FRAMES.
 - (10) GLEITER MOTOR IS DERIVED ON SHAFT C/D.
 - (11) SHAFT ROUNDT .003 MAX. I.I.R.
- TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.
- TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1, V-4, H-3, V-7, OR C-1 MOUNTING IS SPECIFIED.
- BOX LOCATED ON OTHER SPECIFIED POSITIONS 1, 2, OR 4, EXCEPT BLINDER ASSEMBLY AND TERMINAL BOX CAN NOT BE LOCATED AT THE SAME POSITION.
- MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.
- ALL MOUNTING DIMENSIONS, DETAILS ARE REQUIRED, CONSULT FACTORY.

FRAME	MEDIAN		B		SS	SE	DATIVE END SHIFT AND KEY		OPPOSITE REVERSE END SHIFT AND KEY						
	CL7	CL8	SS	BS			N-H	U2D	N-H	U2D	TV	REV	SS	REV	
MC3612A17 - LM3612A17	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A2 - LM3612A2	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A3 - LM3612A3	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A4 - LM3612A4	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A5 - LM3612A5	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A6 - LM3612A6	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A7 - LM3612A7	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A8 - LM3612A8	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A9 - LM3612A9	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A10 - LM3612A10	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A11 - LM3612A11	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A12 - LM3612A12	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A13 - LM3612A13	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A14 - LM3612A14	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A15 - LM3612A15	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A16 - LM3612A16	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A17 - LM3612A17	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A18 - LM3612A18	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A19 - LM3612A19	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A20 - LM3612A20	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A21 - LM3612A21	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A22 - LM3612A22	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A23 - LM3612A23	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A24 - LM3612A24	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A25 - LM3612A25	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A26 - LM3612A26	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A27 - LM3612A27	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A28 - LM3612A28	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A29 - LM3612A29	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A30 - LM3612A30	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A31 - LM3612A31	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A32 - LM3612A32	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A33 - LM3612A33	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A34 - LM3612A34	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A35 - LM3612A35	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A36 - LM3612A36	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A37 - LM3612A37	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A38 - LM3612A38	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A39 - LM3612A39	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A40 - LM3612A40	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A41 - LM3612A41	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A42 - LM3612A42	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A43 - LM3612A43	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A44 - LM3612A44	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A45 - LM3612A45	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A46 - LM3612A46	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A47 - LM3612A47	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A48 - LM3612A48	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A49 - LM3612A49	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A50 - LM3612A50	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A51 - LM3612A51	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A52 - LM3612A52	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A53 - LM3612A53	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A54 - LM3612A54	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A55 - LM3612A55	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A56 - LM3612A56	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A57 - LM3612A57	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A58 - LM3612A58	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A59 - LM3612A59	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A60 - LM3612A60	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A61 - LM3612A61	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A62 - LM3612A62	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A63 - LM3612A63	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A64 - LM3612A64	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A65 - LM3612A65	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A66 - LM3612A66	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A67 - LM3612A67	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A68 - LM3612A68	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A69 - LM3612A69	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A70 - LM3612A70	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A71 - LM3612A71	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A72 - LM3612A72	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A73 - LM3612A73	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A74 - LM3612A74	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A75 - LM3612A75	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A76 - LM3612A76	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A77 - LM3612A77	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A78 - LM3612A78	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A79 - LM3612A79	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A80 - LM3612A80	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC3612A81 - LM3612A81	42	88	44	56	18	12	89.00	6.00	5.75	8.95	5.02	4.50	75.0	4.25	16.85
MC															

FRAME	A	DK(1)	E	G	H	HG	J	D	P	T	BA	K	FK		BK
													STD.	LG (8)	
MC3612A17-ULC3613A17	17.50	9.00	7.00	.88	.81	2.62	3.50	17.81	17.62	3.54	5.88	7.25	8.56	10.31	4.62

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

REV. DESC: ADD SHAFT RUNOUT NOTE		
REV. LTR: B	VERSION: 02	TDR: 000001186744
FILE: \RGG\00016\063	REVISED: 03: 32: 04 03/02/2022	BY: RGGNAS
MTL: -		

