

BALDOR® • RELIANCE

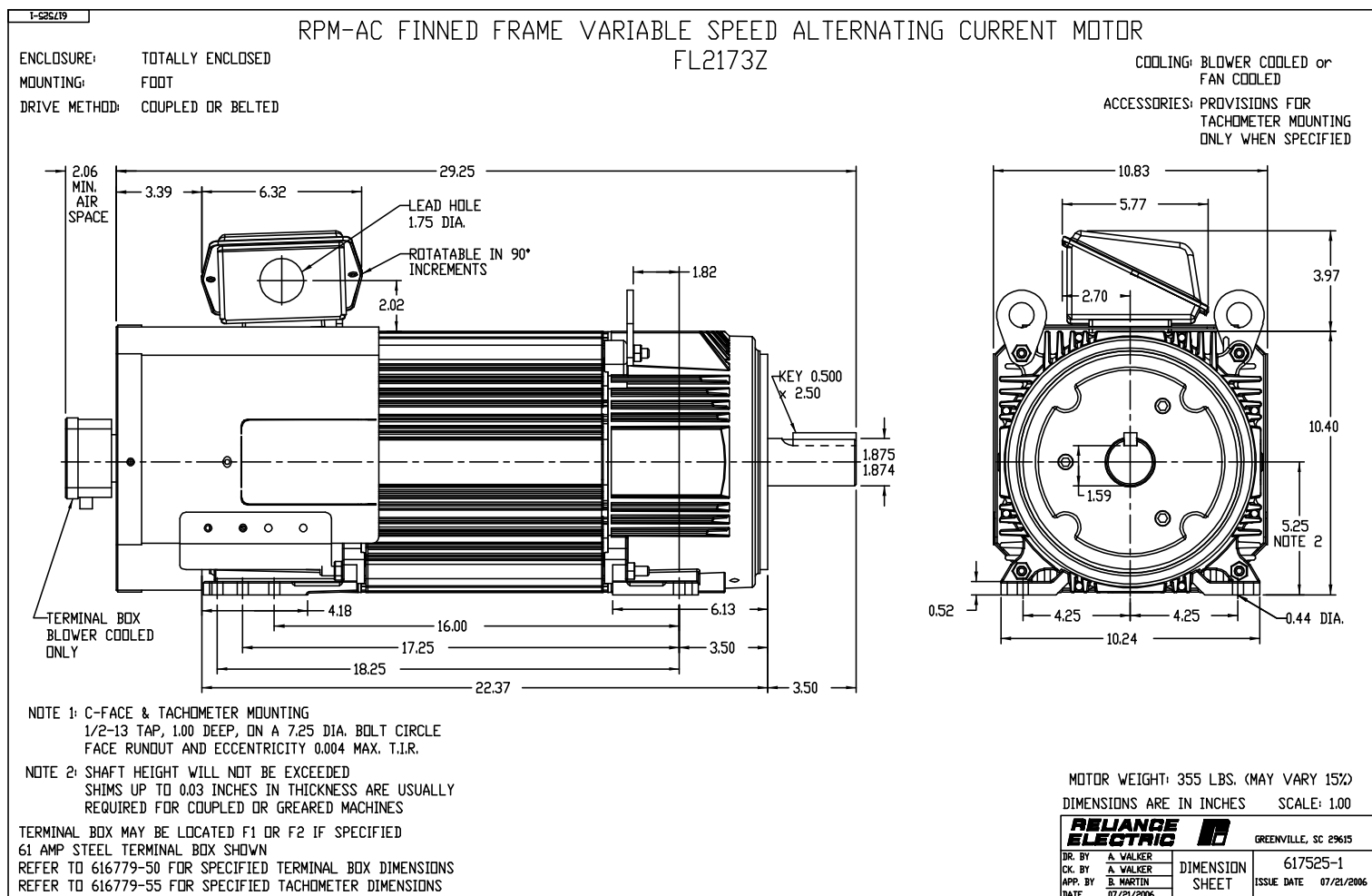
Product Information Packet

IDBRPM21404

40 HP 1750 TEBC FL2173 460 V

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Part Detail			
Model Number:	IDBRPM21404	Environment:	General Purpose
Voltage:	460	HP:	40
RPM:	1770/3525	Efficiency:	NA
Phase:	3	Frequency:	N/A
Inverter Duty:	Y	Enclosure:	TEBC
Frame Group:	210	Frame Size:	FL2173Z
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-194	Dimension Sheet:	617525-1
Connection Diagram:	422927-1	Electric Design:	L3311A
Single HP:	40	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:	



