

ABB BALDOR RELIANCE III

Customer information packet

D50500R-BV

500HP, 1750RPM, DC, C4412ATZ, DPG-FV,

Specifications

Enclosure	DP
Frame	C4412ATZ
Frame Material	Steel
Output Power	500.000 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	C
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	58.32 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger

Part Detail

Revision	C
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	G9048A D
Layout	616492-001
Eff. date	11-14-2023
CD Diagram	406770-006
Poles	00
Leads	
Proprietary	False
Created date	04-09-2015

Nameplate

000613006HP									
CAT.NO.	D50500R-BV	SPEC NO.	T44T1305						
FR	C 4412ATZ	HP	500	DUTY	CONT				
ENCL.	DP	RPM	1750/2050	S.F.	1.0				
ENCL MOD	FORCE VENT	VOLTS	500	INSUL	F				
MAX SAFE SPEED	03000	AMPS	797.00	AMB.	40				
FIELD DATA		SER.NO.							
WINDING	STR. SHUNT	POWER CODE	C						
VOLTS	300	D.E. BRG.	110BC02J30X						
MAX AMPS @ 25 C	10.87	O.D.E. BRG.	95BC02J30X						
HOT AMPS	7.84/5.59	MIN. AMB.	0	TYPE				TR	
BRUSH:419904052BK									

Parts List

Part number	Description	Quantity
SA296993	SA T44T1305	1.000 ea
AA016044	AA T44T1305	1.000 ea
000613006HP	NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO	1.000 ea
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	8.000 ea
000692000FS	WARNING LABEL	1.000 ea
406770006	C/D TAG STRAIGHT SHUNT	1.000 ea
706305020A	GUARD, SHAFT	1.000 ea
036000016JB	HHCS M8-1.25X16MMPLTD-250	4.000 ea
036000025LB	HHCS M12-1.75X25 ZP 304538 036000025LA	4.000 ea
036501009AB	M8-1.25 X 9MM HEX NUTS	8.000 ea
036600009AB	METRIC FLWASH M8 PLATED	4.000 ea
036610011AB	METRIC LCKW M12 PLTD-G512	4.000 ea
419904-52BK	BRUSH	24.000 ea
419905004A	HARDWARE	8.000 ea
424418001A	PLATE (ROCKER CLAMP PLAT	4.000 ea
616057001RE	ROCKR METRIC	1.000 ea
706364053A	BRHLD (PHANTOM) -53A	4.000 ea
034693003AB	PPLG 3/8" SLOT PIPE PLUG	1.000 ea
034693003AB	PPLG 3/8" SLOT PIPE PLUG	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
036000012JB	M8-1.25 X 12MM HXHDC	14.000 ea
036000070PB	HHCS M20-2.5X70MM PLTD.	4.000 ea
036000070PB	HHCS M20-2.5X70MM PLTD.	4.000 ea
036000080KB	HHCSM10-1.5X80MMPLTD-360	4.000 ea
036000090KB	HHCS,DE CAP - 400	4.000 ea
418150003A	GREASE FITTING CAP	2.000 ea
424433001A	WAVY SPRING WSHER	1.000 ea
611917002Z	GASKT	1.000 ea
611917002Y	GASKET, NEOPRENE	1.000 ea

