

SIEMENS

Ingenuity for life



E.B. Horsman & Son

The Electrical Distributor of Choice!



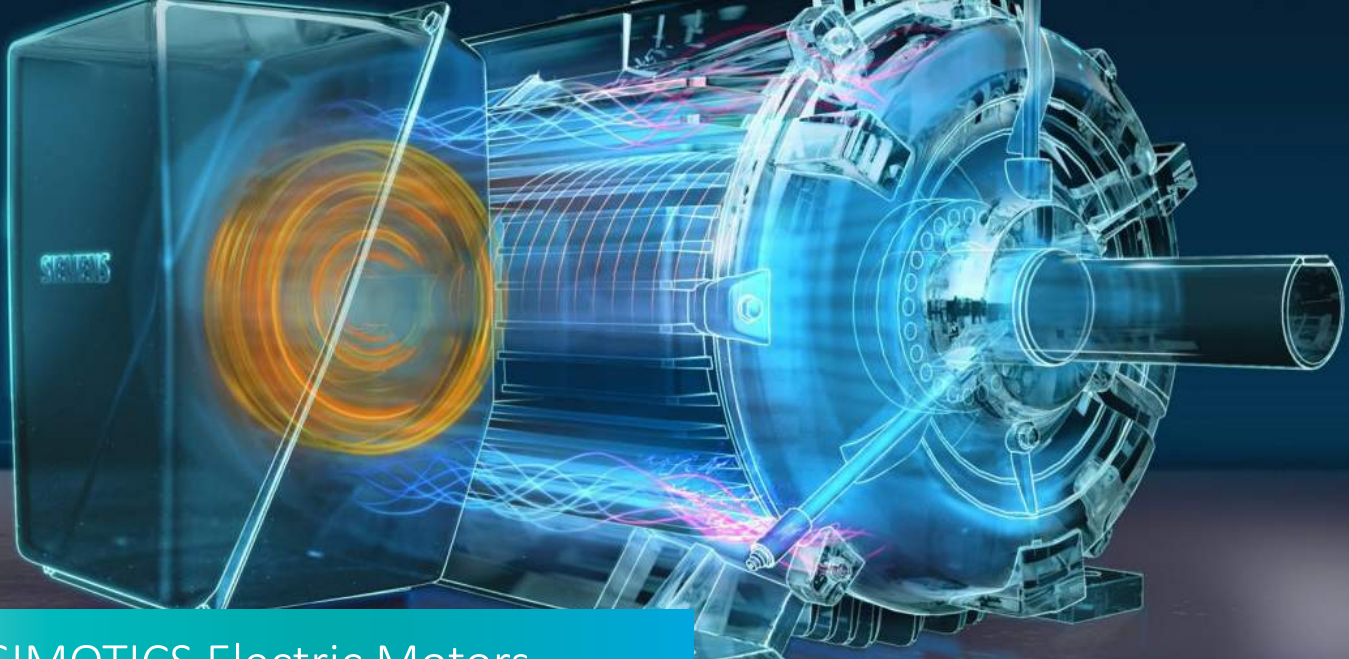
Your Siemens Motion Controls Guide

Siemens VFDs, Servo Drives and Motors designed to work together

Available in stock across Western Canada at your local E.B. Horsman & Son location

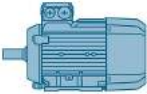
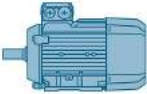
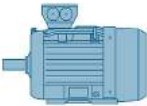
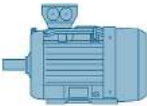
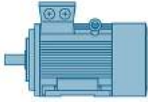
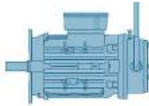
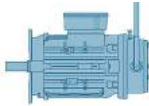


Western Canadian independently owned full line electrical distributor since 1900

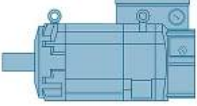

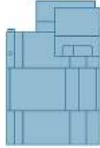
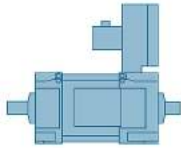


SIMOTICS Electric Motors

LOW-VOLTAGE MOTORS FOR LINE AND CONVERTER OPERATION

General Purpose		Severe Duty		Explosion Protected	Definite Purpose	
SIMOTICS GP100	SIMOTICS GP100A	SIMOTICS SD100	SIMOTICS SD200	SIMOTICS XP	SIMOTICS DP100	SIMOTICS DP200
						
1 - 200 HP	1 - 20 HP	1 - 400 HP	350 - 800 HP	1 - 300 HP	3 - 250 HP	400 - 800 HP

MOTION CONTROL MOTORS

MOTION CONTROL MOTORS				DC MOTORS	
Servo Motors <i>SIMOTICS S</i>		Main Motors <i>SIMOTICS M</i>	Linear Motors <i>SIMOTICS L</i>	Torque Motors <i>SIMOTICS T</i>	<i>SIMOTICS DC</i>
Servo motors	Servo geared motors				
0.05 - 34.2 kW	0.5 - 7 kW	2.8 - 1,340 kW	1.7 - 81.9 kW	1.7 - 380 kW	up to 1,610 kW