422927-001																															
← 2.88 MAX. → ↑ 3.25 MAX. ↓ BALDOR 3 PHASE-DUAL VOLTAGE <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">LOW VOLTAGE</th> <th style="padding: 5px;">HIGH VOLTAGE</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">P1 } THERMOSTAT LEADS</td> <td style="padding: 5px;">P1 } THERMOSTAT LEADS</td> </tr> <tr> <td style="padding: 5px;">P2 } THERMOSTAT LEADS</td> <td style="padding: 5px;">P2 } THERMOSTAT LEADS</td> </tr> <tr> <td style="padding: 5px;">U/T1 → L1</td> <td style="padding: 5px;">U/T1 → L1</td> </tr> <tr> <td style="padding: 5px;">V/T2 → L2</td> <td style="padding: 5px;">V/T2 → L2</td> </tr> <tr> <td style="padding: 5px;">W/T3 → L3</td> <td style="padding: 5px;">W/T3 → L3</td> </tr> <tr> <td style="padding: 5px;">T4</td> <td style="padding: 5px;">T4</td> </tr> <tr> <td style="padding: 5px;">T5</td> <td style="padding: 5px;">T5</td> </tr> <tr> <td style="padding: 5px;">T6</td> <td style="padding: 5px;">T6</td> </tr> </tbody> </table> 3 PHASE-SINGLE VOLTAGE <table border="1" style="margin: auto; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;">P1 } THERMOSTAT LEADS</td> </tr> <tr> <td style="padding: 5px;">P2 } THERMOSTAT LEADS</td> </tr> <tr> <td style="padding: 5px;">U/T1 → L1</td> </tr> <tr> <td style="padding: 5px;">V/T2 → L2</td> </tr> <tr> <td style="padding: 5px;">W/T3 → L3</td> </tr> </tbody> </table> IF REQUESTED <table style="margin: auto;"> <tr> <td style="padding: 5px;">H1 } SPACE HEATER LEADS</td> <td style="padding: 5px;">TD1 } RTD OR THERMISTOR LEADS</td> </tr> <tr> <td style="padding: 5px;">H2 } SPACE HEATER LEADS</td> <td style="padding: 5px;">TD2 } RTD OR THERMISTOR LEADS</td> </tr> <tr> <td></td> <td style="padding: 5px;">TD3 } RTD OR THERMISTOR LEADS</td> </tr> </table> NOTE: DATA TO BE SIZED SO THAT IT FITS INTO MATERIAL DECAL DIMENSIONS. MAKE LETTERS & NUMBERS AS LARGE AS POSSIBLE. <u>MATERIAL:</u> CERAMATIC DGF-P4 PERMA GRIP ADHESIVE ALL LETTERS, NUMBERS AND LINES TO BE BLACK ON GOLD BACKGROUND.			LOW VOLTAGE	HIGH VOLTAGE	P1 } THERMOSTAT LEADS	P1 } THERMOSTAT LEADS	P2 } THERMOSTAT LEADS	P2 } THERMOSTAT LEADS	U/T1 → L1	U/T1 → L1	V/T2 → L2	V/T2 → L2	W/T3 → L3	W/T3 → L3	T4	T4	T5	T5	T6	T6	P1 } THERMOSTAT LEADS	P2 } THERMOSTAT LEADS	U/T1 → L1	V/T2 → L2	W/T3 → L3	H1 } SPACE HEATER LEADS	TD1 } RTD OR THERMISTOR LEADS	H2 } SPACE HEATER LEADS	TD2 } RTD OR THERMISTOR LEADS		TD3 } RTD OR THERMISTOR LEADS
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REV. DESC: CHANGE LOGO TO BALDOR REV. LTR: A VERSION: 01 TDR: 000000556744 FILE: \RGG\00000\203 REVISED: 02:51:59 09/02/2010 MTL: - BY: RGGWT		BALDOR EXTERNAL CONNECTION LABEL SH 1 of 1																													

422927-001

REL S.O.	-	VOLTS	460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)
FRAME	FL2173	AMPS	51	MAX SAFE RPM	5000	
HP	40	DUTY	CONT	IM (AMPS)	20	R1 .100 X1 .495
BASE SPEED	1770	S.F.	1.0	P.F. @NL/FL	.059/.818	R2 .0747 X2 .633
PHASE/HERTZ	3/60	AMB °C/INSUL	40/H	WK ² (LB-FT ²)	2.64	X3 11.5

RATED FULL LOAD DATA						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1768	40.0	119	460	60	50.7
MAX SPEED	3526	40.0	60	460	120	49.0
MIN SPEED	0	0	119	14.9	1.07	50.7

LOAD PERFORMANCE AT BASE SPEED						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	22.9
1/4	1792	10.0	29	460	60	26.1
1/2	1785	20.0	59	460	60	32.4
3/4	1777	30.0	89	460	60	40.8
FULL LOAD	1768	40.0	119	460	60	50.7
0/L	1727	78.2	238	460	60	97.2

BLOWER DATA	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM
	REMARKS: TYPICAL DATA CORRELATED DATA					

	DR. BY	B. GRANT	A-C MOTOR PERFORMANCE DATA L3311A ISSUE DATE 5-21-08
	CK. BY	T. CUER	
	App. BY		
	DATE	6-5-06	

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