

BALDOR® • RELIANCE

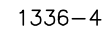
Product Information Packet

D5040P-BV

40HP,1750/2100RPM,DC,328AT,DPBV,F1

Copyright © All product information within this document is subject to Baldor Electric Company copyright © protection, unless otherwise noted.

Part Detail			
Type:	DC	Prod. Type:	T
Power Code:	D	Weight:	830
Frame Group:	0328AT	Mounting Pos.:	F1
HP:	40	Enclosure:	DPBV
RPM:	1750/2100	Wound:	STR. SHUNT
Service Factor:	1.0	Arm V:	500
Arm A:	67.90	Field V:	150/ 300
Field A:	6.80/3.40	Field A Hot:	4.34-3.00/2.17-
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	6211
ODE Bearing:	6210	Brushes:	28610-2
Brush Qty.:			



XC TACH MOUNTING KIT

3/16 x 3/32 KEYWAY (REF.)

.406 DIA. THRU 4-HOLES EQ. SPACED @ 90° ON 1.5875 DIA. B.C. (REF.)

.627 / .629 DIA. (REF.)

4.502

4.501

4.5

3.68

XPY TACH MOUNTING KIT

COUPLING FOR .313 DIA. SHAFT

4.5

1/4-20 UNC-2B THDS. 4-HOLES EQ. SPACED @ 90° ON 3.976 DIA. B.C. (REF.)

2.21

2.502

2.501

4.25

2.44

- 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 AND BLOWER LESS TACH WEIGHT.
- 6) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT
FACTORY FOR TOLERANCES.

1336-4

SH 1 of 1

15209

ALUMINUM (MATT) BACKGROUND WITH BLACK LETTERS

LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

3 1/4

2 1/2

15209

15209

CONNECTIONS AND TERMINAL MARKINGS

HIGH FIELD EXCITATION VOLTAGE (SERIES CONN.)

SHUNT FIELD

ARM COMM FLD

S1 S2

F1 F3

F2 F4

LOW FIELD EXCITATION VOLTAGE (PARALLEL CONN.)

SHUNT FIELD

ARM COMM FLD

S1 S2

F1,F3

F2,F4

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.

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

TOLERANCES

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

MATL: NOTED

REV: G CHANGE ALL "NAMEPLATE" TEXT TO "LABEL"

60291

SCALE: - BY: BKW REVISED: 02/19/97

FILE: CHB00002485 TDR: 0115147

BALDOR ELECTRIC Co.

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC

Page 4 of 7

BALDOR

A MEMBER OF THE ABB GROUP

For Baldor Sales and Support, Please Contact: Walker EMD • <http://www.walkeremd.com> • Toll-Free: (800) 876-4444 • Phone: (203) 426-7700 • Fax: (203) 426-7800

REL. S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	328	40.0HP	1750	500	67.9
WINDING TYPE					
	S.F.	ENCL.	AMB °C/INSUL	DUTY	FIELD VOLTS
STRAIGHT SHUNT	1.0	DPG	40/F	CONT	300
POWER CODE					
	TYPE	WK ² (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
D	T	7.377	.495	3.39	138
ARM. CIR. IND. (mh)					
	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)		TURNS PER COIL SHUNT/SERIES	TEST DATE
8.53	61.3	-/-		2000/.00000	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN LB.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	2.4	0	0	1812	0
1/4	17	27.9	9.51	1790	75.7
2/4	34	60.0	20.2	1769	84.0
3/4	51	91.4	30.5	1752	86.0
4/4	68	121	40.3	1745	86.0
O.L.	102	176	58.5	1751	84.1
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
2.16	1811	1745	481	465	
1.99	1910	1831	459	443	
1.82	2028	1949	432	416	
1.65	2180	2102	401	386	
1.48	2380	2300	366	352	
REMARKS: TYPICAL DATA					

BALDOR
BALDOR • DOUG • RELIANCE

DR. BY E. H. GILLIOT
CK. BY K. ERLACHER
APP. BY K. ERLACHER
DATE 04-02-2009

D-C MOTOR
PERFORMANCE
DATA
DK0066A
ISSUE DATE 07-16-2009

