

ABB BALDOR RELIANCE III

Customer information packet

D50150P

150HP, 1750/2000RPM, DC, 409AT, DPFG, F1, N

Specifications

Enclosure	DPFG
Frame	409AT
Frame Material	Steel
Output Power	150.000 HP
Agency Approvals	CSA
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
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	44.34 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	B
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0108A A
Layout	877-2
Eff. date	04-04-2022
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

NP1734									
CAT.NO.				MODEL	T40R8002				
HP	150	RPM	1750/2000		FRAME	0409AT			
ARM V	500		ARM A	237.00	WOUND	STR. SHUNT			
FLD V	150/300	FLD A	7.08-4.70/3.54-2.35						
CONN			OHMS			CL	F		
ENCL	DPFG	DUTY	CONT			MX AMB	40		
P CODE	D	CTSR				SER.F.	1.0		
S/N				E/S	K0108A A				
BRUSH:40019-3									
O.D.E. BRG.	6213	D.E. BRG.	6214	BRUSH				QTY	

Parts List

Part number	Description	Quantity
SA297009	SA T40R8002	1.000 ea
AA016060	AA T40R8002	1.000 ea
036170004DA	DRSCW METRIC NAMEPLATE	4.000 ea
NP1734	NPL,BALDOR DC MTR ALUMINUM	1.000 ea
150047-2	TERMINAL, FR 400, B DIM=2-1/2	4.000 ea
150048-2	TERMINAL,400FR,B DIM=2-3/4	4.000 ea
15209	LABEL CONNECTIONS & TERMINAL MARKIN	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 ea
15094	DISHED LOCKWASHER .332 ID, .865 OD	4.000 ea
40005-2	DUAL BRUSH ROCKER ASSY	1.000 ea
40019-3	BRUSH,400 FR. SERIES E-77 SGL/CARBON	8.000 ea
004824015A	GREASE POLYREX EM	0.900 lb
032018010BK	HHCS 5/16-18X1-1/4 PLTD.	4.000 ea
032018010DK	HHCS 1/2-13X1-1/4 PLATED	4.000 ea
032018010DK	HHCS 1/2-13X1-1/4 PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
151132	WAVE SPRING,#SSB-0492, CARB.STL,SMALLEY	1.000 ea
40020-2	FE BRKT MACH FR 400	1.000 ea
40021-2	CE BRKT MACH FR 400 STD L	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	2.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	44.000 ea
032018006DK	HHCS 1/2-13X3/4 PLATED	4.000 ea
034036014AB	EX.TOOTH LCKW 3/8 PLTD.	1.000 ea
15021-1	ACCESSORY FACE COVER FRAME 180-500 SERIE	1.000 ea
15025	TERMINAL BOX BACK FRAME 36 & 40 SERIES #	1.000 ea
15026-1	COVER TERM BOX MACH FR 36 & 40 SERIES	1.000 ea
150906-62	GRDG STUD,HX HD BOLT 3/8-16,W/HD PAINTED	1.000 ea

15599-37	DRIVE SCR,#10 X.37 TYPE UPLATED STEEL	6.000 ea
36018-2	SLD CVR,CE,FR-360 14 GA(.075THK)	1.000 ea
36019-1	GASKET CVR,FE,3/32 THK, ARMSTRONG DC205	4.000 ea
36019-2	GASKET CVR,CE,3/32 THK ARMSTRONG DC205	4.000 ea
36020-1	SMILE CVR,(LOUVERS)FR-36018 GA C.R. STEE	1.000 ea
36057-1	VENT CVR,LVR,FE,FR-360 18 GA(.048THK)	3.000 ea
36057-2	VENT CVR,LUVR,CE,FR-360 18 GA(.048THK)	3.000 ea
36246	GASKET,TERM.BOX,FR.360 1/8 THK ARMSTRONG	1.000 ea
40030-1	FLANGENIPPLEMACH400FRAME3"-8N.P.T40030	1.000 ea
HW4001A15	3.00 NPT RECESSED HEAD PLUG, RIGID (PLG	1.000 ea
004824007BTW	SPECIAL PAINT4824-3BVZ	0.300 ea
034180032HA	KEY 5/8X5/8X4	1.000 ea

