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1000/2000 Series

SPINDLEBLOK® MODULE

120-460 VAC
1-5 Hp/1000 Series
7.5-20 Hp/2000 Series

Features

- Features SensorlesServo™ precision speed and torque control for use with three phase AC induction motors.
- Optimized spindle acceleration and deceleration profiles, linear profiles optional.
- Widest possible constant power range.
- 200% overload torque capability down to 1% of base speed.
- Allows spindle orient moves using open loop control where an external controller closes a position loop based on an external position input.
- Automatic speed fold-back when current limit or the slip limit is reached. The driven motor will not pull out.
- Rapid and accurate torque limits
- Eight Digital Inputs:
  Run Enable, Run Forward, Run Reverse, External Fault, Preset speeds, Run, Reverse, Forward Enable, Reverse Enable, Default / Alternate Speed Regulator or Open Loop
- Two Open Collector, Two Relay Outputs:
  Set High, Set Low, At Speed, Out of Regulation, Run, Reverse, Overload Alert, Over Temperature Alert, Speed Detect Low, Speed Detect High, Torque Detect Low, Torque Detect High, Brake Actuate, Fault_xrst, Control Mode, Serial Control, Fault Code Blink
- Two Analog Outputs:
  Current, Torque, Speed, Vout, DC Link Voltage, Frequency, Set Level, Heat Sink Temperature
- Provision for directly connecting an external braking resistor.

Specifications

Max. Frequency:
- 546 Hz

Min. Speed:
- 1% of base speed, induction motor

Speed Accuracy (0-rated load):
- Typically +/- 0.5% , as % of base speed

Constant Torque Speed Range:
- 100:1

Torque Response:
- Typical 1.5 ms to 90 % of commanded value

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SpindleBlok® Technical Specifications

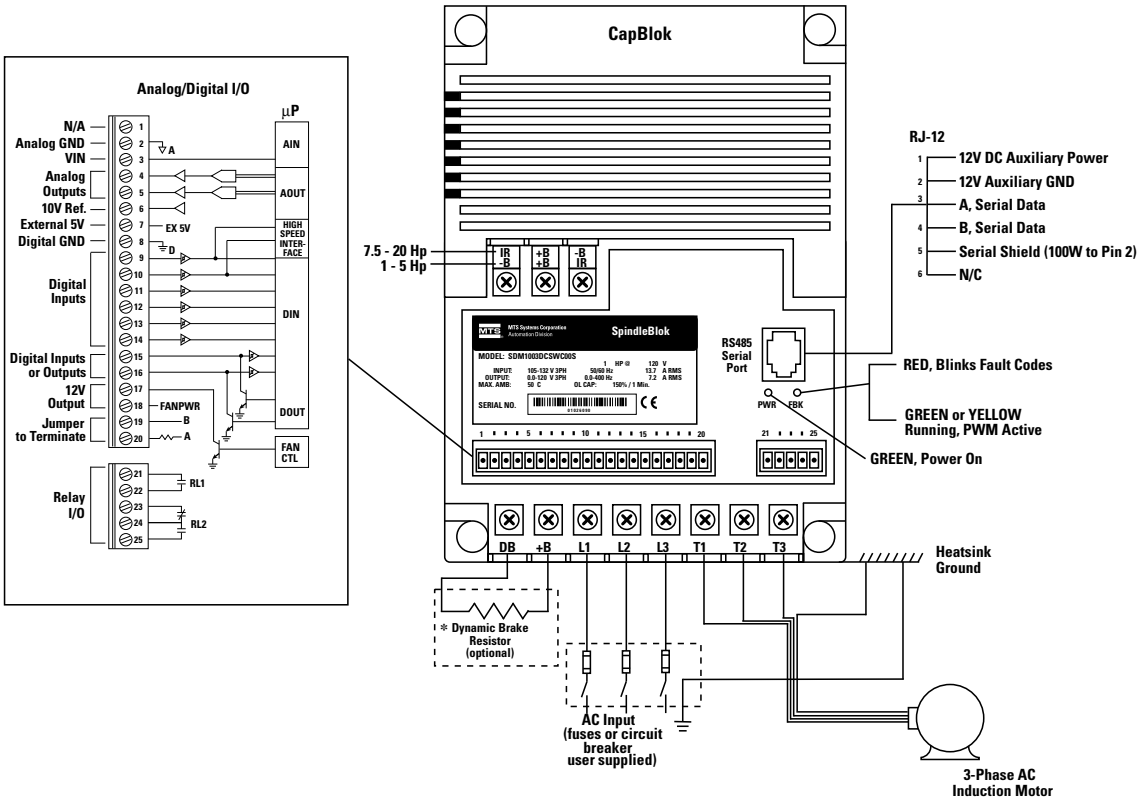
1000 Series

SpindleBlok Module Type Number		1001C	1002C	1003C	1001D	1002D	1003D	1005D	1001E	1002E	1003E	1005E
SDM, AC Induction Motor												
AC Line Input Voltage	VAC	120V±10%			200/240V±10%				380/480V±10%			
Cont. Output Cur. (RMS)	Arms	4.0	7.2	10.4	3.6	6.8	9.6	15.2	1.8	3.4	4.8	7.6
	Hp	0. 5	1.0	1.5	1	2	3	5	1	2	3	5
	kW	0.38	0.75	1.12	0.75	1.5	2.2	3.7	0.75	1.5	2.2	3.7
% Overload 1 min	%	150%	150%	150%	150%	150%	150%	150%	150%	150%	150%	150%
% Overload 3 sec	%	200%	200%	200%	200%	200%	200%	200%	200%	200%	200%	200%

2000 Series

SpindleBlok Module Type Number		2007D	2010D	2007E	2010E	2015E	2020E
SDM, AC Induction Motor							
AC Line Input Voltage	VAC	200/240V±10%		380/480V±10%			
Cont. Output Cur. (RMS)	Arms	22	28	11	14	21	27
	Hp	7.5	10	7.5	10	15	20
	kW	5.6	7.5	5.6	7.5	11	15
% Overload 1 min	%	150%	150%	150%	150%	150%	110%
% Overload 3 sec	%	200%	200%	200%	200%	150%	130%

Connection Diagram



* Consult Dynamic Brake Resistor Data Sheet for standard available sizes.

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