

smartServo - speedy, slim, smart

Single-phase servo drive with Bluetooth

- › **Highest performance and dynamics** internal sampling time < 32 µs
- › **USB and Ethernet** as parameterisation interfaces
- › **Fieldbus on board** EtherCAT, PROFINET, CANopen
- › **Universal encoder evaluation** HIPERFACE®, HIPERFACE DSL®, EnDat 2.2, resolver, analogue and digital incremental encoders, BISS
- › **Bluetooth integrated** Query of the servo drive status via smartphone or tablet PC

› Technical data

Features	BL 4102-C	BL 4104-C
Voltage supply	1 x 75...230 VAC [$\pm 10\%$], 50...60 Hz	
Control voltage	24 VDC [$\pm 20\%$] (0,35 A) ^{**1)}	
DC link voltage	325 VDC (with $U_{\text{mains}} = 230$ VAC)	
Output power	400 W	800 W
Max. output power for 2 s	1 kW	2 kW
Rated output current	2 A _{rms}	4 A _{rms}
Max. output current for 2 s	6 A _{rms}	12 A _{rms}
Internal brake resistor	75 Ω	
Continuous power / pulse power	8 W / 2 kW	
External brake resistor	75 Ω, max. 2 kW	
Holding brake	24 VDC, max. 2 A	
Dimensions servo drive H x W x D	200 x 50 x 163 mm 245 x 50 x 163 mm with mounting plate	
Weight	1,5 kg	
Encoder evaluation	EnDat 2.2, HIPERFACE®, HIPERFACE DSL®, resolver, analogue and digital incremental encoders with/without commutation signals, BISS (Type C)	
Interfaces	USB 2.0, Ethernet, CAN-Bus, EtherCAT, PROFINET, MicroSD card	
Inputs/outputs	8 x digital in (24 VDC), 2 x analogue in (± 10 V) 3 x digital out (24 VDC)	

^{**1)} plus the current consumption of a holding brake and I/Os (if included)



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Three-phase servo drive with Bluetooth

- › **Highest performance and dynamics** internal sampling time < 32 µs
- › **USB and Ethernet** as parameterisation interfaces
- › **Fieldbus on board** EtherCAT, PROFINET, CANopen
- › **Universal encoder evaluation** HIPERFACE®, HIPERFACE DSL®, EnDat 2.2, resolver, analogue and digital incremental encoders, BISS
- › **Bluetooth integrated** Query of the servo drive status via smartphone or tablet PC

Technical data

Features	BL 4304-C	BL 4308-C	BL 4312-C
Voltage supply	3 x 230... 480 VAC [± 10 %], 45 ... 66 Hz		
Control voltage	24 VDC [± 20 %] (0,35 A) ^{**1)}	24 VDC [± 20 %] (0,45 A) ^{**1)}	24 VDC [± 20 %] (0,65 A) ^{**1)}
DC link voltage	565 VDC (with U _{mains} = 400 VAC)		
Output power	1,6 kW	3,2 kW	4,8 kW
Max. output power for 2 s	4,8 kW	9,6 kW	12 kW
Rated output current	4 A _{rms}	8 A _{rms}	12 A _{rms}
Max. output current for 2 s	12 A _{rms}	24 A _{rms}	30 A _{rms}
Internal brake resistor	30 Ω		
Continuous power / pulse power	50 W / 24 kW		
External brake resistor	≥ 30 Ω		
Holding brake	24 VDC, max. 2 A		
Dimensions servo drive H x W x D	230 x 67 x 200 mm 275 x 67 x 200 mm with mounting plate		
Weight	2,9 kg		
Encoder evaluation	EnDat 2.2, HIPERFACE®, HIPERFACE DSL®, resolver, analogue and digital incremental encoders with/without commutation signals, BISS (Type C)		
Interfaces	USB 2.0, Ethernet, CAN-Bus, EtherCAT, PROFINET, MicroSD card		
Inputs/outputs	8 x digital in (24 VDC), 2 x analogue in (±10 V) 3 x digital out (24 VDC)		

^{**1)} plus the current consumption of a holding brake and I/Os (if included)

