

smartServo - speedy, slim, smart

Single-phase servo drive

- **Highest performance and dynamics** internal sampling time < 32 µs
- **USB and Ethernet** as parameterisation interfaces
- **Fieldbus on board** EtherCAT, PROFINET, CANopen, Ethernet Powerlink
- **Universal encoder evaluation** HIPERFACE®, HIPERFACE DSL®, EnDat 2.2, resolver, analogue and digital incremental encoders, BISS

➤ Technical data

Features	BL 4102-C	BL 4104-C	BL 4108-C
Voltage supply	1 x 75...230 VAC [$\pm 10\%$], 50...60 Hz		
Control voltage	24 VDC [$\pm 20\%$] (0,35 A) ^{*)}		
DC link voltage	325 VDC (with $U_{\text{mains}} = 230 \text{ VAC}$)		
Output power	400 W	800 W	1600 W
Max. output power for 2 s	1 kW	2 kW	4,8 kW
Rated output current	2 A _{rms}	4 A _{rms}	8 A _{rms}
Max. output current for 2 s	6 A _{rms}	12 A _{rms}	24 A _{rms}
Internal brake resistor	75 Ω		30 Ω
Continuous power / pulse power	8 W / 2 kW		50 W / 6,4 kW
External brake resistor	75 Ω, max. 2 kW		≥ 30 Ω
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		230 x 67 x 200 275 x 67 x 200 with mounting plate
Weight	1,5 kg		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, Ethernet Powerlink		
Inputs/outputs	8 x digital in (24 VDC), 2 x analogue in (± 10 V) 3 x digital out (24 VDC)		

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



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Three-phase servo drive

- **Highest performance and dynamics** internal sampling time < 32 µs
- **USB and Ethernet** as parameterisation interfaces
- **Fieldbus on board** EtherCAT, PROFINET, CANopen, Ethernet Powerlink
- **Universal encoder evaluation** HIPERFACE®, HIPERFACE DSL®, EnDat 2.2, resolver, analogue and digital incremental encoders, BISS

➤ Technical data

Features	BL 4304-C	BL 4308-C	BL 4312-C	BL 4320-C	BL 4340-C	BL 4360W-C
Voltage supply	3 x 230...480 VAC [$\pm 10\%$], 45 ... 66 Hz					
Control voltage	24 VDC [$\pm 20\%$] (0,35 A) ^{*1)}	24 VDC [$\pm 20\%$] (0,45 A) ^{*1)}	24 VDC [$\pm 20\%$] (0,65 A) ^{*1)}	24 VDC [$\pm 20\%$] (max. 1A) ^{*1)}		
DC link voltage	565 VDC (bei $U_{\text{mains}} = 400$ VAC)					
Output power	1,6 kW	3,2 kW	4,8 kW	8 kW	16 kW	18 kW
Max. output power for 2 s	4,8 kW	9,6 kW	12 kW	20 kW	40 kW	45 kW
Rated output current	4 A _{rms}	8 A _{rms}	12 A _{rms}	20 A _{rms}	40 A _{rms}	60 A _{rms}
Max. output current for 2 s	12 A _{rms}	24 A _{rms}	30 A _{rms}	50 A _{rms}	100 A _{rms}	150 A _{rms}
Internal brake resistor	30 Ω				15 Ω	
Continuous power / pulse power	50 W / 24 kW			80 W / 18 kW	160 W / 36 kW	
External brake resistor	≥ 30 Ω			15 Ω ≤ R _{Extern} ≤ 50 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		351 x 90,5 x 256,5 390 x 93 x 263 with mounting plate	351 x 162,5 x 256,5 390 x 165 x 263 with mounting plate	351 x 161 x 180 390 x 163 x 186 with mounting plate	
Weight	2,9 kg		8 kg	13,5 kg	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, Ethernet Powerlink					
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)

