

**BALDOR® • RELIANCE** 

**Product Information Packet**

**D2020P**

**20HP/1750-2300RPM/DC/NEMA 259AT**

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	DC	Prod. Type:		Elec. Spec:		CD Diagram:	
Enclosure:		Mfg Plant:		Mech. Spec:		Layout:	876-1
Frame:		Mounting:		Poles:	00	Created Date:	02-17-2014
Base:		Rotation:	R	Insulation:		Eff. Date:	10-28-2016
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Specs			
Frame:	259AT		
Frame Material:	Steel		
Agency Approvals:	CSA		
Base Indicator:	Rigid		
Bearing Grease Type:	Polyrex EM (-20F +300F)		
Drip Cover:	No Drip Cover		
Feedback Device:	NO FEEDBACK		
Heater Indicator:	No Heater		
Insulation Class:	F		
Lifting Lugs:	Standard Lifting Lugs		
Shaft Extension Location:	Pulley End		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Slinger Indicator:	No Slinger		
Motor Standards:	NEMA		

Nameplate NP1734										
CAT.NO.	D2020P			MODEL	T25R8004					
HP	20	RPM	1750/ 2300		FRAME	259AT				
ARM V	240	ARM A	70.50		WOUND	STR. SHUNT				
FLD V	300	FLD A	1.24-1.50/1.39-.75							
CONN		OHMS	167.6			CL	F			
ENCL	DPFG	DUTY	CONT			MX AMB	40			
P CODE	D	CTSR				SER.F.	1.0			
S/N			E/S	K00037A A						
	FLD DATA FOR HIGH VOLTS									
	FLD VOLTS									
O.D.E. BRG.	6207	D.E. BRG.	6209		BRUSH	150986-25-1			QTY	4

Parts List		
Part Number	Description	Quantity
SA281207	SA T25R8004	1.000 EA
AA015375	AA T25R8004	1.000 EA
NP1734	NPL,BALDOR DC MTR ALUMINUM	1.000 EA
15209	LABEL CONNECTIONS & TERMINAL MARKIN	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	2.000 EA
25017-1	FAN MACHINING FRAME 25 SERIES	1.000 EA
25029	BALANCE RING,4.19"OD X 3.130"ID,7GA STEE	2.000 EA
034141177AA	EXT SNAP RING	1.000 EA
15553-797	KEY .250/.248 SQ X 7.97 LONG	1.000 EA
25028	ROTOR WASHER FRAME 25 SERIES	1.000 EA
25028	ROTOR WASHER FRAME 25 SERIES	1.000 EA
613410001B	BDSHF	1.000 EA
032018016CK	HHCS 3/8-16X2 PLATE	4.000 EA
032018016CK	HHCS 3/8-16X2 PLATE	4.000 EA
046001026F	THERMOSTAT	1.000 EA
25022-1	INTERPOLE STACK	2.000 EA
424504009BB	250 SHIMS M2	1.000 EA
424508151A	BALDOR ROUND DC FRAME INSULATION B/M	1.000 EA
034141137AA	SNAP RING	1.000 EA
15094	DISHED LOCKWASHER .332 ID, .865 OD	2.000 EA
032130010CA	3/8-16 X 1.25 HSHCS	4.000 EA
25066-6	FE BRKT MACH FR 250 FOR LOCKED ODE	1.000 EA
HW5100A09	W3328-036 WVY WSHR (WB)	1.000 EA
032018003AK	HHCS 1/4-20X3/8L PLATED	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 EA
15599-37	DRIVE SCR,#10 X.37 TYPE UPLATED STEEL	5.000 EA
25106	TERMINAL BOX HOLE COVER, FR 250	1.000 EA
25108-1	GASKET,TERM BOX,1/8"CORK NEOPRENE(DC-205	2.000 EA
28022-1	VENT GUARD,WITH LOUVERS	1.000 EA
482415000A	GREASE (MOBIL POLYREX EM)	1.360 LB
032130010CA	3/8-16 X 1.25 HSHCS	4.000 EA
032130016AA	HSHCS	2.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
25034-6	CE BRKT MACH FR 250 LOCK ODE BRG	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
15094	DISHED LOCKWASHER .332 ID, .865 OD	2.000 EA
150986-25-1	BRUSH,250 FR. SERIES E-41,HELWIG CARB.PR	4.000 EA
25686-2	ROCKER RING ASSY FR 250	1.000 EA
032018004AK	HHCS 1/4-20X1/2 PLATED	2.000 EA
032018004AK	HHCS 1/4-20X1/2 PLATED	28.000 EA
032018006DK	HHCS 1/2-13X3/4 PLATED	4.000 EA
15021-1	ACCESSORY FACE COVER FRAME 180-500 SERIE	1.000 EA
150449-25	T BOX GRD STUD ARG 1/4 20 DIA. STUD	1.000 EA
25036-1	ACCESS COVER ODE, FR 250 SERIES	1.000 EA
25048-1	CVR GASKET,CE,FR-250 3/32 THK CORK/N	3.000 EA