Accessories

Part number	Description	Multiplier
96EP5000A01	C-FACE CONVERSION KIT FOR STOCK MTR,FR 4	

CUSTOMER NAME		MODEL NO.			MTG.		REMARKS:	
CUSTOMER P.O.		FRAME		R.P.M.	VOLTS	PHASE		INSUL
CERTIFIED BY		DATE	H.P.	TYPE	ENCL	FREQ.		AMB.
								SHEET 2 OF 3
UNITS: INCH		SCALE: NONE	PROPORTION: NONE	PART NUMBER	877	DWG. SIZE A		

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

1/2-13 UNC-2B THD'S
1.00 DEEP IN SHAFT END

45°

8.498
8.500 DIA.

.40
.19

ACCESSORY 'C' FACE

1.1245
1.1250 DIA.

STANDARD COMM END
FOR SINGLE SHAFT EXTENSION

FC

C

.75 ACCESSORY 'C' FACE

.40

.19

N

FU

FV

FN

AIR IN

.25

BS

2F

B

BA

N-W

W

U

V

XL

AF

P

AB

AC

O

D

J

E

2E

A

HOLE FOR 'AA' CONDUIT

FRAME	FOOT MOUNTING						D.E. SHAFT EXTENSION				DRIVE KEY		ACC SHAFT EXTENSION			ACC KEY		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
407AT	6.63	8.00	18.00	.81	.938	4.00	5.44	5.25	2.625	5.00 ³	.19	.625	4.00	4.95	2.375	4.70	.625	3.50	20.00	20.00	40.13	44.34	10.00 ²	20.19	20.38
L407AT	6.63	8.00	18.00	.81	.938	4.00	5.44	5.25	2.625	5.00 ³	.19	.625	4.00	4.95	2.375	4.70	.625	3.50	20.00	20.00	41.25	45.46	10.00 ²	20.19	20.38
409AT	6.63	8.00	22.00	.81	.938	4.00	5.44	5.25	2.625	5.00 ³	.19	.625	4.00	4.95	2.375	4.70	.625	3.50	20.00	24.00	44.63	48.84	10.00 ²	20.19	20.38
L409AT	6.63	8.00	22.00	.81	.938	4.00	5.44	5.25	2.625	5.00 ³	.19	.625	4.00	4.95	2.375	4.70	.625	3.50	20.00	24.00	45.75	49.96	10.00 ²	20.19	20.38
L4011AT	6.63	8.00	28.00	.81	.938	4.00	5.44	5.25	2.625	5.00 ³	.19	.625	4.00	4.95	2.375	4.70	.625	3.50	20.00	30.00	52.75	56.96	10.00 ²	20.19	20.38

