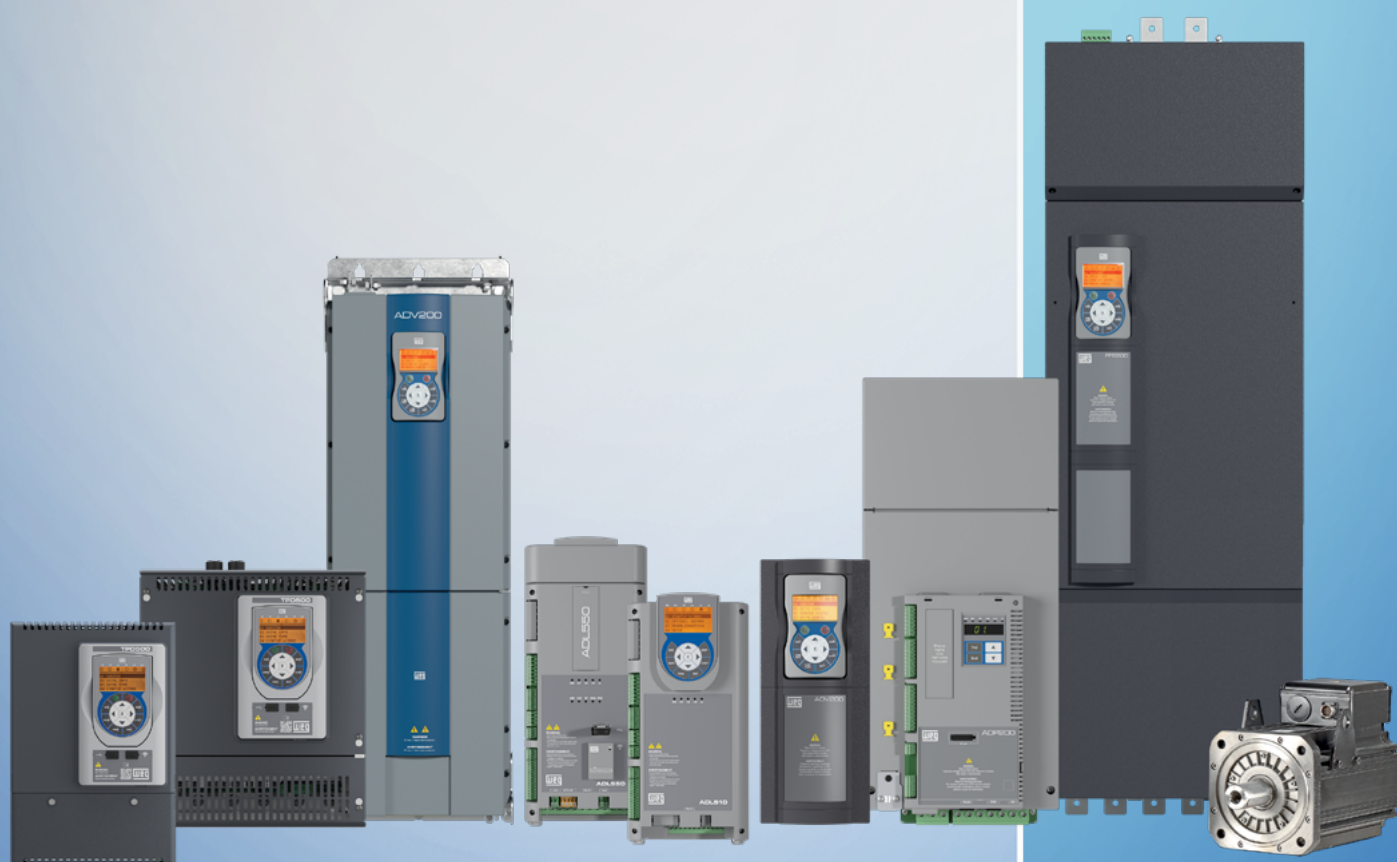


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Digital and Systems
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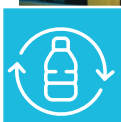
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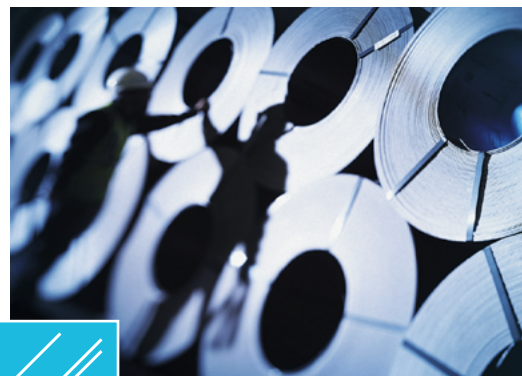




