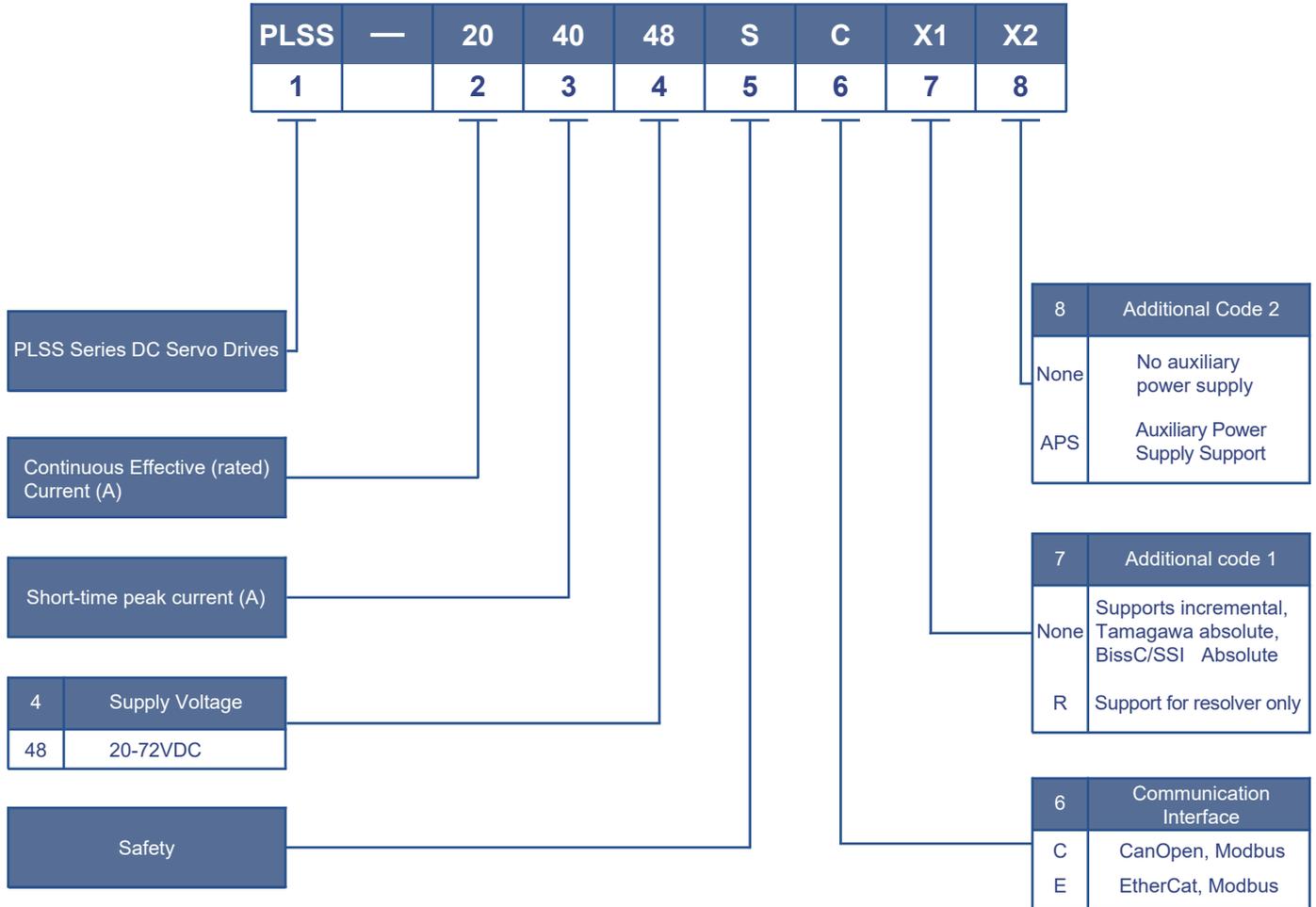


## PLSS Series Safe DC Servo Drives

- ISO13849-1 safety certified, safety level: PLD, STO & SBC supported
- Can be used to drive low-voltage permanent magnet synchronous motors, DC brushless motors, DC brushed motors
- Support Modbus/CanOpen/EtherCat
- Supports incremental encoders, SSI/BISSB/BISSC absolute encoders, NRZ Tamagawa absolute encoders, Hall signal position, resolvers
- Peak current 300A



