

2012

Drive & Motion Control Unit

SIEDrive Drive & Motion products



Drive Overview



Inverter



Inverter LIFT



Servodrive



Digital DC drive



Regenerative power supply unit

English

GEFRAN



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Forty-five years of experience, an extensive know-how, a structure precisely geared to our customers' requirements and continued investment in R&D, make Gefran a leader in the field of components for automation and industrial process control systems.

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The **Gefran Drive & Motion Control Unit**, based in Gerenzano (Varese, Italy), designs, develops and manufactures **electric drives and power regeneration systems** used to control motors and application systems in the main industrial sectors, including: plastics, civil lift engineering, water treatment and ventilation, as well as control architectures for renewable energy systems.

The **ADV200** and **AFE200**, a complete range of solutions dedicated to the most advanced industrial automation systems, are the fruit of this experience.

In particular, by specialising in the civil hoisting-equipment sector and working together with leading lift manufacturers on an international scale, it has contributed to the production of dedicated, well-thought-out, lines to satisfy the most varied types of systems.



Guide to choices by application

	Inverter					Inverter LIFT	Inverter LIFT with integrated power recovery	Servodrive	Digital DC drive	Regenerative power supply unit
Applications	ADV20 & ADV50	ADV80	ADV100	ADV200	ADV200 Cabinet	AGL... ADL...	AVRy	XVy-EV	TPD32 EV	AFE200
Plastic processing machinery	•	•	•	•	•			•	•	•
Metal processing machinery				•	•			•	•	•
Machinery for the textile industry	•	•	•	•	•			•	•	•
Water treatment			•	•	•					•
HVAC	•	•	•	•	•					•
Test benches			•	•	•			•	•	•
Material handling	•	•	•	•	•			•	•	•
Conveyors	•	•	•	•	•			•	•	•
Material recycling machinery	•	•	•	•	•			•	•	•
Lifts						•	•			•
Hoisting equipment	•	•	•	•	•	•	•			•

