

PRODUCT INFORMATION PACKET



Model No: 108020.00
Catalog No: 108020.00
SCR Motor, 1 HP, 90 V, 2500 RPM, S56C Frame, TEFC



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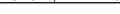
Nameplate Specifications

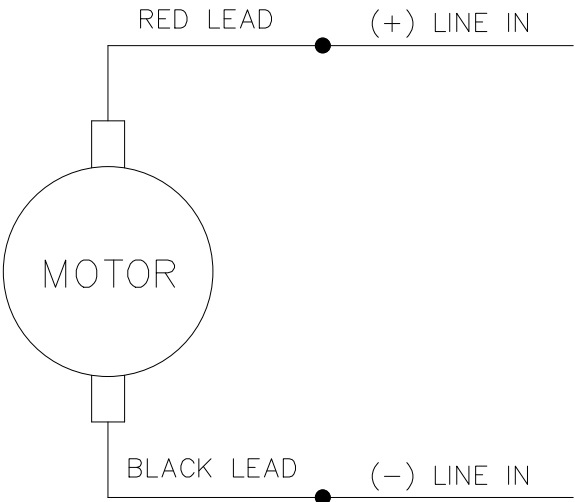
Output HP	1 Hp	Output KW	0.75 kW
Voltage	90 V	Speed	2500 rpm
Service Factor	1.0	Frame	S56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	83.4 %	Ambient Temperature	40 °C
Current	10.0 A	Duty	Continuous
Insulation Class	F	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Rigid C base
Overall Length	13.32 in	Frame Length	5.97 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Torque	25.2 LB-IN		
Outline Drawing	031879-108020	Connection Drawing	00531901

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06	CHANGED .06 & 1.94 DIMS TO REF., ISAAC 12-0984	IPG 1/30/2013		TOLERANCES UNLESS SPECIFIED	 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	RWS 1/8/08	
05	ADDED NOTE ABOUT FAN GUARD LOCATION, ISAAC 09-4813	IPG 12/4/2009	DEC	INCHES		CHK	IPG 1/9/08	
04	CAT. # 108092.00 "C" WAS 17.32, "L" WAS 15.26, "AD" WAS 9.60, ISAAC 09-1828	IPG 5/14/2009	X	±.1		APPR		
03	ADDED DATA FOR VARIOUS CAT. NUMBERS, COMPLETED	IPG 9/15/2008	XX	±.03	TITLE	OUTLINE	SCALE	1:2
	TABLE		XXX	±.005		48 FRAME DC - S56C MOUNT	REF	031189.00
			XXXX	±.0005	MAT'L		FMF	108022.75
NO	REVISION	BY & DATE	CHK	ANG ±1/2"	FINISH		PAGE	OF
	THIRD ANGLE PROJECTION 		RFP	PREV		SIZE	DRAWING NO	REV
				NETWORK FILE NAME	031879	B	031879	00



