ABB BALDOR RELIANCE

Customer information packet

D5025P

287-8AT, 25HP, 1750RPM, 500, 150, DPFG, F1

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Specifications

Armature Voltage	500 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	150 V
	300 V
Frame	287AT
Output Power	25.000 HP
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	43.4 a
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	STR. SHUNT
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	31.00 IN
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

Part Detail

Revision	-
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0073A B
Layout	1757
Eff. date	12-26-2019
CD Diagram	15209
Poles	00
Leads	
Proprietary	False
Created date	12-20-2019

Nameplate

NP1734											
CAT.NO.				**MODEL**	T28S8002						
HP	25	**RPM**	1750/2300		**FRAME**	287-8AT					
ARM V	500	**ARM A**		43.40	**WOUND**	STR. SHUNT					
FLD V	150/300	**FLD A**	3.30-1.96/1.65-.98								
CONN		**OHMS**	121.5		**CL**	F					
ENCL	DPFG	**DUTY**	CONT		**MX AMB**	40					
P CODE	D	**CTSR**			**SER.F.**	1.0					
S/N				**E/S**	K0073A B						
	-										
O.D.E. BRG.	6209	**D.E. BRG.**	6210		**BRUSH**	28610-2			**QTY**	2	

Parts List

Part number	Description	Quantity
SA377377	SA T28S8002	1.000 ea
AA018245	AA T28S8002	1.000 ea
036170004DA	DRSCW METRIC NAMEPLATE	4.000 ea
NP1734	NPL,BALDOR DC MTR ALUMINUM	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	2.000 ea
15094	DISHED LOCKWASHER .332 ID, .865 OD	2.000 ea
BP5228R01	BR ROCKER ASSY,FR 28 & 32 SINGLE BRUSH	1.000 ea
28610-2SP	BRUSH,280/320FR.,E-77	2.000 ea
28040-3	CE BRKT MACH FR 280 LOCKED C.E. BR	1.000 ea
28041-1	FE BRKT MACH FR280 FOR LOCKED C.E	1.000 ea
004824015A	GREASE POLYREX EM	0.300 lb
032130010CA	3/8-16 X 1.25 HSHCS	4.000 ea
032018038CK	HHCS 3/8X4-3/4 PLTD.	4.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A10	W3519-038 WAVY WASHER, FOR 6308 BRG	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
032130018BA	HSHCS 2-1/4" LG M2	4.000 ea
150449-31	GRD STUD ARG .312DIA STUD	1.000 ea
15024-7	28021-2/BOX FR. 280/3201/8" THK.,MUELL	1.000 ea
15024-7	28021-2/BOX FR. 280/3201/8" THK.,MUELL	1.000 ea
032018006DK	HHCS 1/2-13X3/4 PLATED	4.000 ea
15115	TERM BOX HOLE COVER FRAME 280 & 320	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 ea
28021-2	GASKET COVER COM END FRAME 280 SERIES	3.000 ea
28021-1	GASKET,CVR,FAN END,FR.2803/32 THK DC205(	3.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	28.000 ea
28045-1	SIDE VENT CVR W/LOUVERS 280 SERIES	3.000 ea
28020-2	ACCESS COVER FRAME 28 SERIES	1.000 ea
28045-2	SIDE VENT COVER W/LOUVERSFR.280 SERIES	2.000 ea