Inverter



Model	ADV20 & ADV50	ADV80	ADV100	ADV200
Control mode	V/f control (ADV20) V/f & Sensorless vector (ADV50)	Torque vector	Field Oriented Control	Field Oriented Control
Power	0.4 ... 3.7kW [0.5 ... 5.0 Hp] (ADV20) 0.4 ... 11kW [0.5 ... 15 Hp] (ADV50)	0.37 ... 22kW (0.5 ... 30Hp)	4 ... 90kW (5 ... 125Hp)	0.75kW...1.2MW [1...1600Hp] (-4 models) 75kW...1.2MW [100...1600HP] (-6 models) 18.5kW...1.2MW [25...1600HP] (-DC models)
Voltage	1 x 100...120 Vac (ADV20), 50/60Hz 1 x 200...240 Vac, 50/60Hz 3 x 200...240 Vac (ADV50), 50/60Hz 3 x 380...480 Vac, 50/60Hz	3 x 400 V -15% ... 480 V +10%	3 x 230...500Vac, 50/60Hz	3 x 380...500Vac, 50/60Hz (-4 models) 3 x 690Vca, 50/60Hz (-6 models) 450...750Vcc (-DC models)
Speed control (precision)	0.5% 0.02% with digital encoder (ADV50)	0.1%	± 0.01% Motor rated speed (1)	± 0.01% Motor rated speed (1)
Analog inputs	1 (ADV20), 2 (ADV50) (current or voltage)	2 two-pole (Voltage/Current)	2 two-pole (Voltage/Current)	2 two-pole (Voltage/Current)
Analog outputs	ADV20: 1 (PWM) ADV50: 1 (voltage)	2 two-pole (Voltage/Current)	2 two-pole (1 voltage or current, 1 voltage)	2 two-pole (1 voltage or current, 1 voltage)
Digital inputs	6	5	6 (+ 1 Enable)	6 (PNP / NPN)
Digital outputs	1 (relay) - (ADV20) 2 (1 static and 1 relay)- (ADV50)	2 (1 static and 1 relay)	2 (relay)	4 (PNP / NPN), (2 static and 2 relay)
Overload	150% * In (for 1 minute)	150% * In (for 1 minute)	150% * In (1 ' every 5') 180% * In (0.5 " every 5')	Heavy: 150% * In (1' every 5'); 180% * In (0.5" every 5') Light: 110% * In (1' every 5') (3)
Max output frequency	600Hz	500Hz	500Hz	500Hz
EMI filter	Integrated (230 V single-phase and 400-460 V three-phase models)	Optional	Integrated (sizes ≥ 30kW)	Integrated
Choke	Optional	Optional	Integrated DC side (sizes ≥ 30kW)	Integrated DC side (up to 132 kW)
Braking unit	Integrated (ADV50 only): ≥ 1.5kW (230V) ≥ 2.2kW (400V)	Integrated	Integrated (up to 55kW) External optional (≥75kW)	Integrated (up to 55kW) External optional (>75kW)
Options for integration onboard drive	1 (ADV20) 2 (ADV50)	None	2	3
PLC	no (ADV20) yes (ADV50)	no	yes (Motion Drive Programmable Logic Controller, standard IEC61131-3)	yes (Motion Drive Programmable Logic Controller, standard IEC61131-3)
Safety Card	no	no	no	yes (models ADV200-...-S1)
Functions	<ul style="list-style-type: none"> Self-tuning of motor parameters Auto-torque/slip compensation Automatic Voltage Regulation (AVR) Multispeed selection from 0 to 15 2 independent ramp times for acceleration/deceleration Jog function and motor potentiometer S-shape accel./decel. curve Overvoltage/overcurrent stall prevention Integrated PID control Energy saving function Restart after temporary power loss Selection of NPN/PNP inputs Fan speed control Configuration of 4 motors. 	<ul style="list-style-type: none"> Self-tuning of motor parameters Predefined and programmable V/f curves 4 independent programmable ramps 16 programmable speeds Auto-capture function Mains loss detection with controlled stop Programmable auto restart PID application block Energy saving function Skipping of critical frequency bands Motor thermal cutout switch Integrated virtual or remote I/O management Areas with programmable logic. 	<ul style="list-style-type: none"> 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% 12t thermal protection for motor Energy saving PID control 16 multispeeds and 4 multiramp settings (linear, jerk, independent and S-shape) Dedicated energy saving function PID with value settings in engineering units Control of electromechanical parking brake mounted on motor SD card kit (ADV100-...-C models) Programming menu in 5 languages. 	<ul style="list-style-type: none"> 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% Double overload 12t 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 block (application pre-loaded) Mains loss detection with: controlled stop and/or power optimisation Variable switching frequency
Serial communication	RS-485 (RJ-45) with Modbus protocol. Optional: DeviceNet, Profibus, LonWorks, CANopen.	RS485 (2), Modbus RTU. -C models: DeviceNet and CANopen integrated. External optional: Profibus DP	RS232 (2), Modbus RTU. Optional: DeviceNet, CANopen.	RS485 (2), Modbus RTU. Optional: DeviceNet, Profibus DP, CANopen, GDNNet, Ethercat.
Protection class	IP20	IP20	IP20	IP20 (IP00 size 7 and parallel)
Markings	CE, UL and cUL	CE, UL and cUL	CE, UL and cUL	CE, UL and cUL

(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.



ADV200 Cabinet

Field Oriented Control

90kW...1.2MW
(125....1600HP)

3 x 380...500Vac, 50/60Hz (-4 models)
3 x 690Vca, 50/60Hz (-6 models)
450...750Vcc (-DC models)

± 0.01%
Motor rated speed (1)

2 two-pole
(Voltage/Current)

2 two-pole
(1 voltage or current, 1 voltage)

6
(PNP / NPN)

4
(PNP / NPN), (2 static and 2 relay)

Heavy: 150% * In (1' every 5);
180% * In (0.5" every 5)
Light: 110% * In (1' every 5) (3)

500Hz

Optional

Up to 132 kW: Integrated DC side
≥ 132 kW: Integrated mains choke

Optional

3

yes
(Motion Drive Programmable Logic Controller,
standard IEC61131-3)

yes

- Constant torque and variable torque mode (skip size function)
- MDPLC advanced development environment (according to IEC 61131-3)
- Safe torque off function (ADV200-...-SI models)
- Programming keypad with 5 complete sets of drive parameters saved
- Programming menu in 10 languages.

RS485 (2), Modbus RTU.
Optional: DeviceNet,
Profibus DP, CANopen, GdNet, Ethercat.