Applications



Plastic



Metal



Pulp and Paper



Textile



Water treatment



Solar-powered pumping system



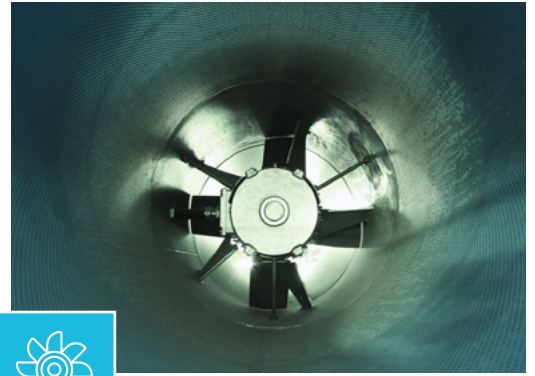
Pumping station



Elevators



Conveyors



HVAC



Mining



Hoist & Crane system



Test benches



Amusement equipment



Industrial hoisting



Cableway

Selection guide by recommended application

	Inverters				
					
	ADV200	ADV200-HC	ADV200-LC	ADV200-SP ^[1] ADV200-WA ^[2]	ADP200
Plastic	•		•		•
Metal	•				
Pulp and Paper	•			• ^[2]	
Textile	•				
Water treatment				• ^[1-2]	
Solar-powered pumping systems				• ^[1]	
Pumping station				• ^[2]	
Elevators					
Conveyors	•				
HVAC				• ^[2]	
Mining	•		•		
Hoist & Crane System		•			
Test benches	•				
Amusement equipment	•				
Industrial hoisting	•	•			
Cableway	•				



NOTES

WEG reserves the right to make changes and variations to products, data, dimensions at any time without the obligation of prior notice.
The data indicated are provided for the sole purpose of describing the product and must not be considered as legally binding characteristics.

Regenerative power supply units		AC/DC Power supplies	Inverters for Lifts			DC drive
						
AFE200	FFE200	SMB200 - SM32	ADL500	ADL300	VDL200	TPD500
•	•	•				•
•	•	•				•
•	•	•				
•	•	•				
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•	•					•
•	•	•				•
						•



Inverters

Model	ADV200	ADV200-HC	ADV200-LC
			
Control mode	Field oriented control	Field oriented control	Field oriented control
Power	0.75 kW ... 1.65 MW [1 ... 2,213 HP] (-4 models) 160 kW...1.65 MW [214 ... 2,213 HP] (-6 models)	0.75 kW ... 55 kW [1 ... 73 HP]	30kW ... 1.2 MW [40...1,000 HP]
Voltage	3 x 380 ... 480 Vac, 50/60 Hz (-4 models) 3 x 500 ... 690 Vac, 50/60 Hz (-6 models) 450 ... 750 Vdc (-DC-4 models) 600 ... 1,120 Vdc (-DC -6 models)	3 x 380 ... 480 Vac, 50/60 Hz (-4 models)	3 x 380 ... 480 Vac, 50/60 Hz
Motor type	Asynchronous / Synchronous	Asynchronous / Synchronous	Asynchronous / Synchronous
Speed control (accuracy)	±0.01% motor rated speed ^[1]	±0.01% motor rated speed ^[1]	±0.01% motor rated speed ^[1]
Analog inputs	2 (voltage / current)	2 (voltage / current)	2 (voltage / current)
Analog outputs	2 (1 voltage or current, 1 voltage)	2 (1 voltage or current, 1 voltage)	2 (1 voltage or current, 1 voltage)
Digital inputs	6 (PNP / NPN)	6 (PNP / NPN)	6 (PNP / NPN)
Digital outputs	4 (PNP / NPN), (2 static and 2 relay)	4 (PNP / NPN), (2 static and 2 relay)	4 (PNP / NPN), (2 static and 2 relay)
Overload	Heavy duty: Asynchronous = 150% x In (1' every 5'), 180% x In (for 0.5 sec) Synchronous = 160% x In (1' every 5'), 200% x In (for 3") Light duty: Asynchronous and synchronous = 110% x In (1' every 5') ^[3]	Heavy duty: Asynchronous = 150% x In (1' every 5'), 180% x In (for 0.5 sec) Synchronous = 160% x In (1' every 5'), 200% x In (for 3") Light duty: Asynchronous and synchronous = 110% x In (1' every 5') ^[3]	Heavy duty: Asynchronous = 150% x In (1' each 5'), 180% x In (for 0.5") Synchronous = 160% x In (1' each 5'), 200% x In (for 3") Light duty: Asynchronous and synchronous = 110% x In (1' each 5') ^[3]
Max output frequency	500 Hz (depending on drive size)	500 Hz (depending on drive size)	500 Hz (depending on drive size)
EMI filter	Integrated	Integrated	Integrated
Choke	Integrated choke DC side (up to 132 kW)	Integrated DC side	Integrated choke DC side (up to 200 kW)
Braking unit	- Integrated (up to 55 kW) - Optional external (≥75 kW)	Integrated	- Integrated (up to 90 kW) - Optional external (≥110 kW)
Options for integration onboard drive	3	3	3
PLC	Yes (motion drive programmable logic controller, standard IEC 61131-3, 5 languages)	Yes (motion drive programmable logic controller, standard IEC 61131-3, 5 languages)	Yes (motion drive programmable logic controller, standard IEC 61131-3, 5 languages)
STO Safety card (SIL3, PL _e)	Yes (models ADV200-...-SI)	Yes (models ADV200-...-SI)	Yes (models ADV200-LC-...-SI)
Functions	- Self-tuning of speed-current-flux regulators and identification of motor data with motor idle or rotating - Torque control - Quick startup menu - Instant overload up to 180% - Dual rating overload - I²T thermal protection for motor, drive and braking resistor 16 programmable multispeeds and 4 multiramp settings (linear, jerk, independent and S-shape) - Motor potentiometer function - Motor auto-capture function - Droop function - Dual motor management - PID function (application pre-loaded) - Mains loss detection with: controlled stop and/or power optimisation - Variable switching frequency - AC braking - Speed feedback from encoder / resolver through option hardware	- Full management of the mechanical brake - Torque proving - Joystick input - Multispeed - Overtravel - Hoist speed up - Low speed zone - Anti-sway - Anti-impact - Wide range of encoder and communication cards - Option "Active Front End" available	- Dissipation with liquid, water, or oil via an innovative cooling system - Excellent corrosion protection with aluminum cooling pipes and internal separation of electronics and cooling liquid - Revolutionary drive mounting system: inside electrical panel and with external heat-sink - Integrated temperature control function to manage the external electrovalve of the coolant circuit - Integrated humidity sensor with programmable anti condensation function
Communication protocols	RS485 ^[2] , Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, EtherNet/IP, PROFINET	RS485, Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, EtherNet/IP, PROFINET	RS485 ^[2] , Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, EtherNet/IP, PROFINET
Protection degree	IP20 (IP00 size 7 and parallel)	IP20 (IP00 size 7 and parallel)	IP00/IP54 (-E54 = version with mounting rear panel heat sink with IP54 protection rating)
Marks	 	 	 