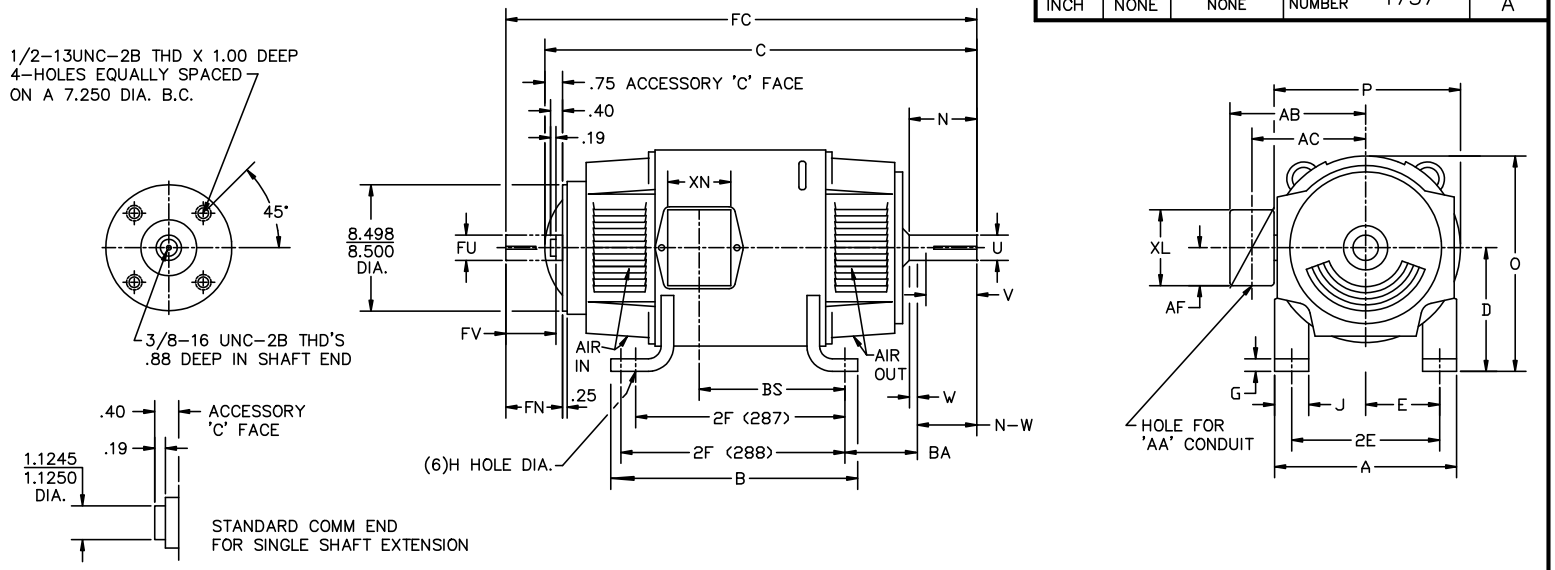
15599-37	DRIVE SCR,#10 X.37 TYPE UPLATED STEEL	6.000 ea
28022-1	VENT GUARD,WITH LOUVERS	1.000 ea
15024-3	TERM.BOX BASE FR-280 DUREX P/N:3CT	1.000 ea
15024-4	TERM.BOX CVR. FR-28,32,36DUREX P/N:D618	1.000 ea
15024-5	GASKET, T.BOX COVER	1.000 ea
032018004AK	HHCS 1/4-20X1/2 PLATED	2.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 ea
15209	LABEL CONNECTIONS & TERMINAL MARKIN	1.000 ea
15021-1	ACCESSORY FACE COVER FRAME 180-500 SERIE	1.000 ea
034180020GA	KEY 1/2X1/2X2-1/2 L	1.000 ea
004824007BTW	SPECIAL PAINT4824-3BVZ	0.100 ea

Accessories

Part number	Description	Multiplier
93EP5000A02	C-FACE CONVERSION KIT FOR STOCK MTR,FR 2	

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.