IP23 or IP54/IP55


CE

Inverter LIFT




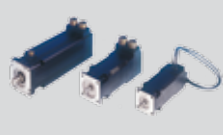
Model	AGL50	ADL100	ADL130-1ph
Control mode	Space Vector	Field Oriented Control	Field Oriented Control
Power	4 - 5.5 - 7.5 kW (5 - 7.5 - 10Hp)	4 ... 22kW (5 ... 30Hp)	1.1 ... 5.5kW (1.5 ... 7.5Hp)
Voltage	3 x 400Vca ... 480Vca, 50/60Hz	3 x 230Vca, 3 x 400Vca, 3 x 480Vca; 50/60Hz	1 x 230Vca; 50/60Hz
Motor type	Asynchronous	Asynchronous	Synchronous
Speed control (precision)	0.5 ... 1%	± 0.01% Motor rated speed (1)	± 0.01% Motor rated speed (1)
Analog inputs	1	0	0
Analog outputs	1	0	0
Digital inputs	6	5	5
Digital outputs	3 (1 static and 2 relay)	3 (relay)	3 (relay)
Overload	up to 170% * In	up to 200% In * 10"	up to 200% In * 10"
Max output frequency	500Hz	300Hz	300Hz
EMI filter:	Optional	Optional	Optional
Choke	Optional	Optional	no
Braking unit	Integrated with external resistor	Integrated with external resistor	Integrated with external resistor
Port for SD card	no	no	no
Dimensions for roomless applications	yes	yes	yes
Emergency operation	Optional (with UPS)	Optional (UPS or buffer battery with EMS module)	Optional (UPS or buffer battery with EMS module)
Max system speed	1.0 m/s	1.2 m/s	1.0 m/s
Type of lift	Geared	Geared	Geared / Gearless
Installations	New installation & Retrofitting	New installation & Retrofitting	New installation & Retrofitting
Functions	<ul style="list-style-type: none"> • 16 multispeeds • 4 multiramps (linear, S-shaped with independent jerk settings) • Self-tuning of motor parameters • Integrated lift sequences • Speed expressed in m/s • Management of space calculated by the drive, even offline • Management of short floors • Motor contactor control • Integrated brake control • Temperature control for motor and drive. 	<ul style="list-style-type: none"> • Speed control (EFC Elevator Floor Control function) • Lift sequence • Programming with different engineering units • Lift mechanical parameters • Ramp generation • 8 Multispeeds • Pre-torque (load compensation) • Automatic fan control • Emergency single-phase power supply to return to the floor • Wizard function for commissioning • Programming menu in 5 languages. 	<ul style="list-style-type: none"> • Controllo di velocità (Funzione EFC Elevator Floor Control) • Sequenza Ascensore • Programmazione con differenti unità ingegneristiche • Parametri meccanici ascensore • Generazione Rampa • 8 Multi velocità • Pre-torque (Compensazione del carico) • Controllo automatico ventilazione • Alimentazione monofase d'emergenza per ritorno al piano • Menu guidato per messa in servizio • Menu di programmazione in 5 lingue.
Serial communication	RS485 (2), Modbus RTU.	RS232 (2), Modbus RTU.	RS232 (2), Modbus RTU.
Protection class	IP20	IP20	IP20
Markings	CE, UL and cUL	CE, UL and cUL	CE, UL and cUL

Inverter LIFT with integrated power recovery	
	
ADL200	AVRy
Field Oriented Control	Field Oriented Control
4 ... 75kW (5 ... 100Hp)	11kW (15Hp), 20kW (27Hp) and 27kW (36Hp) (with high voltage motors) Or 7.5kW (10Hp), 14kW (19Hp) and 17kW (23Hp) (with standard motors)
3 x 230Vca, 3 x 400Vca, 3 x 480Vca; 50/60Hz	3 x 400Vca, 3 x 460Vca, 50/60Hz
Asynchronous / Synchronous	Synchronous
± 0.01% Motor rated speed (1)	± 0.01% Motor rated speed (1)
0	2
0	2
8	6
4 (relay)	4 (2 static and 2 relay)
up to 200% In * 10" (up to 22kW) up to 180% In * 10" (≥ 30kW)	183% In * 10"
300Hz	300Hz
Integrated (EN 12015, first environment, category C2)	Integrated (EN 12015)
Integrated DC side (sizes ≥ 30kW)	Integrated (EN 12016)
Integrated fino a 55kW with external resistor	no (Regeneration)
yes	no
yes	yes
Optional (UPS or buffer battery with EMS module)	Optional (UPS or buffer battery with EMS module)
4.0 m/s	3.0 m/s
Geared / Gearless	Geared / Gearless
New installation & Retrofitting	New installation & Retrofitting
<ul style="list-style-type: none"> Speed control (EFC Elevator Floor Control function) Position control (EPC Elevator Positioning Control function) DCP3-4 control Lift sequence Programming with different engineering units Lift mechanical parameters Ramp generation 8 Multispeeds Pre-torque (load compensation) Management of short floors Off-floor detection Automatic calculation of deceleration point Direct landing at the floor Automatic fan control Emergency single-phase power supply to return to the floor Wizard function for commissioning Programming menu in 5 languages. 	<ul style="list-style-type: none"> Integrated AFE regenerative technology Speed control (EFC Elevator Floor Control function) Lift sequence Parameters in linear units Lift mechanical parameters Ramp generation.
RS232 (2), Modbus RTU, DCP3, DCP4 and CAN	RS485 (2), Modbus RTU. Optional: DeviceNet, Profibus DP, CANopen
IP20	IP20
CE, UL and cUL	CE, UL and cUL