Model	ADV200-SP	ADV200-WA	ADP200
			
Control mode	Field oriented control	Field oriented control	Vector control with feedback
Power	1.5 kW ... 1.8 MW	1.5 kW ... 1.8 MW [2 ... 2,400 HP] (WA-4) 200 kW...1.8 MW [268 ... 2,400 HP] (WA-6) 22 kW...1.8 MW [30 ... 2,400 HP] (WA-DC)	7.5 ... 75 kW [10...100 HP]
Voltage	- AC: 3 x 380...480 Vac, 50/60 Hz - DC (from photovoltaic panels): 330 ... 800 Vdc	3 x 380 ... 480 Vac, 50/60 Hz (-4 models) 3 x 500 ... 690 Vac, 50/60 Hz (-6 models) 450 ... 750 Vdc (-DC-4 models) 600 ... 1,120 Vdc (-DC-6 models)	3 x 230-400-480 Vac, 50/60 Hz
Motor type	Asynchronous	Asynchronous	Synchronous
Speed control (accuracy)	±0.01% motor rated speed ^[1]	±30% motor slip rating (V/f control)	±0.01% motor rated speed control range: 1:1500
Analog inputs	2 two-pole (voltage / current)	2 two-pole (voltage / current)	3 AI: voltage / current + motor protection
Analog outputs	2 two-pole (1 voltage or current, 1 voltage)	2 two-pole (1 voltage or current, 1 voltage)	1 (voltage / current)
Digital inputs	6 (PNP / NPN)	6 (PNP / NPN)	6 + Enable
Digital outputs	4 (PNP / NPN), (2 static and 2 relay)	4 (PNP / NPN), (2 static and 2 relay)	2 + 2 Relay
Overload	Heavy duty: Asynchronous = 150% x In (1' each 5'), 180% x In (for 0.5") Light duty: Asynchronous= 110% x In (1' each 5') ^[3]	Heavy duty: 150% x In (1' every 5'), 180% x In (0.5" every 5') Light duty: 110% x In (1' every 5') ^[3]	170% x In (for 60"), 200% x In (for 3")
Max output frequency	500 Hz (depending on drive size)	500 Hz (depending on drive size)	300 Hz
EMI filter	Optional external	Integrated	Integrated on -F models
Choke	Integrated choke DC side (up to 160 kW)	Integrated DC side (up to 160 kW)	DC side choke: integrated in sizes 30...75 kW AC side choke: external optional (sizes 7.5...22 kW and 5S550/5S750 models)
Braking unit	- Integrated (up to 30 kW) - Optional external (≥37 kW)	- Integrated (up to 75 kW) - External optional (≥90 kW)	Integrated (except ADP200-5750 model)
Options for integration onboard drive	3	3	2
PLC	Yes (motion drive programmable logic controller, standard IEC 61131-3, 5 languages)	Yes (motion drive programmable logic controller, standard IEC 61131-3, 5 languages)	Yes (motion drive programmable logic controller, standard IEC 61131-3, 5 languages)
Safety card	No	Yes (models ADV200-...-SI)	No
Functions	- Integrated MPPT control and optimisation - Dual source control - Double PID - Specific functions for pump control - Optional blocking diode - DC side	- Direct acquisition by Pt-100, Pt-1000, NI1000 temperature sensors (with EXP-IO-SEN-...-ADV cards) - Cascade control of up to 4 pumps, plus the master device (with EXP-IO-D5R8-ADV card) 4 integrated timers with real time clock - Fire and bypass mode - Two independent PID controllers with autotuning - Variable and constant torque operation - Engineering units programming	- Self-tuning rotational and stand still of speed-current-flux regulators and motor data identification - Torque control - Simplified START-UP menu - Motor, drive and braking resistor I²t thermal protection - Multispeed function (16 programmable preset) 4 independent programmable multi-ramp with jerks - Variable switching frequency - Motor temperature monitoring - PID function block for injection molding machine application - Flow and pressure limit control - Pressure sensor status control - Adaptive feedforward - Automatic switchover between closed-loop speed and pressure control - Speed and pressure control loops tuning - Pump rotation direction identification - Multipump convergent and divergent control - Motor protection through KTy, PTC or klixon
