

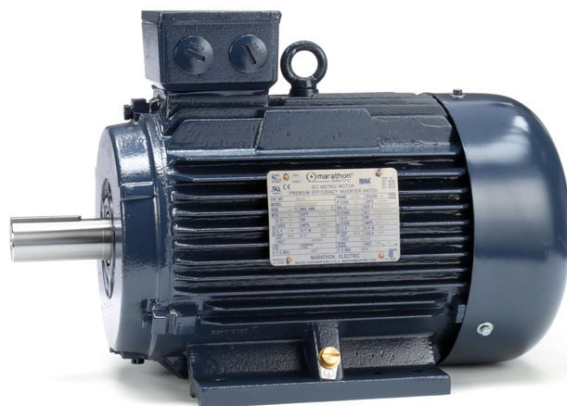
# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 132STFC6502

Catalog No: R330A

Globetrotter® IEC Cast Iron Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,  
3600 & 3000 RPM, 132S Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

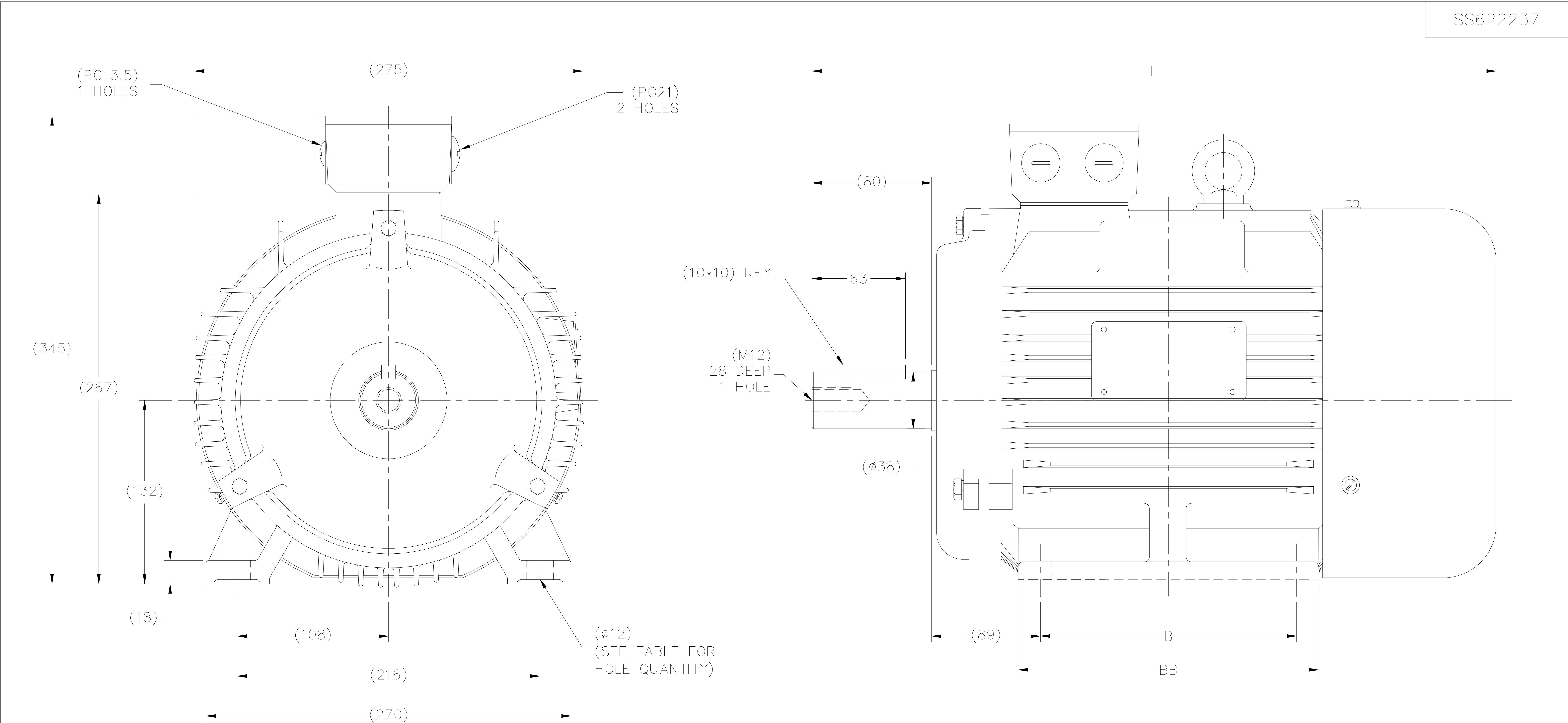
**RegalRexnord**

### Nameplate Specifications

Phase	3	Output HP	10 & 7.5 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 200/400 V
Speed	3535 & 2950 rpm	Service Factor	1.15 & 1.15
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	24/12 & 22/11 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6208	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