Siemens extensive SIMOTICS motor product line

SIMOTICS industrial electric motors provide you with the optimum solution for every application. Backed by 150 years of experience, SIMOTICS motors are unrivaled when it comes to reliability, ruggedness, compactness, efficiency, and performance. SIMOTICS electric motors include:

- Low voltage AC motors for line and converter operation
- Precise motion control motors with highly-dynamic performance for positioning and handling, as well as for use in production machines and machine tools
- DC motors and powerful high-voltage motors for use in ships, rolling mills, ore mills, and large mud pumps and compressors in the oil and gas industry

Variable Frequency Drives

SINAMICS V20

Easy-to-use

Integrated connection and application macros, easy commissioning via parameter loader and web server module



All from a single source

Applications examples with SIMATIC can be downloaded freely from online support portal



Easy-to-save-money

Design and integrated energy-saving functions allow drastically slashed energy consumption



Easy-to-install

Compact design, with variant of unfiltered and filtered version, integrated USS and Modbus RTU



	1AC	3AC
Power Range	0.17 – 4 hp 0.12 – 3 kW	0.5 – 40 hp 0.37 – 30 kW
Degree of protection	IP20	
Voltage range	1 AC 200 V ... 240 V (+ / - 10%)	3 AC 380 V ... 480 V (+10% / - 15%)

SINAMICS G120

G120X ideal for WWTP



SAM WiFi programming module newly released



No software needed



Program, command and monitor from your phone, tablet or PC



G120X available with BACnet protocol



	Description	Voltage Ranges	Power Ranges	Major Communication Protocols
G120X	The specialist for pumps, fans and compressors	200 – 690 V	1 – 700 hp 0.75 – 630 kW	PROFINET PROFIBUS Modbus BACnet
G120	The modular system	200 – 600 V	0.75 – 400 hp 0.55 – 250 kW	PROFINET PROFIBUS Modbus
G120C	The compact converter	380 – 480 V	0.75 – 150 hp 0.55 – 132 kW	PROFINET PROFIBUS Modbus
G120D	The inverter for distributed applications	380 – 480 V	1 – 10 hp 0.75 – 7.5 kW	PROFINET PROFIBUS

G120X



0,75 – 630 kW
The specialist for pumps, fans and compressors

G120



0,55 - 250 kW
The modular system

G120C



0,55 - 18,5 kW
The compact converter

G110D/G120D



0.75 - 7.5 kW
The inverter for distributed applications



Servo Drives Systems

SINAMICS S210



The SINAMICS S210 Servo Drive System is a single axis AC/AC drive with enhanced features, connectivity and performance for motion control applications in the midrange segment.

The new servo drive system comprises the SINAMICS S210 servo drive, the SIMOTICS S-1FK2 servo motor in a compact or high dynamic version and a dedicated "One-Cable-Connection" between motor and drive.

Features	Benefits
<ul style="list-style-type: none"> • Dedicated S-1FK2 motor(HD/CT) • Fast Current Controller (62,5 μs) • Fast PROFINET IRT (250 μs) • 22-Bit Single-& Multiturn Enc. DC-Coupling (for 3-AC units) 	Increase performance
<ul style="list-style-type: none"> • Basic & Extended Safety integrated functions via PROFIsafe 	Fulfill high demands for safety
<ul style="list-style-type: none"> • Integrated Webserver • "One Button Tuning" • TIA Portal (V15.1) integrated**) • TIA Selection Tool integrated 	Easy engineering
<ul style="list-style-type: none"> • One-Cable-Connection (OCC) • Integrated EMC Filter • Integrated Braking Resistor 	Saves time on installation
<ul style="list-style-type: none"> • 1AC 230V (200-240V) 0.05 – 0.75kW • 3AC 400V (200-480V) 0.4 – 7kW*) • UL Certification 	Ready for world wide markets

SINAMICS S120



The modular drive system for applications at the highest level

SINAMICS S120 offers solutions for high-performance single and multi-axis drives

- » Power range: 0.12 kW - 5700 kW
- » Servo /vector control V/f control
- » Integrated safety and positioning functions
- » Additional motion control functions in conjunction with SIMOTION or SINUMERIK
- » High degree of scalability flexibility and combinability
- » Energy efficiency as a result of the energy recovery capability and/or common DC link
- » Communication: PROFIBUS / PROFINET / EtherNet/IP / CANopen / Modbus TCP
- » Advanced Technology Functions for individual - and at the same time - efficient drive solutions (DCC and TEC)
- » SINAMICS web server for efficient diagnostics and maintenance