Product Information Packet: D2020P - 20HP/1750-2300RPM/DC/NEMA 259AT

25048-2	CVR GASKET,FE,FR-250 3/32 THK CORK/NEO	3.000 EA
25062-1	LOUVER COVER,CE,FR-250 18GA C.R. STEEL	2.000 EA
25062-2	LOUVER COVER,FE,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
MG1025G05	WILKOFAS, 789.227, MED. GRAY CHAR. MET.	0.100 GA
034180018FA	KEY 3/8 SQ X 2.25"	1.000 EA
PA1100	PACK FOR #1 SKID; CUSTOM	1.000 EA
MG5047	VARNISH 004824-001HM	0.200 GA
609848007C	NOMEX WASHER, ROUND DC 2POLE ODE	1.000 EA
LB1171	LABEL CARTON 6X6 ON LINE BLANK	1.000 EA
482413015Y	#15 SLVG	6.000 FT
482413008Y	#8 SLEEVING (GREEN)	6.000 FT
041009029B	CONNECTOR, RTD	4.000 EA
041009029E	#8 BUTT CONNECTOR	3.000 EA
MN605	INTEGRAL HP DC MOTORS 2/09	1.000 EA

876-1

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

3/8-16 UNC-2B THD'S  
.88 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  
XN  
FN  
FU  
FV  
AIR IN  
AIR OUT  
BS  
2F  
B  
BA  
N-W  
U  
V  
W

AB  
AC  
P  
XL  
AF  
G  
J  
E  
A  
D  
O  
2E

HOLE FOR 'AA' CONDUIT

FRAME	FOOT MOUNTING						D.E. SHAFT EXTENSION						DRIVE KEY		ACC SHAFT			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
218AT	3.50	4.25	10.00	.50	.406	2.00	3.00	2.75	1.375	2.50 <sup>3</sup>	.25	.312	1.75	2.44	1.125	2.19	.250	2.25	10.38	11.00	24.25	25.93	5.25 <sup>2</sup>	10.47	10.44
219AT	3.50	4.25	11.00	.50	.406	2.00	3.00	2.75	1.375	2.50 <sup>3</sup>	.25	.312	1.75	2.44	1.125	2.19	.250	2.25	10.38	12.00	25.25	26.93	5.25 <sup>2</sup>	10.47	10.44
2110AT	3.50	4.25	12.50	.50	.406	2.00	3.00	2.75	1.375	2.50 <sup>3</sup>	.25	.312	1.75	2.44	1.125	2.19	.250	2.25	10.38	13.50	26.75	28.43	5.25 <sup>2</sup>	10.47	10.44
258AT	4.25	5.00	12.50	.69	.531	2.25	3.44	3.25	1.625	3.00 <sup>3</sup>	.19	.375	2.31	3.33	1.375	3.08	.312	3.00	12.38	14.00	27.25	29.84	6.25 <sup>2</sup>	12.47	12.44
259AT	4.25	5.00	14.00	.69	.531	2.25	3.44	3.25	1.625	3.00 <sup>3</sup>	.19	.375	2.31	3.33	1.375	3.08	.312	3.00	12.38	15.50	28.75	31.34	6.25 <sup>2</sup>	12.47	12.44
2510AT	4.25	5.00	16.00	.69	.531	2.25	3.44	3.25	1.625	3.00 <sup>3</sup>	.19	.375	2.31	3.33	1.375	3.08	.312	3.00	12.38	17.56	30.75	33.34	6.25 <sup>2</sup>	12.47	12.44
2513AT	4.25	5.00	22.00	.69	.531	2.25	3.44	3.25	1.625	3.00 <sup>3</sup>	.19	.375	2.31	3.33	1.375	3.08	.312	3.00	12.38	23.50	36.75	39.34	6.25 <sup>2</sup>	12.47	12.44

  

FRAME	CONDUIT BOX						ARM APPROX. WK <sup>2</sup> LBS.FT. <sup>2</sup>	APPROXIMATE WEIGHT	
	AA	AB	AC	AF	BS	XL			XN
218AT	3/4-1	7.91	6.44	2.44	8.38	3.81	3.12	1.35	242 <sup>5</sup>
219AT	3/4-1	7.91	6.44	2.44	9.38	3.81	3.12	1.49	260 <sup>5</sup>
2110AT	3/4-1	7.91	6.44	2.44	10.88	3.81	3.12	1.71	286 <sup>5</sup>
258AT	1 1/4	9.35	7.72	2.94	9.75	4.94	4.00	2.91	366 <sup>5</sup>
259AT	1 1/4	9.35	7.72	2.94	11.25	4.94	4.00	3.31	411 <sup>5</sup>
2510AT	1 1/4	9.35	7.72	2.94	13.25	4.94	4.00	3.80	471 <sup>5</sup>
2513AT	1 1/4	9.35	7.72	2.94	19.25	4.94	4.00	5.27	532 <sup>5</sup>

- 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

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

REV. DESC: REV. "D" DIM TO +.000 - .060 ONLY	VERSION: 01	TDR: 000000752566
REV. LTR: B	REVISED: 09: 35: 03 06/20/2012	BY: RGGNAS
FILE: \RGG\00019\505		
MTL: -		

**BALDOR**

DIM SHEET, 218AT-2513AT, DPGF, STD

SH 1 of 1

876-1