UNITS: INCH	SCALE: NONE	PROPORTION: NONE	PART NUMBER 1757	DWG.SIZE A



	FOOT MOUNTING							D.E. SHAFT EXTENSION					DRIVE KEY		ACC SHAFT EXTENSION			ACC KEY		FRAME						
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
			287	288																						
287–8AT	4.75	5.50	12.50	14.00	.69	.531	2.50	3.91	3.75	1.875	3.50 [3]	.16	.500	2.50	3.44	1.625	3.19	.375	2.44	13.81	15.62	31.00	33.71	7.00 [2]	13.88	13.75

	CONDUIT BOX							ARM APPROX. WK^2 LBS.FT.^{2}	APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN		
287–8AT	1 1/4	11.88	9.25	5.00	10.89	7.88	5.25	4.67	506 [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 – .030
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

REV.	ECO.	DESCRIPTION	BY	DATE
–	29996	NEW RELEASE	RL	11–12 1992

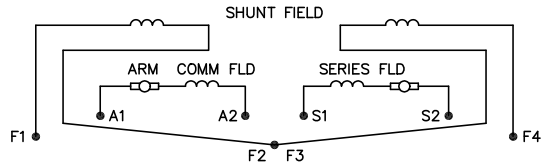
DESIGNER RL 11–12–92	BALDOR	
ENGINEER RFL 11–12–92	TITLE: DIMENSION SHEET 287–8AT,DPFG	
ENGINEER DAG 11–12–92		
MANUF. RWT 11–12–92	PART NUMBER 1757	DWG.SIZE A / REV. –

15209

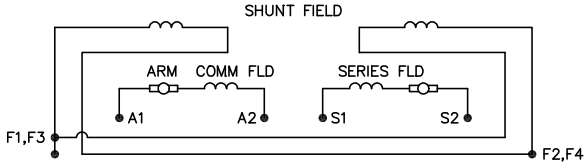
ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

CONNECTIONS AND TERMINAL MARKINGS



HIGH FIELD EXCITATION VOLTAGE (SERIES CONN.)



LOW FIELD EXCITATION VOLTAGE (PARALLEL CONN.)

FOR STRAIGHT SHUNT MOTORS: DISREGARD S1 AND S2.
FOR SERIES MOTORS: DISREGARD F1,F2,F3,F4.
STRAIGHT SHUNT: F1 AND A1 SAME POLARITY, ROTATION CCW.
SERIES: CONNECT A2 AND S1, ROTATION CCW.
STABILIZED SHUNT AND COMPOUND: F1 AND A1 SAME POLARITY. CONNECT A2 AND S1, ROTATION CCW.
FOR CW ROTATION: INTERCHANGE A1 AND A2. ROTATION VIEWED FROM OPPOSITE DRIVE END. FOR FIELD REVERSING MOTORS WITH A SERIES FIELD: S1 MUST REVERSE POLARITY WHEN F1 REVERSES.
THERMOSTAT: WHEN SUPPLIED WILL HAVE LEADS TAGGED P1 AND P2. THERMOSTAT SENSES HEAT OF COMMUTATING FIELD COIL.

AMPERE RATINGS OF CONTACTS.

MAX AMPS BREAK			MAX CONTINUOUS
120 VAC	240 VAC	24 VDC	AMP – ALL VOLTAGES
12	8	2	2

SPACE HEATER: WHEN SUPPLIED WILL HAVE LEADS TAGGED H1 AND H2. SEE MOTOR NAMEPLATE FOR HEATER VOLTAGE AND CURRENT.

15209

3 1/4

2 1/2

NOTE:
MATERIAL .005 MINUMUM 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 INDENTIFYING MARK OF THE LABEL MANUFACTURER MUST APPEAR IN THE UPPER RIGHT HAND CORNER AS INDICATED.

UNLESS OTHERWISE SPECIFIED,
BREAK ALL SHARP EDGES .010/.020.
REMOVE ALL BURRS.

TOLERANCES

.X ±.015 FRACTIONS ±1/32
.XX ±.010 RADII ±1/16
.XXX +.005 ANGLES ±1°

MATL: NOTED				
REV:	G	CHANGE ALL "NAMEPLATE" TEXT TO "LABEL"		
15209	SCALE: –	BY: BKW	REVISED: 02/19/97	
	FILE: CHB00002485		TDR: 0115147	

BALDOR ELECTRIC Co.

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC

15209