708518003A	COVER, HANDHOLE-SOLID	1.000 ea
708518005A	COVER, HANDHOLE SOLID	1.000 ea
804834001A	BRKT,ODE,C440	1.000 ea
807501001A	BRKT,DE,C440	1.000 ea
004824015A	GREASE POLYREX EM	1.100 lb
000613006NT	NAME PLATE IEC	1.000 ea
032018004CK	HHCS 3/8-16X1/2L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
036000012KB	M10 1.50 X 12MM HXHDCS	4.000 ea
036000020JB	HHCS M8-1.25X20L PLTD-250	8.000 ea
036000025JB	HHCS M8X25MM LONG PLATED	8.000 ea
036000030KB	HHCS M10-1.5X30LPLTD-400 (304529)	4.000 ea
036000055KB	M10-1.5 X 55MM HHCS	4.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	2.000 ea
036100020JA	M8-1.25 X 20MM HXSOCHDCS	6.000 ea
036620010AB	M10 EXT. TOOTH LK WASHER	1.000 ea
417733036B	GASKT,C/BOX BACKPLATE,REF 706310063E	2.000 ea
036000016KB	HHCSM10-1.5X16MM PLTD-280	2.000 ea
410978021A	FLANGE, INLET BLOWER HSG	1.000 ea
417733013E	GASKT L440	1.000 ea
036000020HD	HHCS M6X20MM LONG 304S.S	8.000 ea
417733014F	GASKT L440	1.000 ea
036000020JD	HHCS M8X20MM LONG 304S.S	5.000 ea
418018074A	GROUND LABEL G100 METRIC 160 D.C.	4.000 ea
418057256C	HHCS M10 25MM 440 IEC	1.000 ea
036600008AD	FLTWSHR,T BLK SPT	8.000 ea
422919317	HHCVK KIT,L440,DE/ODE, SOLID	1.000 ea
422919317	HHCVK KIT,L440,DE/ODE, SOLID	1.000 ea
422919327	HHCVK KIT,C440,ODE,SOLID	1.000 ea
422919333	HHCVK KIT,C440,ODE,LOUVERED	1.000 ea
422919333	HHCVK KIT,C440,ODE,LOUVERED	1.000 ea
424414001A	GASKT	2.000 ea
611917002Y	GASKET, NEOPRENE	3.000 ea
424415001A	ADAPT	1.000 ea

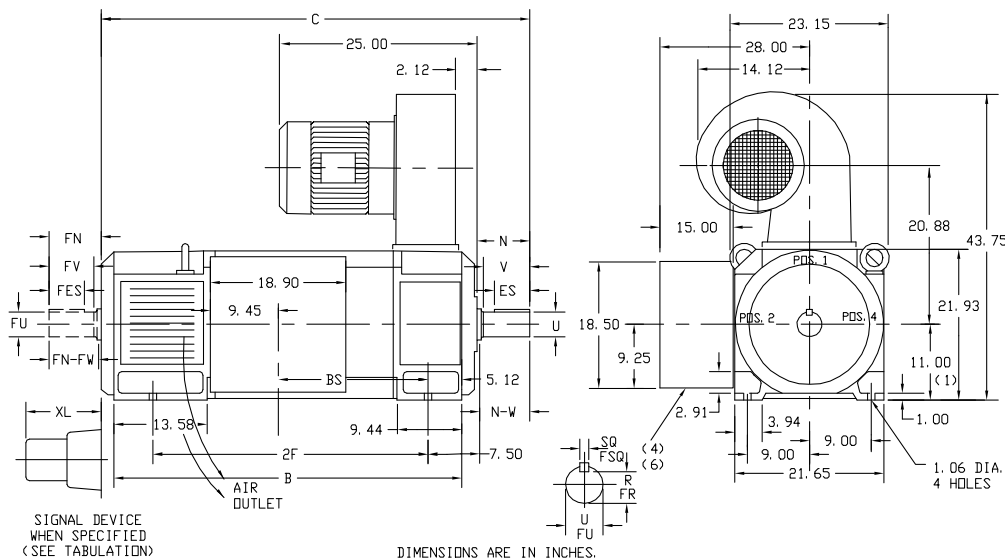
424416001A	ADAPT	1.000 ea
610409082A	ADAPTER	1.000 ea
610490003G	5HP,3490RPM,3PH,60HZ,184TC,0632M,TEFC,F1	1.000 ea
415000103F	TLUG	2.000 ea
611917002Z	GASKT	1.000 ea
706310058E	KOBX CVR - 18.90 [480] X 19.49 [495]	1.000 ea
706310389A	706310389AA ENTRY PLATE	1.000 ea
706310063E	CBOX L440 1260A MAX	1.000 ea
708520001C	BLOWER WHEEL	1.000 ea
708528008A	SCROLL WELDMENT	1.000 ea
000640000P	TAG WINDING THERMOST	1.000 ea
000692000NG	LABEL ;NP 4POLE METRIC LABEL	1.000 ea
034180046KA	KEY 7/8X7/8X5-3/4L	1.000 ea
036000025NF	SCREW, HEX M16 BRASS	2.000 ea
004824007K	SPECIAL PAINT	0.300 ea
417744143G	PACKAGING (PHANTOM)	1.000 ea
418018071	LABEL LABE	1.000 ea