### Technical Specifications


Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.5505 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	18.26 in
Shaft Diameter	1.500 in	Shaft Extension	3.14 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 20:1
Outline Drawing	SS622237	Connection Drawing	004172.03



(DRAWING NOT TO SCALE)

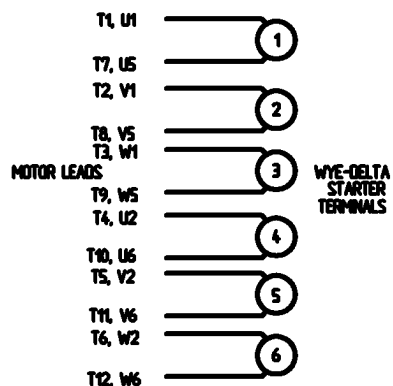
(DIMENSIONS ARE IN MILLIMETERS)

DF132S	4	461	140	186
DF132M	4	499	178	224
FRAME	# HOLES	L	B	BB

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN MSG 11-16-2010					
				DEC.	METRIC		CHK	MJS	11-18-2010			
4	TABLE AND DIMENSIONS UPDATED	NK 07-05-18	NK .X	±2.5			APPD	SB	11-18-2010			
3	(4) FOOT HOLES WERE (6) ECO-0130304	WGJ 10-2-17	EMH .XX	±.76	TITLE OUTLINE – IEC PREMIUM				SCALE	NONE		
2	REM CAT# FROM BLOCK-FOR CAT# SEE SS622237-CAT	MOL 11-29-12	.XXX	±.127	DF132-R FRAME				REF			
1	REV PG13.5 HOLES WERE 2 QTY	MOL 09-24-12	.XXXX	±.0127	MAT'L.				FMF	HEBEI		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH				PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP	11-18-2010	CAD FILE SS622237			SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST						B	SS622237		

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

### LOW VOLTAGE CONNECTION



### HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

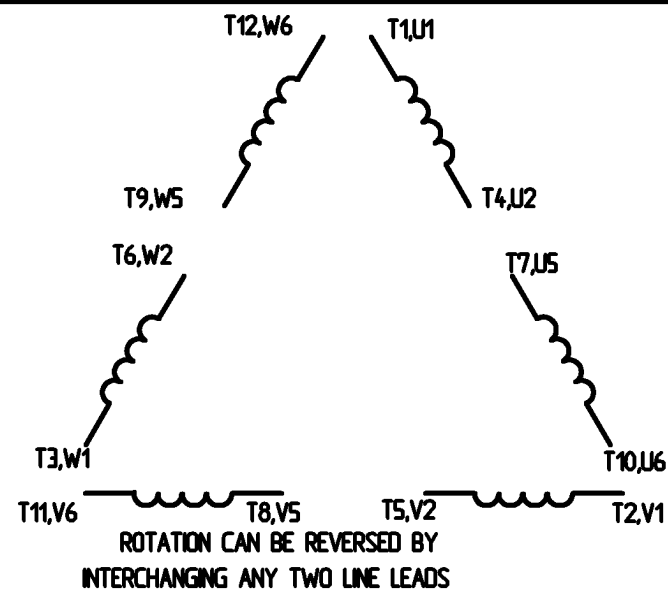
### PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

### LINE LEADS



### 12 LEAD DELTA CONNECTION ACROSS THE LINE START (FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE  
(MUST BE REWIRED  
AS SHOWN)

HIGH VOLTAGE  
(FACTORY WIRED FOR HIGH  
VOLTAGE AS SHOWN)



				TOLERANCES UNLESS SPECIFIED		<div>LEESON</div> <div>ELECTRIC MOTORS GEARMOTORS AND DRIVES</div>	DRAWN C/W 08/28/02	
				DEC.	INCHES		CHK	
				X	± .1		APPO	
				XX	± .01		SCALE	1:1
				XXX	± .005		REF	
				XXXX	± .0005	MAT'L	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	± 1/2°	FINISH	PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT.				REP	CAD FILE	00417203	SIZE A	DRAWING NO. 004172-03
				DST				REV.

ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--

STACK:

/CB  
-dictionary-  
/Pscript\_WinNT\_Compat  
-dictionary-



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CUSTOMER:

ORDER #:

CONN. DIAGRAM: 004172.03

OUTLINE:

SS622237

WINDING:

T10702024

NONE

3

SPEED:

CUSTOMER P.O. #:

REFERENCE MODEL #: 132STFC6502

CAT #:

R330A

CUSTOMER PART #:

MOUNTING: F3

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	3600	3535	132S	TEFC	TFC	H	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#200/400	24/12&22/11	Y START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	90.2	1/2 LD EFF	89.5	GTD EFF		ELECT. TYPE	
F.L. PF	86.5	3/4 LD PF	83.5	1/2 LD PF	76.0		89.5	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
14.9 LB-FT	86.0	31.0 LB-FT 208%	46.0 LB-FT 309%	42	

@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
66 dBA	75 dBA	0.00 LB-FT <sup>2</sup>	0 LB-FT <sup>2</sup>	20 SEC.	2	175 LB.

### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE BALL BALL 6208 6207	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204		CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0	0	0	0	0	0.080	ODE

* N O T E S *		<b>INVERTER TORQUE: CONSTANT 20:1</b> <b>INV. HP SPEED RANGE: 1.5 X BASE SPEED</b>
	<b>ENCODER: NONE</b> NONE NONE	NONE PPR

<b>PREPARED BY:</b> EARL BABBITTS <b>DATE:</b> 13-07-17	<b>BRAKE: NONE</b> NONE <b>FT-LB:</b> NA <b>VOLTAGE:</b> NONE <b>UL:</b> V-INS, CONST UL REC
--	--

FORM: 3531 REV\_4 2/27/06

## Data Sheet

Date: 6/19/2017

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



132STFC6502

Submittal

Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.8	4.8	6.8	9.2	12.0	13.8	14.8	86.0	
Torque (ft-lb)	0.00	3.7	7.4	11.1	14.9	17.2	18.7	31.0	
RPM	3600	3585	3568	3552	3535	3525	3515	0	
Efficiency (%)		84.0	89.5	90.2	90.2	90.2	89.5		
P.F. (%)	10.0	57.0	76.0	83.5	86.5	87.5	88.0	43.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	1800	3100	3535	3600																													
Current (Amps)	86.0	82.0	51.5	12.0	3.8																													
Torque (ft-lb)	31.0	27.0	46.0	14.9	0.00																													
<div><div>— Efficiency (%) — P.F. (%) — Current (Amps)</div><table border="1"><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>84</td><td>57</td><td>4.5</td></tr><tr><td>50</td><td>89</td><td>75</td><td>6.5</td></tr><tr><td>75</td><td>90</td><td>82</td><td>9.5</td></tr><tr><td>100</td><td>90</td><td>86</td><td>12.5</td></tr><tr><td>125</td><td>89</td><td>88</td><td>14.5</td></tr></tbody></table></div>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	84	57	4.5	50	89	75	6.5	75	90	82	9.5	100	90	86	12.5	125	89	88	14.5	Information Block				
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	84	57	4.5																									
						50	89	75	6.5																									
						75	90	82	9.5																									
						100	90	86	12.5																									
						125	89	88	14.5																									
						HP		10.0																										
						Sync. RPM		3600																										
						Frame		132																										
						Enclosure		TEFC																										
						Construction		TFC																										
						Voltage		30/460#200/40V																										
						Frequency		60 Hz																										
						Design		A																										
						LR Code letter		H																										
						Service Factor		1.15																										
Temp Rise @ FL		42 °C																																
Duty		CONT																																
Ambient		40 °C																																
Elevation		1,000 feet																																
Rotor/Shaft wk <sup>2</sup>		0.00 Lb-Ft <sup>2</sup>																																
Ref Wdg		T10702024 NONE																																
Sound Pressure @ 1M		66 dBA																																
VFD Rating		CONSTANT 20:1																																
Outline Dwg		SS622237																																
Conn. Diag		004172.03																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.0000		0.0000		0.0000		0.0000		0.0000																										

## Speed -Torque Curve