Servodrive		
Model	XVy-EV	XVyA-EV
		
Control mode	Servo	
Power	1.5...315kW (2 ... 450Hp)	0.75...630kW (1 ... 850Hp)
Voltage	0.75...132kW: 3 x 230...480Vac, 50/60Hz ≥ 160kW: 3 x 400...480Vac, 50/60Hz	0.75...132kW: 3 x 230...480Vac, 50/60Hz ≥ 160kW: 3 x 400...480Vac, 50/60Hz
Motor type	Synchronous	Asynchronous
Analog inputs	2 two-pole (Voltage/Current)	
Analog outputs	2 two-pole (Voltage/Current)	
Digital inputs	8	
Digital outputs	7 (6 static and 1 relay)	
Encoder input	1 encoder / resolver + 1 auxiliary input / repetition	
Overload	150% * In (60" every 5') 200% * In (0.5" every 5')	150% * In (60" every 5')
Max output frequency	450Hz	
EMI filter	External (optional)	
Choke	External (optional)	
Braking unit	Integrated (up to 55kW) External optional (> 55kW)	
Options for integration onboard drive	2	
PLC	yes (Motion Drive Programmable Logic Controller, standard IEC61131-3)	
Safety Card	YES (models XVy-EV...+SI)	
Functions	<ul style="list-style-type: none"> Torque control Speed control Position control Sequential position control (multi-position controller) Electric shaft Asynchronous or brushless motor control Fast Link Multiramp function (4) Multispeed function (8) Double overload t_T and 12T Coast through function (power failure) Brake control Flux reduction Motor potentiometer Power loss detection Linear motor control (XVy-EV) Softscope SW oscilloscope 	
Serial communication	RS485 (2), CANopen, Modbus RTU. Optional: DeviceNet, Profibus DP, FastLink, GDNat, Ethercat.	
Special version	Water-cooled version, Ambient temperature 60°C (XVy-EV...-EWH/EWHR models).	-
Protection class	IP20 (-C and -CP models available with IP00)	
Markings	CE, UL and cUL	

Model
Type
Stall torque
Number of poles
Rated power supply voltage
Speed
Type of construction
Shaft diameter
Type of shaft
Connections
Protection class
Feedback devices
Brake
Fan
Oil seal
General Characteristics
Markings


Servomotors

	
SBM	SHJ
High inertia brushless motor	Standard brushless motor
from 2 to 442 Nm	from 0.33 to 4.9 Nm
8 poles (SBM series)	4 poles (SHJ 2-3 series) 6 poles (SHJ 4 series)
3 x 230Vac 3 x 400Vac 3 x 460Vac	3 x 400Vac
3000 rpm 4000 rpm 4500 rpm 6000 rpm 8000 rpm	3000 rpm (SHJ 4) 4000 rpm (SHJ 2-3) 5000 rpm (SHJ 4) 8000 rpm (SHJ 2-3)
B5 (Standard) Upon request: B3&B5; F75, F115	B5 (Standard)
19 mm (SBM 5) 24 mm (SBM 7) 42 mm (SBM 8) 48 mm (SBM 9) Special sizes upon request.	9 mm (SHJ 2) 11 mm (SHJ 3) 14 mm (SHJ 4)
Shaft with key (standard); Upon request: shaft without key	Shaft with key (standard); Upon request: shaft without key
Power and signal connectors (SBM 5-7); Box with power terminal strip and signal connectors (SBM 8-9).	Power and signal connectors (SHJ 3-4); Cables (SHJ 2)
IP54 (Standard) Upon request: IP65	IP54 (Standard) Upon request: IP65
2-pole resolver (standard) Upon request: Digital encoder + Hall probe; Absolute encoder with SSI protocol; 5-track SinCos encoder; Encoder with EN-DAT 2.2 protocol	2-pole resolver (standard) Upon request: Digital encoder + Hall probe; 5-track SinCos encoder.
Optional Upon request: motor with safety brake; motor with brake and fan	Optional
Standard in -F models Upon request: motor with fan; motor with brake and fan	no
Standard in SBM 8 and SBM 9 models Other models: upon request	Optional
<ul style="list-style-type: none"> Class F motor isolation Class H windings Klixon thermal overload at 130°C Balancing: with key Shaft with key Any service position Protection class IP54 Connections: power and signal connector (SBM 5-7), connection box with power terminal strip and signal connector (SBM 8-9) Bearings permanently lubricated 	<ul style="list-style-type: none"> Class F motor isolation Class H windings Klixon thermal overload at 130°C Balancing: with key Shaft with key Any service position B5 flange Protection class IP54 Integrated 2-pole resolver Connections: free cables (SHJ 2), power and signal connector (SHJ 3-4) Bearings permanently lubricated
CE	CE