Communication protocols	RS485 ^[2] , Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, EtherNet/IP, PROFINET	RS485 ^[2] , Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, EtherNet/IP, PROFINET	RS485 ^[2] , Modbus-RTU, CANopen® (-C models)
Protection degree	IP20 (IP00 size 7 and parallel) (version with externally installed heatsink and turnkey cabinet solution available upon request)	IP20 (IP00 size 7 and parallel)	IP20
Certification	 	 	  (UL 508C)

NOTES

[1] For standard 4-pole motors.

[2] The serial port is used for programming (PC) and control (Modbus communication standard in all drives).

[3] For ADV200-...-4 and ADV200-...-DC models. For ADV200-...-6 models see the ADV200 catalogue.

[4] Complies with the EC Directive concerning low voltage equipment (Directives LVD 2014/35/EU, EMC 2014/30/EU, RoHS 2011/65/EU).

Regenerative power supply units

Model	AFE200	FFE200
		
Control mode	Active front end technology	Fundamental front end technology
Power	11 kW ... 1.65 MW (-4 models) 160 kW ... 1.65 MW (-6 models)	300 kW ... 2.1 MW (-4 models) 475 kW ... 3.3 MW (-6 models)
Voltage	3 x 380 Vac -15% ... 480 Vac, 50/60 Hz (-4 models) 3 x 500 Vac -10% ... 690 Vac, 50/60 Hz (-6 models)	3 x 380 Vac -15% ... 480 Vac, 50/60 Hz (-4 models) 3 x 500 Vac -10% ... 690 Vac, 50/60 Hz (-6 models)
Power factor	≥0.99	<0.94
THD	≤3% (considering AC Mains THD Voltage <2%)	<45%
Analog inputs	2 two-pole (voltage / current)	2 two-pole (voltage / current)
Analog outputs	2 two-pole (1 voltage or current, 1 voltage)	2 two-pole (1 voltage or current, 1 voltage)
Digital inputs	6 (PNP/NPN)	6 (PNP/NPN)
Digital outputs	4 (PNP/NPN), (2 static and 2 relay)	4 (PNP/NPN), (2 static and 2 relay)
Overload	Heavy duty: 150% * In (60" every 300", 180% 0.5") Light duty: 110% * In (60" every 300")	Heavy duty: 150% x In (60" every 300", 180% 0.5") Light duty: 110% x In (60" every 300")
EMI and LCL filters	External LCL filter mandatory	Optional external EMI mains filter (line inductance mandatory)
Options for integration onboard drive	3	3
Pre-charge kit	External mandatory The dedicated AFE PRE-CHARGE KITS are supplied complete with pre-wired fuses, resistors and contactors.	Mandatory In the FFE200-...+ PRC the precharge circuit is integrated
Functions	• "Clean Power" thanks to the unit power factor and reduced harmonic distortion (<3%) • Enhanced system dynamics during drive and regeneration • Considerable energy savings during regeneration transients • Improved stability of the DC Bus circuit under load changes • Significant cost-effectiveness with the single power supply system • Elimination of uneconomical conventional braking systems and braking resistors	• Efficiency enhancement of the internal power module • Limited internal dissipative losses • Enhanced system dynamics during drive and regeneration • Considerable energy savings during regeneration transients • Improved stability of the DC Bus circuit under load changes • Significant cost-effectiveness with the single power supply system • Elimination of uneconomical conventional braking systems and braking resistors.
Communication protocols	RS485, Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, ETHERNET IP, PROFINET	RS485, Modbus-RTU Optional: Modbus-RTU to Modbus-TCP gateway, DeviceNet, PROFIBUS-DP, CANopen, EtherCAT, ETHERNET IP, PROFINET
Protection degree	IP20 (IP00 size 7 and parallel)	IP00
Marks	                     	