## ■ PLSS Series Safe DC Servo Drives Model Definition



## Electrical Characteristics of PLSS Series Safe Low Voltage Servo Drives

Range		PLSS-2040	PLSS-3060	PLSS-4080	PLSS-100200	PLSS-150300
Input Voltage Range		20-72VDC	20-72VDC	20-72VDC	20-72VDC	20-72VDC
Maximum continuous output current (A)		20	30	30	100	40
Maximum output current (A)		40	60	60	200	80
PWM Frequency		10KHz				
Supported Motors		Permanent Magnet Synchronous Motor (PMSM), Brushless DC Motor (BLDC), Brushed DC Motor				
Input and output	Analog Input	2 analog inputs, -10V-+10V				
	Digital Input	8 digital inputs, 12-30VDC				
	Digital Output	4 digital outputs, open collector outputs				
Bus Function	Modbus	RS485 interface, standard Modbus protocol				
	CanOpen	Standard CanOpen protocol, CiA301/402				
	EtherCAT	Standard CoE protocol				
Encoder Interface		Incremental Encoders, SSI/BISSB/BISSC Absolute Encoders, NRZ Tamagawa Absolute Encoders, Hall signal position feedback, rotary Transformers				
Control Characteristics	Control Method	Speed control (PV), torque control (PT), position control (PP), IP, CSP, CSV, CST				
	SBC&STO	Certified for functional safety, safety standard: ISO 13849-1, safety level: PLD				
Matrix	Location	Indoors, out of direct sunlight, free of dust, corrosive gases, flammable gases, oil mist, water vapor, etc.				
	Ambient Temperature	-20°C to 50°C, derated for 40°C above				
	Altitude	The altitude of the place of use is less than 1000m, and above 1000m, it is used at a reduced level.				
	Humidity Level	Below 95% RH, no water condensation				
	Vibratory	Less than 0.5G (4.9m/s <sup>2</sup> ), less than 10Hz				
	Storage Temperature	-40°C-70°C				
	Cooling method	Natural cooling				
Weight (kg)		0.6	0.7	0.8	1.95	2.75

## ■ PLSS Series Safe Low Voltage Servo Drives Selection List (CANOpen)

Drive Ordering Number	Input Voltage	Rated Current (A)	Peak Current (A)	Encoder Support	Control Mode	Safety Function (SBC&STO)	Operating Temperature
PLSS-204048-CS	20-72VDC	20	40	Incremental Encoder Single Hall Signal SSI/SSB/BISSC protocol absolute value	Analog Pulse Modbus CanOpen	Functional safety certified Safety standard: ISO13849-1 Security level: PL D  Certification Body: SGS	-40°-50°
PLSS-306048-CS	20-72VDC	30	60				
PLSS-408048-CS	20-72VDC	40	80				
PLSS-10020048-CS	20-72VDC	100	200				
PLSS-15030048-CS	20-72VDC	150	300	NRZ Tamagawa Protocol Absolute			

## ■ PLSS Series Safe Low Voltage Servo Drives Selection Chart (EtherCat)

Drive Ordering Number	Input Voltage	Rated Current (A)	Peak Current (A)	Encoder Support	Control Mode	Safety Function (SBC&STO)	Operating Temperature
PLSS-204048-ES	20-72VDC	20	40	Incremental Encoder Single Hall Signal SSI/SSB/BISSC protocol absolute value	Analog Pulse Modbus EtherCat	Functional safety certified Safety standard: ISO13849-1 Security level: PL D  Certification Body: SGS	-40°-50°
PLSS-306048-ES	20-72VDC	30	60				
PLSS-408048-ES	20-72VDC	40	80				
PLSS-10020048-ES	20-72VDC	100	200				
PLSS-15030048-ES	20-72VDC	150	300	NRZ Tamagawa Protocol Absolute			

## ■ PLSS Series Safe Low Voltage Servo Drives Selection Chart (CANOpen & Rotation)

Drive Ordering Number	Input Voltage	Rated Current (A)	Peak Current (A)	Encoder Support	Control Mode	Safety Function (SBC&STO)	Operating Temperature
PLSS-204048-CRS	20-72VDC	20	40	Rotary Transformer	Analog Pulse Modbus CanOpen	Functional safety certified Safety standard: ISO13849-1 Security level: PL D  Certification Body: SGS	-40°-50°
PLSS-306048-CRS	20-72VDC	30	60				
PLSS-408048-CRS	20-72VDC	40	80				
PLSS-10020048-CRS	20-72VDC	100	200				
PLSS-15030048-CRS	20-72VDC	150	300				

## ■ PLSS Series Safe Low Voltage Servo Drives Selection Chart (EtherCat & Rotation)

Drive Ordering Number	Input Voltage	Rated Current (A)	Peak Current (A)	Encoder Support	Control Mode	Safety Function (SBC&STO)	Operating Temperature
PLSS-204048-ERS	20-72VDC	20	40	Rotary Transformer	Analog Pulse Modbus EtherCat	Functional safety certified Safety standard: ISO13849-1 Security level: PL D  Certification Body: SGS	-40°-50°
PLSS-306048-ERS	20-72VDC	30	60				
PLSS-408048-ERS	20-72VDC	40	80				
PLSS-10020048-ERS	20-72VDC	100	200				
PLSS-15030048-ERS	20-72VDC	150	300				