Digital DC drive

	
Model	TPD32 EV
Current rating	from 20 A to 3,300A A
Rated AC voltage input	3 x 230 ... 690 Vac, 50/60Hz
Rated DC voltage output	470 Vdc (@ 400 Vac - 2B) 420 Vdc (@ 400 Vac - 4B) 600 Vdc (@ 500 Vac - 2B) 520 Vdc (@ 500 Vac - 4B) 680 Vdc (@ 575 Vac - 2B) 600 Vdc (@ 575 Vac - 4B) 810 Vdc (@ 690 Vac - 2B) 720 Vdc (@ 690 Vac - 4B)
Operating quadrants	2B models = two quadrants; 4B models = four quadrants
Field circuit (U1/V1) – 1ph	230 Vac ± 10%, 50/60Hz ± 5% 400 Vac ± 10%, 50/60Hz ± 5% 460 Vac ± 10%, 50/60Hz ± 5%
Regulation circuit (U2/V2) – 1ph	115 Vac ± 15%, 50/60Hz ± 5% 230 Vac ± 15%, 50/60Hz ± 5%
Analog inputs	3 differential (12 programmable bits, selectable for ± 10 VDC, 0 - 20 mA, 0 - 10 VDC, 4 - 20 mA)
Analog outputs	2 (±10Vdc)
Digital inputs	8 (4 fixed + 4 programmable)
Digital outputs	5 (4 static and 1 relay)
Encoder input	2 sinusoidal (5 V power supply) and digital (24 V power supply)
Tachogenerator input	1
Motor thermistor input	1
Overload	i ² t algorithm programmable up to 200%
EMI filter	External optional
Input choke	External optional
Options for integration onboard drive	3 (I/O, fieldbus, APC200d)
Functions	<ul style="list-style-type: none"> Self-tuning of current and speed loop 5 independent and programmable ramps Programmable linear and S-shaped ramp 7 programmable multispeeds Min/Max speed limits with independent adjustment for each speed direction Current limitation according to speed Speed regulator adaptive gains Independent control of integral gain at zero speed Programmable overload control Jog function Controlled stop and automatic motor restart Motor potentiometer function 12t motor thermal cutout switch PID function Servo diameter control function Speed Draw function Auto-capture function Drift function
Serial communication	RS485 (2), Modbus RTU. Optional: DeviceNet, Profibus DP, CANopen.
Protection class	IP20 up to 1000 A (...2B) and 1050 A (...4B) IP20/IP00 for larger sizes
Markings	CE, UL and cUL (TPD32 EV...-NA series)

Regenerative power supply unit

	
Model	AFE200
Control mode	Active Front End technology
Power	22 kW... 1.2 MW (30 ...1600Hp)
Voltage	380 ... 480 Vac, 3ph
Power factor	≥ 0.99
THD	≤ 3%
Analog inputs	2 two-pole (Voltage/Current)
Analog outputs	2 two-pole (1 voltage or current, 1 voltage)
Digital inputs	6 (PNP / NPN)
Digital outputs	4 (PNP / NPN), (2 static and 2 relay)
Overload	150% * In (1 ' every 5') 180% * In (0.5 " every 5')
EMI filter	External mandatory
Input choke	External mandatory
Options for integration onboard drive	2
Pre-load kit	External mandatory External management of the intermediate circuit pre-load is a feature of the entire range. The dedicated AFE PRE-CHARGE KITS are supplied complete with pre-wired resistors and contactors.
Functions	<ul style="list-style-type: none"> "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.
Serial communication	RS485 (2), Modbus RTU. Optional: DeviceNet, Profibus DP, CANopen, GDNNet
Protection class	IP20 (IP00 size 7 and parallel)
Markings	CE, UL and cUL

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