BALDOR - RELIANCE®

DIMENSION DRAWING,MC3612ATZ – ULC3613ATZ,DPP,FOOT MTG

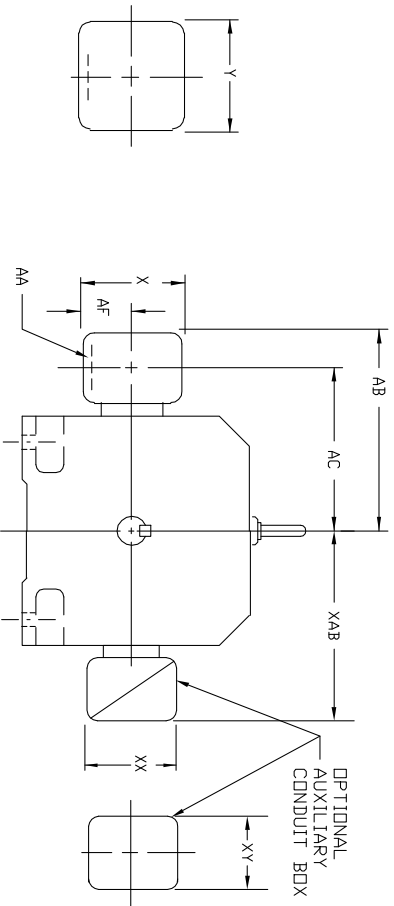
SH 1 of 1

616042-001

INDUSTRIAL DIRECT CURRENT MOTORS
AND GENERATORS – RPM III

609979-003

HOFFMAN TERMINAL BOX – MILL TYPE
FRAMES C3210ATZ THRU C3612ATZ



DIMENSIONS ARE IN INCHES

TERMINAL BOX DIMENSIONS				F1 MOUNTING			
FRAME SIZE	MAX. AMPS	AA	AB	AC	AF	X	Y
C3210ATZ 128	2	15.47	12.06	6.00	16.00	16.00	706310-3G
C3212ATZ 185	3	15.47	12.06	6.00	16.00	16.00	706310-3H
C3214ATZ 269	4	15.47	12.06	6.00	16.00	16.00	706310-3J
(1)	500	(2)	15.47	12.06	6.00	16.00	706310-3F
C3612ATZ 185	3	16.47	13.06	6.00	16.00	16.00	706310-3G
C3613ATZ 269	4	16.47	13.06	6.00	16.00	16.00	706310-3H
(1)	500	(2)	16.47	13.06	6.00	16.00	706310-3F

TERMINAL BOX DIMENSIONS				F2 MOUNTING			
FRAME SIZE	MAX. AMPS	AA	AB	AC	AF	X	Y
C3210ATZ 128	2	15.47	12.06	6.00	16.00	16.00	706310-4G
C3212ATZ 185	3	15.47	12.06	6.00	16.00	16.00	706310-4H
C3214ATZ 269	4	15.47	12.06	6.00	16.00	16.00	706310-4J
(1)	500	(2)	15.47	12.06	6.00	16.00	706310-4F
C3612ATZ 185	3	16.47	13.06	6.00	16.00	16.00	706310-4G
C3613ATZ 269	4	16.47	13.06	6.00	16.00	16.00	706310-4H
(1)	500	(2)	16.47	13.06	6.00	16.00	706310-4F

OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM)							
FRAME SIZE	XAB	XX	XY	PART NUMBER	FRAME SIZE	XAB	XX
C320	10.00	4.25	4.25	602007-26-A	C320	13.50	8.00
C360	11.00	4.25	4.25	602007-26-A	C360	14.50	8.00

(1) SUBTRACT .45 FROM "B" DIMENSION SHOWN ON MOTOR DIMENSION SHEET.
(2) NO LEAD DUTILET HOLE. CUSTOMER MUST MACHINE HOLE IN TERMINAL BOX FOR CONDUIT AS REQUIRED.

300-646609

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

REV. DESC: LOAD TO BUS	VERSION: 00	TDR: 000000958120
REV. LTR: -	REVISED: 03:12:59 12/17/2015	BY: RGGWT
FILE: \RGG\00026\326		
MTL: -		

DIM SHT,C3210ATX THRU C3612ATZ,MILL TYPE TERMINAL BOX

SH 1 of 1

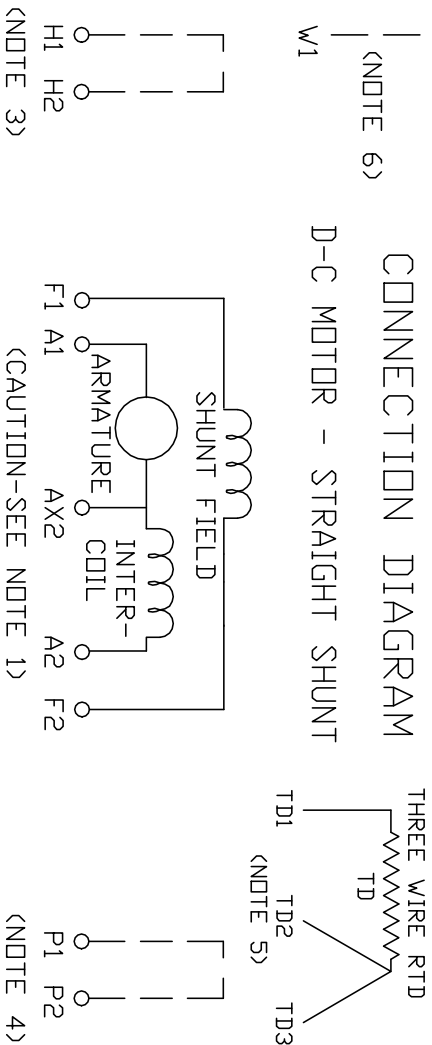
406770-006

CONNECTION DIAGRAM

406770-006

(NOTE 6)

D-C MOTOR - STRAIGHT SHUNT



ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS



ROTATION FACING COMMUTATOR END

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 LEADS 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 _____

CUSTOMER ORDER NO. _____

RELIANCE S.D. NO. _____

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS			BALDOR
REV. LTR: -	VERSION: 00	TDR: 000000781086	
FILE: \RSN\00026\515		REVISED: 02:41:08 02/01/2013	D-C MOTOR CONNECTION DIAGRAM, STRAIGHT SHUNT SH 1 of 1
MTL: -		BY: MGHPC	