AC/DC power supplies

Model	SBM200	SM32
		
Type	3-phase AC/DC power supply	3-phase AC/DC power supply
Continuous output power	490 kW ... 3.8 MW Heavy Duty (-4 models) 700 kW ... 6.6 MW Heavy Duty (-6 models)	80 kW ... 1.2 MW @ 400 Vac 550 kW ... 980 kW @ 690 Vac
Voltage	3 x 230 ... 500 Vac ^[1] (-4 models) 3 x 500 ... 690 Vac ^[1] (-6 models)	3 x 400 ... 480 Vac Heavy Duty 3 x 690 Vac Heavy Duty
Mains frequency	50 Hz or 60 Hz (configurable by dip-switch)	50 Hz or 60 Hz (configurable by dip-switch)
THD	<45%	<45%
DC-link rated voltage	U _{ln} x 1.35	U _{ln} x 1.35
Continuous output current	1,250 A up to 9,240 A continuously	185 A up to 3,000 A
Digital inputs	1 (enable)	1 (enable)
Digital outputs	2 + 1 Relay outputs (drive OK contact)	2 + 1 Relay outputs (drive OK contact)
Overload	Heavy duty: 150% * I _n (60" each 300") Light duty: 110% * I _n (60" each 300")	Heavy duty: 150% * I _n (60" each 300")
Input choke	External (mandatory)	External (mandatory)
Pre-charge choke	External (mandatory) for +PRC models	Not necessary
Precharge kit	External Integrated on -T and +PRC models	Integrated
Functions	(Models -T and +PRC only) Opening of the OK relay in case of: - Overtemperature - Power supply loss on the regulation card (±15 V) - Loss of mains - Completely discharged DC link	Opening of the OK relay in case of: - Overtemperature - Power supply loss on the regulation card (±15 V) - Loss of mains - Completely discharged DC link
Protection degree	IP20 casing, excluded top and lower power connections where protection degree is IP00 (according to EN 60529)	IP20 (IP00 size 2,000 A)
Certification	  ^{us} (with Power Supply ≤600 Vac only, in progress)	

NOTES

[1] Configurable by dip-switch.

