# **PRODUCT INFORMATION PACKET**

Model No: 193390.60 Catalog No: 193390.60 20 HP General Purpose, 3 phase, 3600 RPM, 575 V, 160M Frame, TEFC Cast Iron Motors



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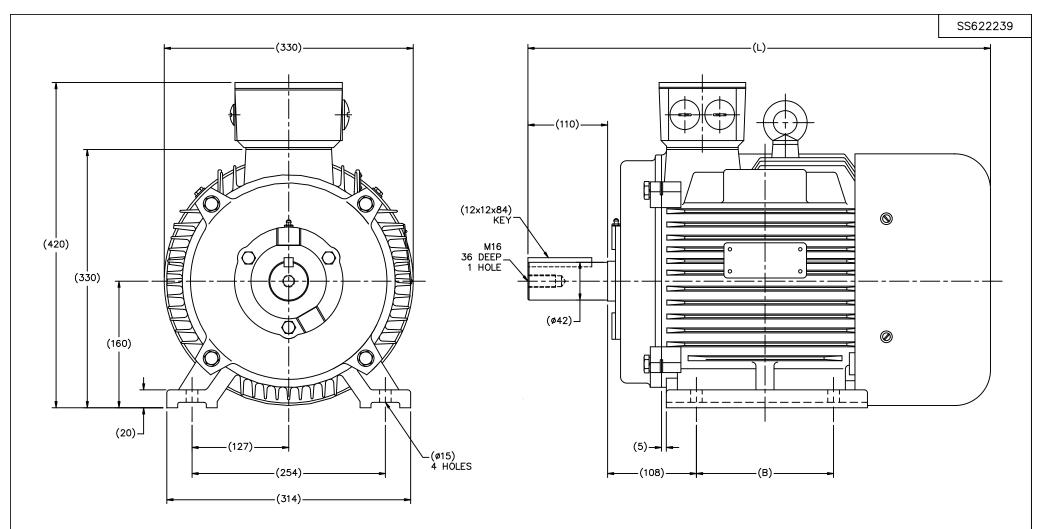
# Nameplate Specifications

Output HP	20 Нр	Output KW	14.9 kW
Frequency	60 Hz	Voltage	575 V
Current	18.4 A	Speed	3540 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6209	Opp Drive End Bearing Size	6209
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
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	IEC
Overall Length	23.62 in	Shaft Diameter	1.625 in
Shaft Extension	4.33 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1		
Outline Drawing	SS622239	Connection Drawing	005190

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#### (MAY NOT BE DRAWN TO SCALE)

#### (DIMENSIONS ARE IN MILLIMETERS)

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				TOL	ERANCES S SPECIFIED			DRAWN	MSG 11-	17-2010
				DEC.	METRIC	EGAL REGAL-BELOT CO	RPORATION	СНК	MJS 11-	18-2010
				.x	±2.5				SB 11-	18-2010
Γ				.xx	±.76	TITLE OUTLINE - IEC PREMIUM		SCALE	5=	16
Г				.xxx	±.127	DF160-R (II)				
Г				.xxxx	±.0127	MAT'L.		FMF	HE	BEI
N	. REVISION	BY & DATE	СНК	ANG	±7'30"	FINISH		PREV		
Г	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT				-18-2010	0AD TILL 35022209	E DRAWING NO		E OF	REV.
	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION AP THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE T	DIST				8   SS6	5222	39		

DF160M1-2R	193315.60	600	210
DF160M2-2R	193318.60	600	210
DF160M-4R	193316.60	600	210
DF160L-2R	193321.60	645	254
DF160L-4R	193319.60	645	254
DF160M-6R	193314.60	600	210
FRAME	PART #	L	в



1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

#### **CATALOG #:** 193390.60

## **CONN. DIAGRAM:** 005190

## MOUNTING: F3

**OUTLINE:** SS622239 **WINDING #:** T12902035 4

TYPICAL	MOTOR	PERFORMANCE	DATA
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ΗР	kW	SYNC, RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20	14.9	3600	3540	160M	TEFC	G	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	18.4	Y START D RUN OR INV	CONTINUOUS	F5	1.15	40

FULL LOAD EFF:	91.7	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	91.7	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	88.5	3/4 LOAD PF:	87	1/2 LOAD PF:	84	90.2	SQ CAGE INV RATED

F.L. TORQUE LOCKED ROTOR AMPS		L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.6 <b>LB-FT</b>	112	62.5 <b>LB-FT</b> 210 %	75.5 <b>LB-FT</b> 255 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	1.41 <b>LB-FT^2</b>	- LB-FT^2	20 <b>SEC.</b>	2	- LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		CREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME	
DE	ODE GREASE		SHAFT TYPE SPECIAL DE		SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE		CAST IRON	
6209	6209	POLIKEX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON	

THERMO-PROTECTORS				THERMISTORS	CONTROL		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE HEATERS	
NONE	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*				INVERTER TORQUE: INV. HP SPEED RANG		Γ2:1	
Ν				ENCODER: NONE			
0				NONE NONE NONE	PPR		
т			Ī	BRAKE: NONE	NONE		
_				NONE P/N NO	NE		
E				NONE NONE			
S			l	NONE FT-LB NO	DNE V	NO BRAKE	Hz

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