

ABB BALDOR RELIANCE III

Customer information packet CDMG2315

0259ATC, 15KWKW, 1750RPM, 230, 230, DPFG, F2

Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	230 V
Output Power	15.000 KW
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	65.0 a
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	COMPOUND
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	28.00 IN
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

Part Detail

Revision	D
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0041A
Layout	2056
Eff. date	10-22-2021
CD Diagram	
Poles	00
Leads	
Proprietary	False
Created date	11-21-2019

Nameplate

15405													
CAT.NO.			MODEL NO.		T25S8010								
KW	15KW	RPM	1750		FRAME		0259ATC						
ARM VOLTS	230		ARM AMPS		65.00		WOUND		COMPOUND				
FIELD VOLTS	230		FIELD AMPS		2.00-1.33								
FIELD CONN.			OHMS	115.0		INSUL. CLASS				F			
ENCL	DPFG	DUTY		CONT		MAX AMBIENT			40				
SERVICE FACTOR	1.0												
S/N			E/S	K0041A									
	BRUSH:150986-25-1												
O.D.E. BRG.	6207	D.E. BRG.		6209	BRUSH		150986-25-1					QTY	4

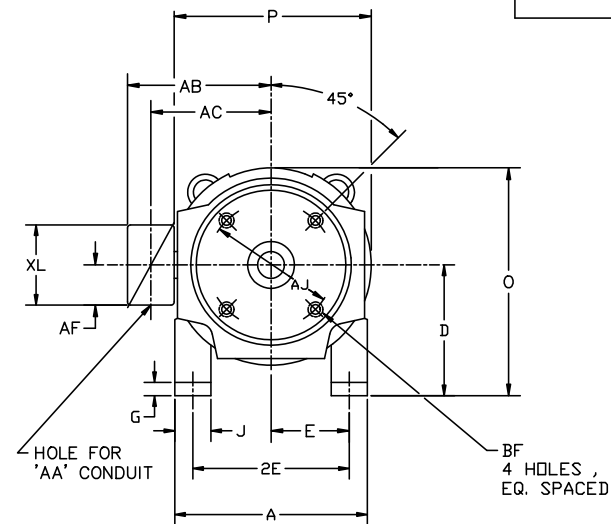
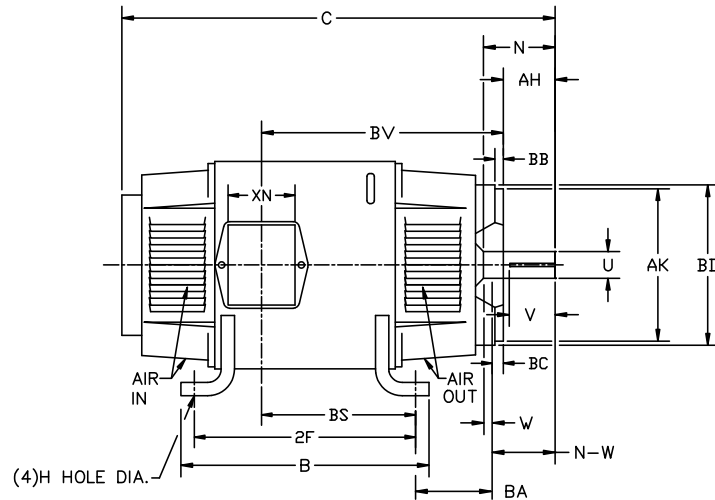
Parts List

Part number	Description	Quantity
SA376265	SA T25S8010	1.000 ea
AA018189	AA T25S8010	1.000 ea
036170004DA	DRSCW METRIC NAMEPLATE	4.000 ea
15405	ALUM CSA DC GENERATOR	1.000 ea
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
004824007AB	PAINT,XT	0.100 ea
034017014AB	LCKW 3/8 STD. PLATED	8.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	2.000 ea
15094	DISHED LOCKWASHER .332 ID, .865 OD	2.000 ea
25686-2	ROCKER RING ASSY FR 250	1.000 ea
150986-25-1SP	BRUSH,250 FR. SERIES E-41	4.000 ea
25034-10	ODE BRKT MACH FR 250,GENERATOR, LOCKED O	1.000 ea
25067-3	FE BRKT MACH FR 250 C-FACE,LOCKED	1.000 ea
032130010CA	3/8-16 X 1.25 HSHCS	4.000 ea
032130010CA	3/8-16 X 1.25 HSHCS	4.000 ea
HA4048A05	DRIVE-IN PLUG,1.38"EXPAN.PLUG,	1.000 ea
HW5100A09	W3328-036 WVY WSHR (WB)	1.000 ea
032130016AA	HSHCS	2.000 ea
034690001AC	P/PLG	2.000 ea
150449-25	T BOX GRD STUD ARG 1/4 20 DIA. STUD	1.000 ea
25108-1	GASKET,TERM BOX,1/8"CORK NEOPRENE(DC-205	1.000 ea
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25106	TERMINAL BOX HOLE COVER, FR 250	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 ea
25048-1	CVR GASKET,CE,FR-250 3/32 THK CORK/N	3.000 ea
25048-2	CVR GASKET,FE,FR-250 3/32 THK CORK/NEO	3.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	28.000 ea
25062-2	LOUVER COVER,FE,FR-250 18GA C.R. STEEL	3.000 ea
25062-1	LOUVER COVER,CE,FR-250 18GA C.R. STEEL	3.000 ea
25109	TERMINAL BOX BASE FR 250	1.000 ea
25110	TERMINAL BOX COVER FR 250	1.000 ea