Inverters for Lifts

Model		ADL510	ADL530	ADL550
				
Control mode		SSC (Sensorless Scalar Control) Asyn SLS (Sensorless FOC) Asyn FOC (Field Oriented Control CL)	SSC (Sensorless Scalar Control) Asyn SLS (Sensorless FOC) Asyn / Syn FOC (Field Oriented Control CL)	
Motor type		Asynchronous	Asynchronous, synchronous	
Input voltage (output power)		-4: 3 x 400 Vac	-4: 3 x 230-400-480 Vac -2T: 3 x 200-230 Vac	-4: 3 x 230-400-480 Vac -2T: 3 x 200-230 Vac -2M: 1 x 200-230 Vac
Power range		-4: 4 ... 22 kW	-4: 4 ... 45 kW -2T: 5.5 ... 22kW	-4: 4 ... 45 kW -2T: 5.5 ... 22kW -2M: 1.1 ... 5.5 kW
Speed accuracy		±0.01% rated motor speed		
Analog inputs		1		
PTC input		-	Yes	
Digital outputs		4 (relay)		
Fast freeze inputs		-	2	
Overload		183% x 10 s	183% x 10 s	183% x 10 s / 200% x 2 s
+24 V dc external supply		-	Yes	
Regulation terminals		Removable		
IO extension		-	4DI + 2RO	
Max output frequency		300 Hz		
EMI filter		Integrated (in the ADL5x0-...-F version)		
Braking unit		Integrated		
USB port		-	Yes	
Wi-Fi module		-	Optional	Optional
Encoder		TTL/HTL	Universal multi-encoder card integrated (TTL/HTL/EnDat/BiSS/SinCos/SSI)	
Emergency operation		Based on drive version: UPS (1x230 Vac), UPS or battery with aux PW supply (UB version), direct 48-96 Vdc battery supply (EMS version)		
Functions		- Wizards for: - Drive set-up - Startup - Optimization of comfort and performance - Troubleshooting - Management of built-in incremental digital encoder with repetition - Multi-speed control (EFC) - Calculation of energy savings in regenerative configuration - Extended emergency functions	In addition to the functions of the ADL510 : - Universal multi-encoder card integrated - Wireless control through WEG Liftouch APP - USB port for: - Import/export parameter file - FW download - Drive language selection - Setting motor data from DB - Datalogger - CANopen Lift 417	In addition to the functions of the ADL530 : - Safety functions - System stand-by management - Position Control - Direct Arrival (EPC) - DCP3 and DCP4 protocol (with optional card EXP-DCP-ADL500)
Communication		Modbus-TCP (RJ45 port)		
Protection level		IP20		
Safety features		-	- Safe Torque Off SIL3 (Contactorless) - Safe Brake Test (SBT) - Safe Brake Control SIL3 (with EBC500 external module)	
Operating temperature	Size 1/2/3	40°C (without derating) 50°C (with derating)		50°C (without derating)
	Size 4	-	45°C (without derating) 50°C (with derating)	
Altitude		Max 2,000 m (up to 1,000 m without derating)		
Marks		 Check for each individual product.		
Standards		Climatic conditions: EN 60721-3-3 Electrical safety: EN 61800-5-1, ASME17.5/CSA B44.1, UL840 pollution degree 2 EMC compatibility: EN 12015 (with integrated filter), EN 12016 Other elevator standards: EN 81-20, EN 81-50, EN 50581:2012		

Model	VDL200
	
Control mode	Field oriented control
Power	4 ... 22 kW
Voltage	3 x 230-400 Vac, -15%+10%, 50 Hz
Speed control (accuracy)	±0.01% Motor rated speed
Analog inputs	1
+24 V dc external supply	No
Digital outputs	4 (relay)
Overload	Up to 200% In x 10"
Max output frequency	300 Hz
EMI filter	Integrated (VDL200-F models)
Choke	DC side choke: external optional AC side choke: external optional
Braking unit	Integrated with external resistor
USB port	No
Wi-Fi module	No
Dimensions for roomless applications	Yes
Emergency operation	Optional (UPS single-phase 230 V)
Type of lift	Geared
Installations	New installation and retrofitting
Functions	• Speed control • Short floor management • Lift sequence management • Ramp generation • Management of up to 8 multispeeds • Load compensation • Configuration via optional keypad (5 languages) • Configuration via PC (WEG_eXpress) • Wizard for commissioning • Menu for setting electrical and mechanical parameters • Programming with linear engineering units • DC power supply or emergency single-phase power supply to return to floor with optimized consumption • The drive complies with the monitoring requirements of the correct lifting or dropping of the machine brake according to 5.6.7.3 of EN 81-20:2014 and 5.8 of EN 81-50:2014
Optional cards	-
Communication protocols	RS232 ^[1]
Protection degree	IP20
Marks	 ^[2]
Standards	EN 81-20, EN 81-50

NOTES

[1] The serial port is used for programming (PC).

[2] Complies with the EC Directive concerning low voltage equipment (Directives LVD 2014/35/EU, EMC 2014/30/EU, Lift 2014/33/EU, RoHS 2011/65/EU).