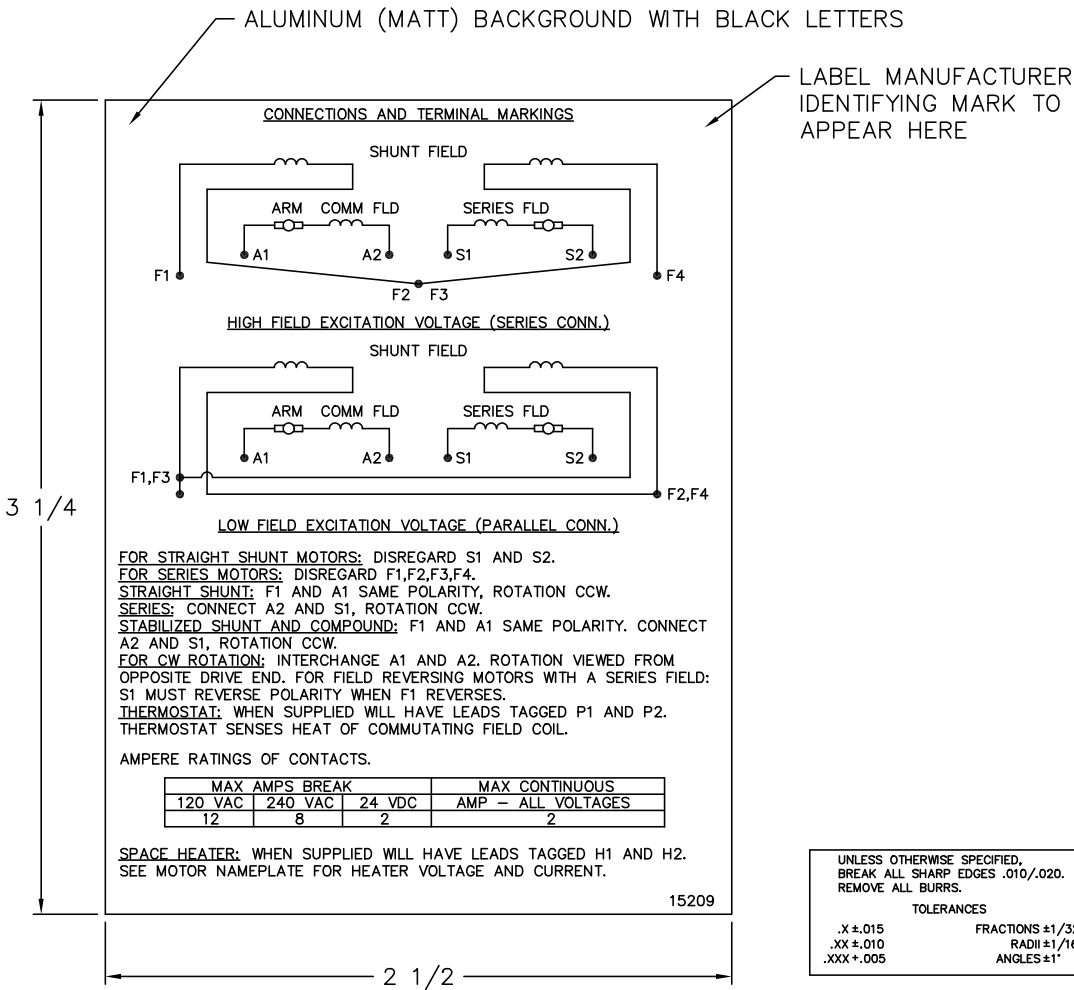
FRAME	CONDUIT BOX							ARM APPROX. WK ² LBS.FT. ²	APPROXIMATE WEIGHT
	AA	AB	AC	AF	BS	XL	XN		
407AT	3	18.28	14.45	3.34	14.50	11.63	7.76	35.47	1317 ⁵
L407AT	3	18.28	14.45	3.34	15.62	11.63	7.76	35.47	1367 ⁵
409AT	3	18.28	14.45	3.34	19.00	11.63	7.76	43.81	1613 ⁵
L409AT	3	18.28	14.45	3.34	20.12	11.63	7.76	43.81	1663 ⁵
L4011AT	4	19.28	14.63	3.50	27.70	13.40	13.50	55.64	2260 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) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
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

DESIGNER CSL 7-19-91	BALDOR	TITLE: DIMENSION SHEET			
ENGINEER RFL 7-19-91		DPFG, STD AT			
ENGINEER DAC 7-19-91		SHEET 2 OF 3			
MANUF. RWT 7-19-91					
B 54100	ADD L4011AT FRAME	CSL 3-16-1994	PART NUMBER	DWG. SIZE	REV.
REV.	ECO.	DESCRIPTION	BY	DATE	B

15209



NOTE:
MATERIAL .005 MINIMUM FULL HARD ALUMINUM DULL FINISH.
TEMP. RANGE -20°C TO +125°C MAXIMUM.
FOR INDOOR AND OUTDOOR MOUNTING BACK.
METAL, PRESSURE SENSITIVE BACK. MUST MEET CSA STANDARD.
THE CSA IDENTIFYING MARK OF THE LABEL MANUFACTURER MUST APPEAR IN THE UPPER RIGHT HAND CORNER AS INDICATED.

MATL: NOTED			
REV:	G	CHANGE ALL "NAMEPLATE" TEXT TO "LABEL"	
60Z91		SCALE: —	BY: BKW
		FILE: CHB00002485	REVISED: 02/19/97
		TDR: 0115147	

BALDOR ELECTRIC Co.

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC

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