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Variable Frequency Drives
CFW11

Technical Data

Supply	200...240V: +10% ...-15% of rated voltage
	380...480V: +10% ...-15% of rated voltage
Supply frequency	50/60Hz, +/-2Hz
Output frequency	0 to 300Hz
Types of control	Vector with encoder
	Vector sensorless
	V V W: voltage vector
	V/F (scalar)
Ambient temperature	-10 ...50ºC
	up to 60º with output current reduction (2%/ºC above 50ºC)
Humidity	5 to 90% without condensation
Altitude	0 to 1000m
	Up to 4000m without current reduction (1%n for each 100m above 1000m)
Braking methods	Dynamic braking (available in all standard models)
	Optimal braking
	DC braking
Efficiency	Greater than 97%
Degree of protection	IP21 for models with A, B and C sizes
	IP20 / NEMA1 for models with D size
Possibility of flange mounting	Available in all standard models, rear part of heatsink with IP54 degree of protection
Overload	Normal Duty: 110%, 60s
	Heavy Duty: 150%, 60s
Analog inputs	1 differential, resolution 12 bits, 0 to 10V/(0)4 to 20mA
	1 differential, resolution 11 bits + signal, 0 to +/- 10V/(0)4 to 20mA
Analog outputs	2 isolated, resolution 11 bits, 0 to 10V/(0)4 to 20mA
Digital inputs	6 optoisolated, bi-directional, 24Vdc
Relay outputs	3 reverse contact outputs (NO/NC), 240Vac/1A
Motor thermistor	PTC/PT100/KTY84, use 1 analog output programmed for contstant current + 1 analog input programmed for voltage
Supply + 24Vdc available for user	24Vdc +\-20%, 500ma
Norms	IEC 60146 – Semiconductor convertors
	UL508C – Safety for power conversion equipment
	EN 50178 – Electronic equipment for use in power installations
	EN 61800-2 – General requirements adjustable speed electrical power drive systems
	EN 61800-5-1 – Safety requirements adjustable speed electrical power drive systems
	EN 61800-3 – EMC product standard including specific test methods adjustable speed electrical power drive systems
	EN 60204 – Electronic equipment of machines
	RoHS and WEEE Guidelines

Data is subject to change without notice.

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Variable Frequency Drives
Communication Options & Superdrive

Profibus, Modbus and Device Net

Description	Catalog Number	List Price	Multiplier Symbol
SUPERDRIVE Software G2	SUPERDRIVE	$37	V1
SUPERDRIVE Software + USB Cable	SUPERDRIVE+USB	$301	V1
SUPERDRIVE KIT - CFW08 (KCS-CFW08 - RS232 PC Cable + CD Software)	KSD-CFW08	$97	V1
SUPERDRIVE KIT - CFW09 (KCS-CFW09 - RS232 PC Cable + CD Software)	KSD-CFW09	$156	V1
SUPERDRIVE G2 KIT - SSW06	KSDG2-SSW06	$62	V1
SUPERDRIVE G2 KIT - SSW07 (KRS-232-SSW07 + CAB-RS-3 + CD Software)	KSDG2-SSW07	$225	V1
RS-232/485 Converter (mounted externally)	MIW-02	$221	V1
RS-485 Kit for PC	417102506	$900	V1

Communication Options

The table below shows the hardware options required to provide WEG VFD's and Soft Starters with different serial communications or networking capabilities.

	RS-232	RS-485	Profibus-DP	DeviceNet	Modbus-RTU
CFW08	KCS-CFW08	KCS-CFW08 MIW-02	KCS-CFW08 MIW-02 MFW-01/PD	KCS-CFW08 MIW-02 MFW-01/DN	KCS-CFW08 MIW-02
CFW09	Standard	Exp. Boards	KFB-PD	KFB-DN	Exp. Boards
CFW11	-	-	PROFDP-05 Slot 4	DEVICENET-05 - Slot 4 CAN/RS-485-01 - Slot 3 CAN-01 - Slot 3	RS485-01 08 RS232-01 Slot 3
SSW05	Standard	MIW-02	MIW-02 MFW-01/PD	MIW-02 MFW-01/DN	MIW-02 MFW-01/MR
SSW06	NO	NO	KFB-PD- SSW06	KFB-DN-SSW06	KRS-485 SSW06
SSW07	See SSW07 Accessories				

"RS-485 Kit for PC" is required when SUPERDRIVE communicates with a multi drive RS-485 network. It is composed of a RS-232/RS-485 converter and a cable to connect to PC.

Superdrive

WEG Superdrive is a windows based software program that allows serial (RS - 232 or RS - 485) communication between a PC and all WEG Soft Starters and Variable Frequency Drives. Superdrive is an excellent programming, documentation, and troubleshooting tool for WEG Soft Starters and VFD's. Superdrive is available for free download at www.wegelectric.com.
Hardware accessories may be required depending on the Soft Starter or VFD line.

Standard Features

- Online and Offline Soft Starter or VFD programming
- Command and Monitoring
- Parameter set storage in a computer file format

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