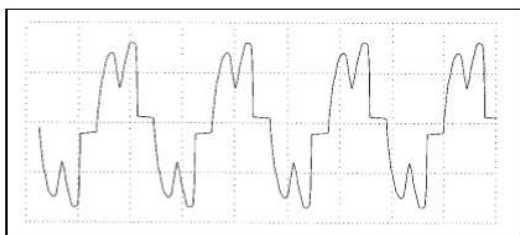


Reactors MTE, TCI & HPS

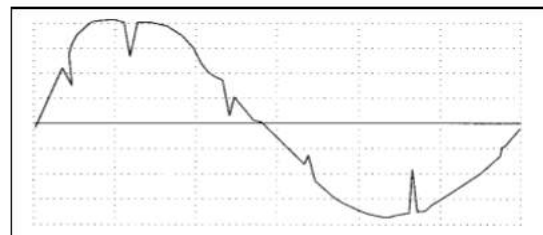
Reactors are designed to address issues associated with variable frequency drives:

- Attenuate voltage and current transients to reduce voltage notching
- Improve True Power Factor
- Mitigate drive nuisance tripping
- Minimize harmonic current
- On output, reduce the motor temperature & audible noise
- Enhance the overall performance, life expectancy, and system efficiency
- Mitigate motor bearing failures

without Reactors



with Reactors



VFD TRAINING OFFERED

Master Siemens Variable Frequency Drive Systems

E.B. Horsman's Process, Automation and Controls (PAC) team is offering hands-on training on Siemens VFD. This course goes beyond basic technical information; drawing on decades of trades supervision, technical management, equipment design, commissioning and production downtime troubleshooting experience allows us to create training material that is laser focused on your needs.

Request your training now by emailing GetPAC@ebhorsman.com



Process Automation Controls

An E.B. Horsman & Son Division

Overcome difficult industrial automation, control, and motion challenges with the help of our specialized team. Our technical expertise, strong supplier partnerships and extensive branch network for logistics, inventory and application support can help take you all the way from specifications and design support to delivery. We have one of the largest teams for automation, controls, & motion amongst full line electrical wholesalers in Western Canada.

- **Specifications and Design Support**
- **Product Selection Recommendations**
- **Quotation**
- **Inventory Support & Supply Management**
- **Delivery Logistics**
- **Training**
- **Post-Sale Technical Support**



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GetPAC@ebhorsman.com

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20 Branches Across Three Provinces

BC LOWER MAINLAND

Burnaby

3935 2nd Avenue
Burnaby, BC V5C 3W9
Tel: 604.292.4800

Langley

#101 - 20550 Duncan Way
Langley, BC V3A 7A3
Tel: 604.533.1275

Richmond

12360 Vickers Way
Richmond, BC V6V 1H9
Tel: 604.273.1981

Surrey

13055 80th Avenue
Surrey, BC V3W 3B1
Tel: 604.596.7111

NORTHERN BC

Dawson Creek

1121 97th Avenue
Dawson Creek, BC V1G 1N5
Tel: 250.782.4896

Prince George

2255 S. Quinn Street
Prince George, BC V2N 2X4
Tel: 250.563.0575

Terrace

5000 Pohle Avenue
Terrace, BC V8G 4S8
Tel: 250.635.6379

Williams Lake

527 S. MacKenzie Avenue
Williams Lake, BC V2G 1C8
Tel: 250.392.7795

BC INTERIOR

Cranbrook

Unit A 800 Industrial Road # 2
Cranbrook, BC V1C 4C9
Tel: 250.489.4591

Kamloops

B - 983 Camosun Crescent
Kamloops, BC V2C 6G1
Tel: 250.374.3191

Penticton

401 Okanagan Avenue
Penticton, BC V2A 3K1
Tel: 250.492.4032

Vernon

5203 24th Street
Vernon, BC V1T 8X7
Tel: 250.545.2191

VANCOUVER ISLAND

Campbell River

1030 B - 9th Avenue
Campbell River, BC V9W 4C2
Tel: 250.287.9265

Courtenay

2615 Moray Place
Courtenay, BC V9N 8A9
Tel: 250.334.0338

Duncan

5286 Polkey Road
Duncan, BC V9L 6W3
Tel: 250.748.3377

Parksville

1023 Herring Gull Way
Parksville, BC V9P 1R2
Tel: 250.v954.1797

Victoria

816 Cloverdale Avenue
Victoria, BC V8X 2S8
Tel: 250.475.1999

ALBERTA

Calgary

Bay 17, 10551 50th Street SE
Calgary, AB T2C 3E3
Tel: 587.620.0020

Edmonton

7223 68th Avenue NW
Edmonton, AB T6B 3T6
Tel: 780.490.7740

SASKATCHEWAN

Saskatoon

134 - 815 66th Street
Saskatoon, SK S7P 0E6
Tel: 306.244.2200