ENCLOSURE: DRIP PROOF FULLY GUARDED
SPLASHPROOF
MOUNTING: FOOT

COOLING: FORCE VENTILATED WITH
INTEGRAL BLOWER & MOTOR

ACCESSORIES: FLANGE MOUNTED
TACHOMETER

FRAME C4412ATZ - C4414ATZ



SIGNAL DEVICE
WHEN SPECIFIED
(SEE TABULATION)

DIMENSIONS ARE IN INCHES.

FRAME	DUTY	C	BS	B	2F	DRIVE END SHAFT AND KEY						(S) OPPOSITE DRIVE END SHAFT AND KEY						WT. (LBS)		
						N	N-W	C/2	V	R(3)	SQ	ES	FN	FN-FW	FUC(2)	FV	FR(3)		F3SQ	FES
C4412ATZ	COUPLED	58.32	19.81	46.56	36.00	7.62	7.25	3.625	7.00	3.134	.875	5.75	7.62	7.25	3.625	7.00	3.134	.875	5.75	3245
UC4412ATZ	BELTED	59.32	19.81	46.56	36.00	8.62	8.25	4.125	8.00	3.563	1.000	6.50	7.62	7.25	3.625	7.00	3.134	.875	5.75	3275
C4413ATZ	COUPLED	62.25	23.75	50.56	40.00	7.62	7.25	3.625	7.00	3.134	.875	5.75	7.62	7.25	3.625	7.00	3.134	.875	5.75	3660
UC4413ATZ	BELTED	63.25	23.75	50.56	40.00	8.62	8.25	4.125	8.00	3.563	1.000	6.50	7.62	7.25	3.625	7.00	3.134	.875	5.75	3690
C4414ATZ	COUPLED	68.56	30.05	56.56	45.00	7.62	7.25	3.625	7.00	3.134	.875	5.75	7.62	7.25	3.625	7.00	3.134	.875	5.75	4280
UC4414ATZ	BELTED	69.56	30.05	56.56	45.00	8.62	8.25	4.125	8.00	3.563	1.000	6.50	7.62	7.25	3.625	7.00	3.134	.875	5.75	4310

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

REV. DESC: ADD AV56 TO DS		
REV. LTR: B	VERSION: 02	TDR: 000000865577
FILE: \RGG\00016\134	REVISED: 02:50:00 08/04/2014	BY: RGGWT
MTL: -		

SIGNAL DEVICE	XL	WT. (LBS.)
SPY	10.88	7
BC-42	13.38	25
BC-46	15.68	35
M-627A	10.50	14
M-628A	10.50	14
M-727A	10.50	14
M-737A	10.50	14
RD-11	10.00	17
RD-51	16.68	38
RD-61	10.00	17
H56	10.00	17
RE-045	2.56	5
RE-210	15.31	17
TG2169A	2.56	5
TS2014N	6.50	5
TS2087N	11.00	17
RD-120	1.88	5
ST67/RL67	2.00	5
HS35	3.00	5
M285	3.12	20
RPY444	11.00	15
M3 DR M4	3.62	10
AV56	2.00	5

- (1) THIS DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCH IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) 'U' AND 'FU' VARY +.000 - .001.
- (3) 'R' AND 'FR' VARY +.000 - .015.
- (4) REMOVEABLE COVER PLATE FOR CUSTOMER DRILLING. TERMINAL BOX CAN BE POSITIONED FOR EITHER TOP OR BOTTOM CONDUIT ENTRY.
- (5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.
- (6) TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, S, W-7 OR C-1 MOUNTING IS SPECIFIED.
- (7) AIR FILTER SUPPLIED ONLY WHEN SPECIFIED.
- (8) BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1,2 OR 4.

Page 8 of 8