

STANDARD SERVO DRIVE 60A

WER-D048/60-FS04A7-E,-C,-R

(Size :157×110×70mm)



W:731g

Ratings		60
Continuous Output Current A(rms)	60	
Peak Output Current A(rms)	120	
Basic Specifications		
Feature	Specification	
Motors	DC / BLDC / PMSM / VCM	
Current(Torque) Control	Control Periodic	20KHz
	Control Loop	PI + Feed-forward
Velocity & Position Control	Control Periodic	4KHz
	Control Loop	Cascade P/PI + Feed-forward
	Filters	First order low pass filter, Four notch filters, First order adaptive windowing filters
Reference Command	Current / Velocity / Position	
Auto Tuning	Method	
GUI	User Interface	WELSS(WelconServoStudio), Setting, Drive, Motor, Feedback, I/O, Motion
Input Voltage	• Motor Voltage : 12~48VDC(H/W Limit 10~90V) • Control Voltage : 24VDC(H/W Limit 10~90V)	
Protective Functions	Under- and over-voltage, Over-current, Over-load (with I^2T), Drive over-temperature	
Environment	• Ambient temperature : Operation 0~50°C, Storage 0~70°C • Humidity : 10~90% • Vibration : 1.0g	
Compliance Standard	CE, TUV	
Communication*		
Feature	Specification	
USB	• Baud rate : up to 3Mbps • Maximum cable length : 3m	
CAN*	Bit rate : 125kbps~1Mbps	
EtherCAT*	100Mbps, Communication cycle time : up to 250μs	
RS-485*	Baud rate : 9200bps~3Mbps	
I/O		
Feature	Specification	
Analog Input	Quantity	2
	Voltage Range	±10 VDC differential, Motor Temperature
	Input Resolution	14 bit
Digital Inputs	Quantity	6 + 2 STO (H/W)
	Signal	Configurable. Opto-isolated.
	Voltage	24V
Digital Outputs	Quantity	2 + 1 STO (H/W)
	Signal	Configurable. Opto-isolated.
	Voltage	24V
	Max. Output Current	40mA
Brake	Use one of digital outputs (40mA)	
Motor Feedback		
Feature	Specification	
General	Supply Voltage	5VDC
Incremental Encoder	Signal	CH1 : A-quad-B with or without index, RS422, Differential CH2 : A-quad-B with or without index, Single-ended
	A-quad-B Max Input Frequency	10MHz (before quadrature)
Digital Hall Sensor	Signal	Single-ended
	Type	Separated hall sensor
Analog Hall Sensor	Signal	Not supported
	Sampling Frequency	Not supported
Sin/Cos Encoder	Signal	Not supported
	Sampling Frequency	Not supported
Serial Encoder	Type	SSI, BiSS-C, Tamagawa, Panasonic, EnDat2.x
	Bite rate	0.5Mbps, 1Mbps, 2Mbps, 2.5Mbps, 5Mbps

*Optional