25111	GASKET,COVER,1/8"THK CORK/NEOPRENE (DC-2	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	2.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 ea
151128	LABEL DC GENERATOR CONN. & TERMINA	1.000 ea
034180018FA	KEY 3/8 SQ X 2.25"	1.000 ea
004824007BTW	SPECIAL PAINT4824-3BVZ	0.100 ea

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	259	15.0HP	1750	230	65.0
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DPG	40/F	CONT
POWER CODE		TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C
D		T	2.686	.401	2.00
ARM. CIR. IND. (mh)		FIELD IND. (H)	COOLING AIR (CFM/IN H ₂ O)		TEST DATE
5.12		91.9	-/-		-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN OZ.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	552	0	0	1533	0
1/4	16	0	0	1452	0
2/4	33	0	0	1378	0
3/4	49	0	0	1322	0
4/4	65	0	0	1261	0
O.L.	98	0	0	1171	0
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
1.33	1532	1261	259	248	
1.09	1681	1699	238	225	
.858	1944	1811	207	195	
.620	2481	1990	162	156	
.382	3824	2300	105	108	
REMARKS: TYPICAL DATA					
		DR. BY <u>E.H.GILLOT</u> CK. BY <u>B. GRANT</u> APP. BY <u>R.ERLACHER</u> DATE <u>01-23-2009</u>		D-C MOTOR PERFORMANCE DATA DK0041A ISSUE DATE 01-23-2009	

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	FOOT MOUNTING						D.E. SHAFT EXTENSION													DRIVE KEY		FRAME					
FRAME	BA	E	2F	G	H	J	AH	AJ	AK	BB MIN.	BC	BD	THREAD	BF DEEP	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	A	B	C	D	O	P
1810AT	2.75	3.75	11.00	.38	.406	1.50	2.125	7.250	8.500	.25	—	8.69	1/2-13	.75	2.90	2.77	1.125 ¹	2.50 ³	.13	.250	1.38	12.25	12.25	21.46	4.50 ²	9.00	9.00
219AT	3.50	4.25	11.00	.50	.406	2.00	2.50	7.250	8.500	.24	.25	8.75	1/2-13	1.00	3.00	2.75	1.375 ¹	2.50 ³	.25	.312	1.75	12.00	12.00	24.50	5.25 ²	10.47	10.44
258AT	4.25	5.00	12.50	.69	.531	2.25	3.00	7.250	8.500	.27	.25	8.75	1/2-13	.97	3.44	3.25	1.625 ¹	3.00 ³	.19	.375	2.31	12.38	14.00	26.50	6.25 ²	12.47	12.44
259AT	4.25	5.00	14.00	.69	.531	2.25	3.00	7.250	8.500	.27	.25	8.75	1/2-13	.97	3.44	3.25	1.625 ¹	3.00 ³	.19	.375	2.31	15.50	15.50	28.00	6.25 ²	12.47	12.44
288AT	4.75	5.50	14.00	.69	.531	2.50	3.50	9.000	10.500	.25	.25	10.75	1/2-13	.75	3.91	3.75	1.875 ¹	3.50 ³	.16	.500	2.50	15.62	15.62	32.00	7.00 ²	13.88	13.75
328AT	5.25	6.25	16.00	.81	.656	3.00	4.00	11.000	12.500	.25	.25	12.75	5/8-11	.88	4.40	4.25	2.125 ¹	4.00 ³	.15	.500	3.12	17.75	17.75	34.63	8.00 ²	15.94	15.88
329AT	5.25	6.25	18.00	.81	.656	3.00	4.00	11.000	12.500	.25	.25	12.75	5/8-11	.88	4.40	4.25	2.125 ¹	4.00 ³	.15	.500	3.12	19.75	19.75	36.63	8.00 ²	15.94	15.88

CONDUIT BOX								APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN	
1810AT	3/4NPT	INTEGRAL WITH ENDPLATE						195
219AT	3/4-1	7.91	6.44	2.44	9.38	3.81	3.12	260
258AT	1-1/4	9.35	7.72	2.94	9.75	4.94	4.00	366
259AT	1-1/4	9.35	7.72	2.94	11.25	4.94	4.00	411
288AT	1-1/4	11.88	9.25	5.00	12.64	7.88	5.25	566
328AT	2	12.94	10.32	5.00	13.68	7.88	5.25	775
329AT	2	12.94	10.32	5.00	15.68	7.88	5.25	884

- 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 - .030
- 3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
- 4) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
- 5) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

MATL:	—		
REV:	—	NEW DWG. RELEASE	
990Z		SCALE: —	BY: MBT
		FILE: CHB00004002	REVISD: 07/28/95
		TDR: 0078613	

BALDOR ELECTRIC Co.

DIM SHEET, 1810ATC THRU 329ATC GENERATORS

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