

BALDOR® • RELIANCE

Product Information Packet

ZDBRPM25504

50HP, 1750RPM, 3PH, 60HZ, 2570, TEBC, FOOT

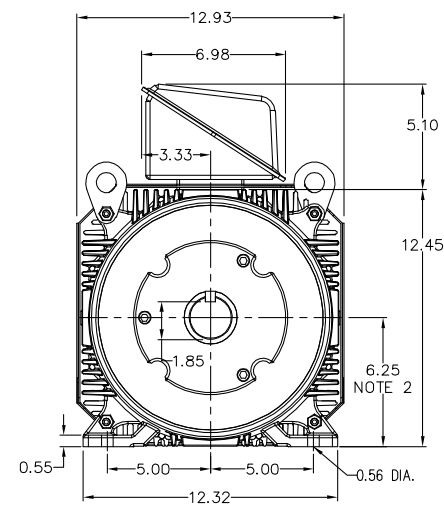
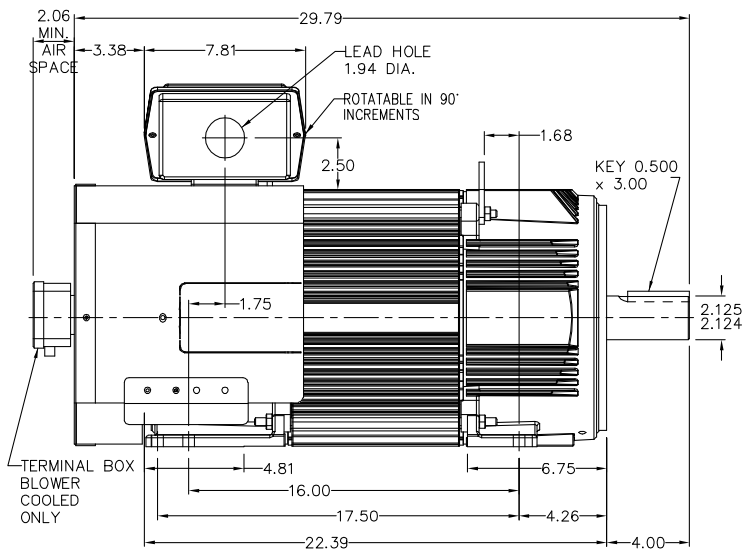
Part Detail			
Model Number:	ZDBRPM25504	Environment:	General Purpose
Voltage:	460	Output:	50 HP
RPM:	1775/3545	Efficiency:	NA
Phase:	3	Frequency:	N/A
Inverter Duty:	Y	Enclosure:	TEBC
Frame Group:	250	Frame Size:	FL2570Z
Features:	RPM AC	Mounting:	Foot Mounted
Service Factor:	1	Enclosure Group:	TEBC
Weight:	0	Price Symbol:	E2
Speed Range:		Insulation Class:	H
Nema Design:		Encl. Enhancement:	
Catalog Page:	B-196	Dimension Sheet:	617573-1
Connection Diagram:	422927-1	Electric Design:	L3380A
Single HP:	50	Get Notes:	RPM AC
Revision:		Instruction Manual:	
Application:	Variable Speed-V*S	Epact:	
Scaled Drawing:		Obsolete:	N
Last Data Source:	RGG,MADD	Bearing Type:	
Electrical Type:		Mounting Pos.:	
Ambient:	40	Duty:	
Amps:		Nominal Eff.:	
Kva Code:		Power Factor:	
Poles:	00	Literature:	

RPM-AC FINNED FRAME VARIABLE SPEED ALTERNATING CURRENT MOTOR
ENCLOSED FL2570Z COOLING: BLOW

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
DRIVE METHOD: COUPLED OR BELTED

COOLING: BLOWER COOLED or
FAN COOLED

ACCESSORIES: PROVISIONS FOR
TACHOMETER MOUNTING
ONLY WHEN SPECIFIED



NOTE 1: C-FACE & TACHOMETER MOUNTING
1/2-13 TAP, 1.00 DEEP, ON A 7.25 DIA. BOLT CIRCLE
FACE RUNOUT AND ECCENTRICITY 0.004 MAX. T.I.R.

NOTE 2: SHAFT HEIGHT WILL NOT BE EXCEEDED
SHIMS UP TO 0.03 INCHES IN THICKNESS ARE USUALLY
REQUIRED FOR COUPLED OR GREARED MACHINES

TERMINAL BOX MAY BE LOCATED F1 OR F2 IF SPECIFIED
121 AMP STEEL TERMINAL BOX SHOWN
REFER TO 616779-50 FOR SPECIFIED TERMINAL BOX DIMENSIONS
REFER TO 616779-55 FOR SPECIFIED TACHOMETER DIMENSIONS

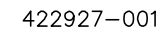
MOTOR WEIGHT: 475 LBS. (MAY VARY 15%)
DIMENSIONS ARE IN INCHES SCALE: 1.00

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

REV. DESC: RE-RELEASED TO D/S INDEX		
REV. LTR: A	VERSION: 01	TDR: 000000500799
FILE: \RGG\00003\138	REVISED: 08:28:35 05/22/2009	BY: CONDLN
MTL: -		

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DIM SHT FL2570Z RPM AC TE BLWR OR FAN COOLED
SH 1 of 1



NOTE:
DATA TO BE SIZED
SO THAT IT FITS INTO
MATERIAL DECAL
DIMENSIONS. MAKE
LETTERS & NUMBERS
AS LARGE AS POSSIBLE.

MATERIAL: CERAMATIC DGF-P4
PERMA GRIP ADHESIVE

ALL LETTERS, NUMBERS
AND LINES TO BE BLACK
ON WHITE BACKGROUND.

NOTE: CONNECT ALL LEADS WITH THE SAME MARKING TOGETHER WHEN CONNECTING POWER TO THE MOTOR

422927-1

422927-001

REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE		
REV. LTR: B	VERSION: 02	TDR: 000000788708
FILE: \RGG\00000\203		REVISED: 08:09:29 03/04/2013
MTL: -		BY: RGGWT

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EXTERNAL CONNECTION LABEL
SH 1 of 1

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN	EQ CKT OHMS PER PHASE
FRAME	FL2570	AMPS	65	MAX SAFE RPM	5000	(AT BASE RATING, 25 °C)	
HP	50	DUTY	CONT	IM (AMPS)	34	R1 .0778	X1 .380
BASE SPEED	1775	S.F.	1.0	P.F. @NL/FL	.049/.795	R2 .0486	X2 .480
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK² (LB-FT²)	3.84		XW 8.13

RATED FULL LOAD DATA						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1774	50.0	148	460	60	65.1
MAX SPEED	3542	50.0	74	460	120	59.8
MIN SPEED	0	0	148	14.6	.875	65.1

LOAD PERFORMANCE AT BASE SPEED						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	33.0
1/4	1794	12.5	37	460	60	36.0
1/2	1787	25.0	74	460	60	43.4
3/4	1781	37.5	111	460	60	53.4
FULL LOAD	1774	50.0	148	460	60	65.1
0/L	1741	98.1	296	460	60	122

BLOWER DATA	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: TYPICAL DATA
CORRELATED DATA

BALDOR		DR. BY <u>B. GRANT</u>	A-C MOTOR PERFORMANCE DATA
BALDOR • DOUG • RELIANCE		CK. BY <u>B. GRANT</u>	
		APP. BY <u>T. CUPR</u>	
DATE <u>8-14-06</u>		ISSUE DATE <u>8-14-06</u>	