Inverters for Lifts

Model	ADL300-2T	ADL300-2M	ADL300-4
			
Control mode	Field oriented control	Field oriented control	Field oriented control
Power	5.5 ... 37 kW [7.5 ... 50 HP]	1.1 ... 5.5 kW [1.5 ... 7.5 HP]	4 ... 75 kW [5 ... 100 HP]
Voltage	3 x 200 Vac, 3 x 230 Vac, 50/60 Hz	1 x 230 Vac, 50/60 Hz	3 x 230 Vac, 3 x 400 Vac, 3 x 480 Vac, 50/60Hz
Motor type	Asynchronous / Synchronous	Asynchronous / Synchronous	Asynchronous / Synchronous
Speed control (accuracy)	±0.01% motor rated speed	±0.01% motor rated speed	±0.01% motor rated speed
Analog inputs	ADL300B: 0 - ADL300A: upon request	ADL300B: 0 - ADL300A: upon request	ADL300B: 0 - ADL300A: upon request
Analog outputs	ADL300B: 0 - ADL300A: upon request	ADL300B: 0 - ADL300A: upon request	ADL300B: 0 - ADL300A: upon request
Digital inputs	ADL300B: 8 + 1 Enable ADL300A: upon request	ADL300B: 8 + 1 Enable ADL300A: upon request	ADL300B: 8 + 1 Enable ADL300A: upon request
Digital outputs	ADL300B: 4 (relay) ADL300A: upon request	ADL300B: 4 (relay) ADL300A: upon request	ADL300B: 4 (relay) ADL300A: upon request
Overload	Up to 200% In x 10" (up to 11 kW) Up to 180% In x 10" (≥15 kW)	Up to 200% In x 3	Up to 200% In x 10" (up to 22 kW) Up to 180% In x 10" (≥30 kW)
Max output frequency	300 Hz	300 Hz	300 Hz
EMI filter	Integrated (ADL300.-F models) (EN 12015, EN 61800-3)	Optional external (EN 12015, EN 61800-3)	Integrated (ADL300.-F models) (EN 12015, EN 61800-3)
Choke	DC side choke: integrated (≥30 kW), external optional on lower sizes AC side choke: external optional	No	DC side choke: integrated (≥30 kW), external optional on lower sizes AC side choke: external optional
Braking unit	Integrated up to 30 kW with external resistor	Integrated with external resistor	Integrated up to 55 kW with external resistor
Port for SD card	Yes	Yes	Yes
Dimensions for roomless applications	Yes	Yes	Yes
Emergency operation	Optional (UPS)	Optional (UPS)	Optional (UPS)
Type of lift	Geared / Gearless	Geared / Gearless	Geared / Gearless
Installations	New installation and retrofitting	New installation and retrofitting	New installation and retrofitting
Functions	The ADL300 is available in two configurations: • ADL300A (advanced): to guarantee maximum programmability, the ADL300A is supplied as standard with no I/O or feedback cards, leaving the customer free to perform the appropriate configuration, choosing from an extensive range of options. • ADL300B (basic) features the following as standard: - 8 (Prog. DI) + 1 DI (Enable) + 4 (RO) - Channels A+ A-, B+ B-, Z+ Z-, differential line drivers, optoisolated; management of loss of encoder signals; encoder signal repetition; TTL electrical interface. - Input for absolute SinCos or Endat / SSI encoder.		
Communication protocols	RS232 ^[1] , Modbus-RTU, DCP3, DCP4, CANopen and CANopen Lift DS417 (ADL300B-...-C models)	RS232 ^[1] , Modbus-RTU, DCP3, DCP4, CANopen and CANopen Lift DS417 (ADL300B-...-C models).	RS232 ^[1] , Modbus-RTU, DCP3, DCP4, CANopen and CANopen Lift DS417 (ADL300B-...-C models).
Protection degree	IP20	IP20	IP20
Marks	  (UL 508C)	 	  (UL 508C)
Standards	EN 81-20, EN 81-50	EN 81-20, EN 81-50	EN 81-20, EN 81-50

NOTES

[1] The serial port is used for programming (PC).

[2] Complies with the EC Directive concerning low voltage equipment (Directives LVD 2014/35/EU, EMC 2014/30/EU, Lift 2014/33/EU, RoHs 2011/65/EU).