CONNECTIONS SHOWN FOR CCW ROTATION FACING LEAD END OF THE MOTOR
TO REVERSE ROTATION INTERCHANGE LINE LEADS

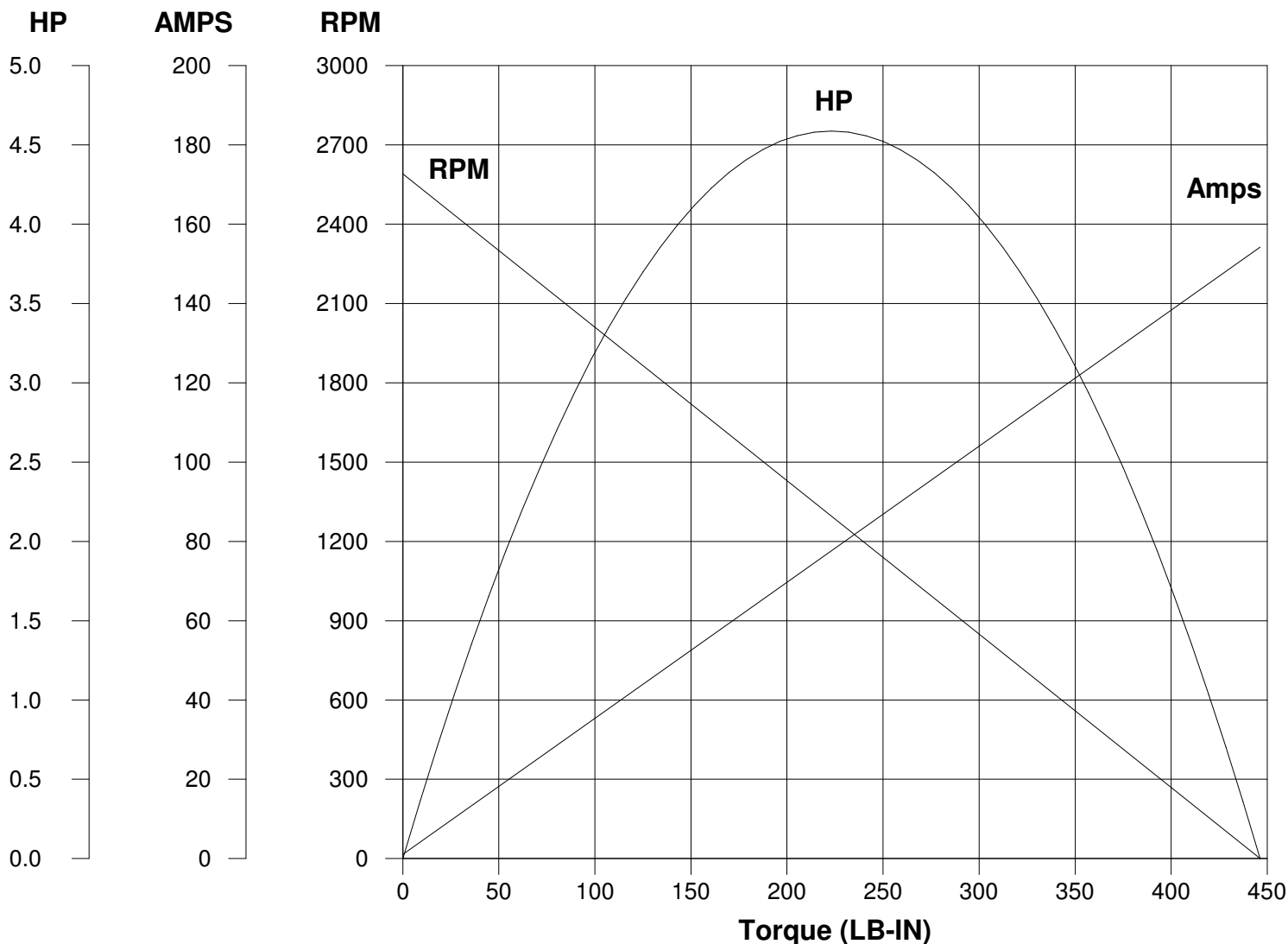
				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN TJF 11/15/97			
				DEC.	INCHES		CHK			
F	CHG FROM LEESON TO RRX TEMPLATE AS PER ECR-0237142	KVDG 09/19/24	DS	.X	±.1		APPD POW 11/15/97			
E	"MOTOR" WAS "ARMATURE", ECO-0163602	IPG 3/14/19		.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM PMD C MOTOR			SCALE 1=2	
D	UPDATED TO MAKE IT GENERIC, ECO-0163547	IPG 3/13/19		.XXX	±.005				REF	
01	REDRAWN ON CAD. REVISED NOTES.	SJB 9/20/2005		.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			RFP		CAD FILE 00531901		SIZE	DRAWING NO.		REV.
			DIST		4 of 5		A	005319.01		F

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE

FOR

DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. C4D28FK5Catalog No. 108020.00HP 1.000RPM 2500DC Volts 90.0N.P. FLA 10.00F.F. 1.38Encl TEFCType DFS.F. 1.00Max. Amb. 40.0 Deg CInsul. FFrame S56CDuty Cont

Ra 0.3400 Ohms
 La 4.900 mHenrys
 Ja 9.600 LB-IN²
 Ke 34.50 V/KRPM

Kt 2.916 LB-IN/AMP
 Imax 103.1 AMPS Allowed
 FL Torque 25.20 LB-IN
 FL EFF 83.40 %

Winding W- D56221-1Prepared by S. BernhardtDate 05-06-2009