



SMBW 460

>> SERVO IGBT DRIVE

MAIN FEATURES:

- Dual 32 bit DSP design, Embedded Motion controller with servo driver
- Multi functionality: Torque mode, Speed mode, Position mode, Smart Point to Point, Voltage from 240 to 400 Vac selectable
- 100us sampling rate & calculation loop
- 1 Mbit/sec, High speed pulse command input (A/B phase, CW/CCW, CK/DIR)
- 8 pre fixed digital input
- Simulation encoder Output: adjustable
- 4 digital output (S ready, S alarm, Pos complete, Arrester release)
- Analog input 2ch, 16 bit resolution
- RS 232, 9600 – 115000 Kbs – RS 485 MOD BUS
- Position control mode, 16 length position data selectable
- Sinusoidal acceleration and deceleration velocity profile
- Monitor software
- CAN Open option available



**Professional
Power Transmission**

CONNECTORS:

10126-3000PE 26 pins IEEE-488 - 3M
 10136-3000PE 36 pins IEEE-488 - 3M
 D-Sub Female 9 pins (RS232)

PLASTIC COVERS:

10326-52 F0-008 (for 26 pins connector)
 10336-52 F0-008 (for 36 pins connector)
 D-Sub (for DB9 connector)

Output current (Amp)	5/10 A	10 / 20 A Fan cooled
Power Input	Three-Phase 400Vac/240Vac, 50/60Hz	
Power Output	Three-Phase 0 Input power voltage	
Sinusoidal PWM	IGBT Sinusoidal Pulse-Width-Modulation (10Khz)	
Encoder Type	Incremental	
Control mode	Torque, Speed, Position control modes & Embedded motion profiles	
Modes:	P-Command mode	1. Pulse input: A/B phase, CW/CCW or Clock/Direction 500kHz 2. Bit rate: 1M bps 3. Gear ratio: 50000 1/50000
	Position control mode	1. 16 independent position length 2. 16 selectable speed / torque /acc /dec profiles 3. Mixed 4. Metric number system 5. Multi mode home search
	Speed control mode	1. Control range 30000 : 1 2. Preset Speed, by 3-bits DIX 3. 4 torque limit setting, by 2-bits DIX
	Torque control mode	Settable Speed Droop range
Encoder	Simulated output	Fixed frequency
Control power	External vdc	24 volt power supply
Digital input DI(x)	8 standard predefined	photo isolated input
Digital output DO(x)	4 standard predefined	photo isolated output (Servo ready, Servo alarm, Position compete, Arrester release).
Analog input	16 bit resolution	A/D inputs: AI1 & AI2 – 2.5Khz sampling rate
Analog output		Torque / Speed
Communication		RS-232
Environment:	Temperature	0 – 50°C
	Humidity	85% RH
	Vibration	0.5G



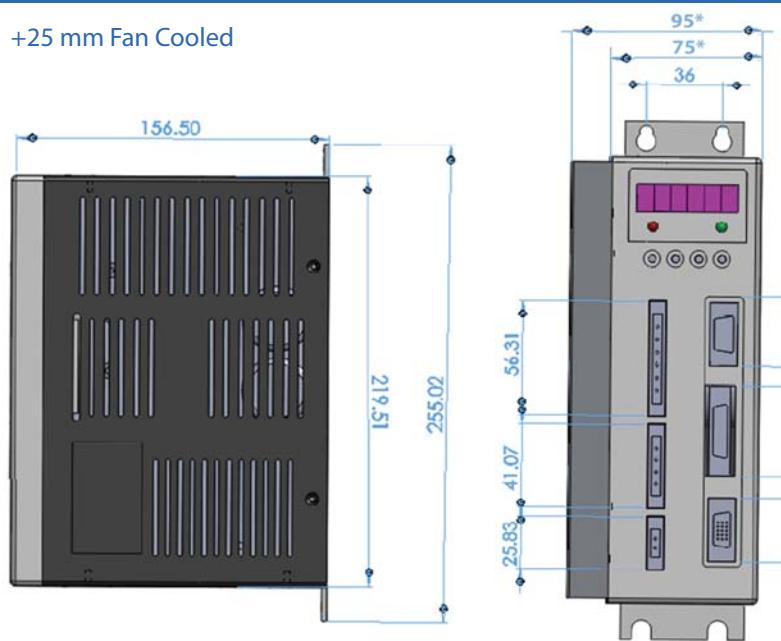
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DIMENSIONS mm

* +25 mm Fan Cooled



SOFTWARE MOTION VIEW

The software interface includes:

- File Selection Dialog:** Shows a list of parameter files (e.g., 110_TMGW.par, 1908KD248.par) and options to save as "Apri" or "Annula".
- Parameter Adjustment Window:** Displays a graph of current vs. time and allows adjustment of Proportion (Kp), Integral (Kij), and Low Pass Filter (Cut-off Freq [Hz]).
- Port State Monitor:** Shows the status of various digital inputs (ServoEn, AlarmCir, CCWDIs, CWDIs, CCWTltd, CWTLtd, CLE/SC1/ZEROSPD, INH/SC2, SignInv, PulsInv) and outputs (SRDY, ALM, COIN, BRK).
- Motor Overload Window:** Allows setting of speed and torque limits for two motors, with a graph showing torque vs. speed.



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