DC drives

Model	TPD500
	
Current rating	From 20 A to 3,300 A ^[1]
Rated AC voltage input	3 x 230 ... 500 Vac $\pm 10\%$, 50/60 Hz $\pm 5\%$ 3 x 350 ... 690 Vac $\pm 10\%$, 50/60 Hz $\pm 5\%$ ^[2]
Operating quadrants	2B models = two quadrants 4B models = four quadrants
Bridge configuration	6 pulses ^[3]
Field circuit supply (U1/V1) – 1ph	2 x 230 ... 500 Vac $\pm 10\%$, 50/60 Hz $\pm 5\%$
Regulation supply (U2/V2) – 1ph	115 Vac $\pm 10\%$, 50/60 Hz $\pm 5\%$ 230 Vac $\pm 10\%$, 50/60 Hz $\pm 5\%$
Analog inputs	No. 3 differentials (12 bit, programmable, selectable for ± 10 Vdc, 0 ... 20 mA, 4 ... 20 mA)
Analog outputs	No. 2 (± 10 Vdc)
Control inputs	No. 4 (enable, start, fast stop, ext. fault; 0-24 Vdc PNP/NPN, optoisolated)
Digital inputs	No. 4 programmable (0-24 Vdc PNP/NPN, optoisolated)
Digital outputs	No. 4 programmable (0-24 Vdc PNP/NPN, optoisolated)
Relay output	• No. 1: drive OK (0.5 A @230 Vac - 1 A @115 Vac) • No. 1: programmable (0.5 A @230 Vac - 1 A @115 Vac)
Encoder input	• No. 2 Digital Incremental TTL 5 Vdc /HTL 15 ... 24 Vdc, channels A-B-Z, opto-isolated • Encoder power supply 5.2 ... 6.5 Vdc (TTL) - 24 Vdc (HTL)
Tachogenerator input	No. 1 (from ± 22.7 Vdc to 302.9 Vdc)
Motor thermistor input	No. 1 (PTC according to DIN 44081 or 44082)
Overload	Programmable I ² t algorithm
EMI filter	External optional
Input choke	External optional
On-board drive options	• I/O expansion • Communication interface • Wi-Fi module
Functions	• Self-calibration of current loop ("Predictive") • No. 5 independent and programmable ramps • No. 7 programmable multi-speed • Min/Max speed limits with independent settings for each speed direction • Armature current limitation as a function of speed • Adaptive speed controller gains • Jog function • Motor potentiometer function • SCR test • I²t drive and motor protection • WEG_DriveLogic: dedicated workspace for the development environment • Applications available as default: PID control and torque winder • "Speed Draw" function • "Autocapture" function (hang-up on the fly) • "Droop" function • External brake control • Test generator • Recipe configurator • Programmable alarm management
Communication protocols	• No. 1 Ethernet port (Modbus TCP) • No. 1 RS485 port (Modbus RTU) • Optional: PROFINET, PROFIBUS, EtherNet/IP
Protection degree	IP20 frames A-B-C and CU IP00 frame E
Operating temperature	• Up to 40°C without derating • Up to 55°C with derating
Altitude	• North America (cULus) - max 2000 m, up to 1000 m without derating • All other regions - max 4000 m, up to 1000 m without derating
Marks	   ^[4]
Standards	General standards: EN 61800-1, EN 60146-1-1 Electrical safety: EN 61800-5-1, UL 61800-5-1 EMC compatibility: EN 61800-3 Degree of protection: EN 60529

Servomotors

Model	SBM
	
Type	Standard brushless motor
Stall torque	From 0.8 to 580 Nm
Number of poles	6 (SBM 3) 8 (SBM 5, 7, 8, 9)
Rated power supply voltage	3 x 400 Vac
Speed	1,000 rpm, 1,500 rpm, 2,000 rpm, 3,000 rpm, 4,000 rpm, 6,000 rpm
Type of construction	B5 (standard) Upon request: B3&B5; F75, F115
Shaft diameter	• 11 mm (SBM 3) • 19 mm (SBM 5) • 24 mm (SBM 7) • 28 mm (SBM 7) • 42 mm (SBM 8) • 48 mm (SBM 9) • Special sizes upon request
Type of shaft	• Shaft with key (standard) • Upon request: shaft without key
Connections	• Power and signal connectors (SBM 3-5-7) • Box with power terminal strip and signal connectors (SBM 8-9).
Protection degree	• IP54 (standard) • Upon request: IP65 (no servo-ventilation, with oil seal)
Feedback devices	• 2-pole resolver (standard). • Upon request (not available on SBM 3): Encoder SinCos, Encoder Hiperface, Encoder EnDat
Brake	• Optional • Upon request: motor with brake, motor with brake and fan
Fan	• Standard in -F models • Upon request: motor with fan; motor with brake and fan
Oil seal	• Standard in SBM 8 and SBM 9 models • Upon request: other models
General characteristics	• Class F motor isolation • PTC thermal protection • Balancing: with key • Any running position • Bearings permanently lubricated
Certification	

NOTES

[1] Higher size on request.

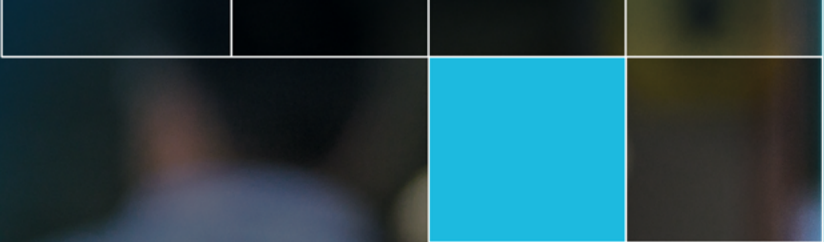
[2] Special version on request.

[3] 12-pulses configuration available soon.

[4] EAC in progress; for more details please refer to the product manual.

[illegible]

[illegible]



Global presence

is essential, as much
as understanding
your needs.



Global Presence

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WEG's know-how guarantees our **Variable Speed Drives** are the right choice for your application and business, assuring safety, efficiency and reliability.



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Partnership is to create solutions that suits your needs



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The values shown are subject to change without prior notice.
The information contained is reference values.