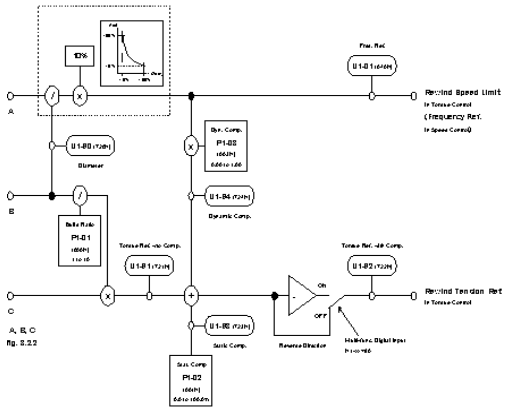
The inventer made for you. Inverter application software.

CASE software

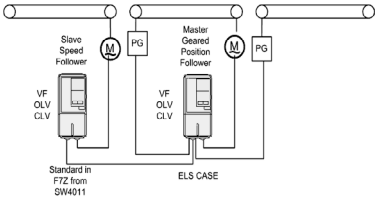
Customised software to meet your specific application requirements.

- The customised application software gives to a standard inverter the features of a dedicated solution.
- The CASE software is a special software file that can be downloaded to the standard inverter to provide additional functionality.
- Specific parameters, monitors and alarms can be added with application units.
- Logic functions can be added.
- I/O´s settings can be set for special functionality.
- CASE software is uploaded in the inverter at the factory.
- More than 30 CASE software versions already available.
- For detailed information, please contact your standard OMRON supplier.

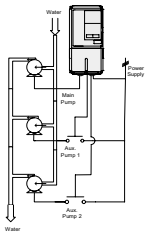


System configuration

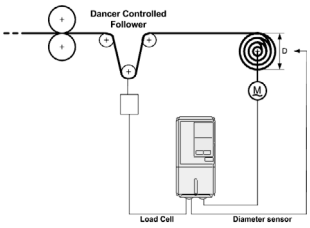
ELS software S-8161



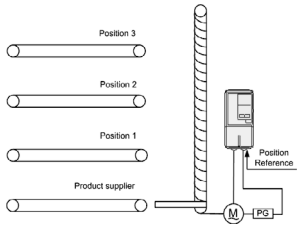
Pump sequencer software S-8801



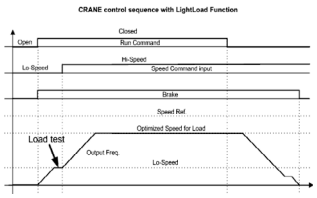
Winder software S-8180



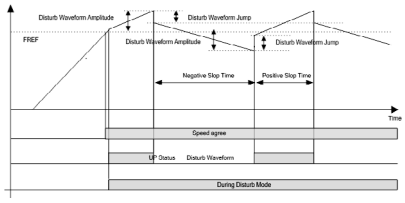
Point to point software S-8795



Crane software S-7071



Traverse software S-9381



Varispeed G7

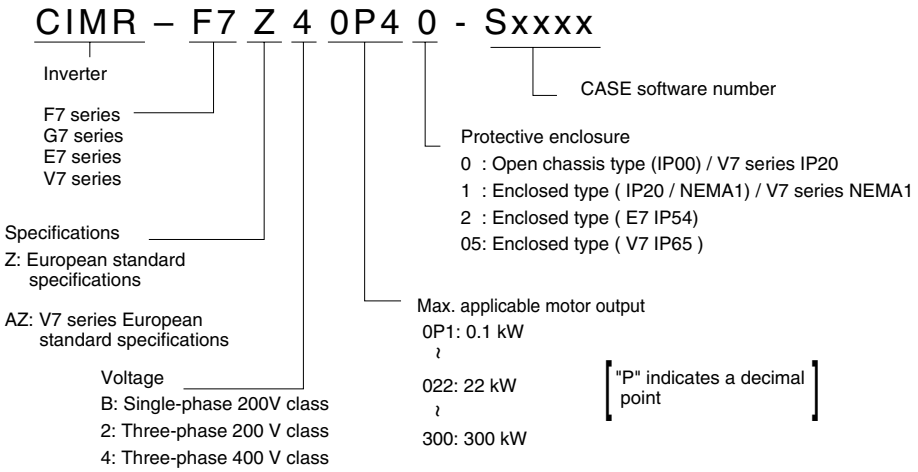
Varispeed F7

Varispeed E7

Varispeed V7

Specifications

Type designation



CASE software

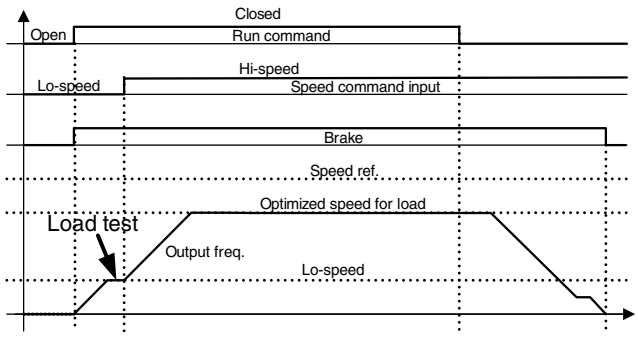
Compatible inverter	CASE software	Description	Application
Varispeed F7Z	S7071	Dedicated software for crane applications	Cranes
	S8161	Dedicated software for position and speed follower applications	Sinchronized movements
	S8180	Dedicated software for rewinding and unwinding applications	Rewinding & unwinding
	S8795	Dedicated software for point-to-point position applications	Point-to-point movements applications
Varispeed E7Z	S8801	Dedicated software for pump squencer applications	Water supply, building HVAC.
Varispeed V7AZ	S9381	Dedicated software for textile wire winding applications.	Textile winding

CRANE software - S7071

- Dedicated software for crane applications.
- Provides specific safety functionality.
- Dedicated brake sequence ensures no load movement.
- Smooth operation thanks to jerk control capabilities.
- Flexible over-load/over-torque detection levels.
- Load holding operation using “zero servo” function (closed loop vector)
- End of travel limit function for increased safety.
- High motor torque and speed accuracy even at low speed.
- Swift lift function optimizes vertical lifting speed to suit the load.
- Compatible inverters: F7 series

Operation description in crane software

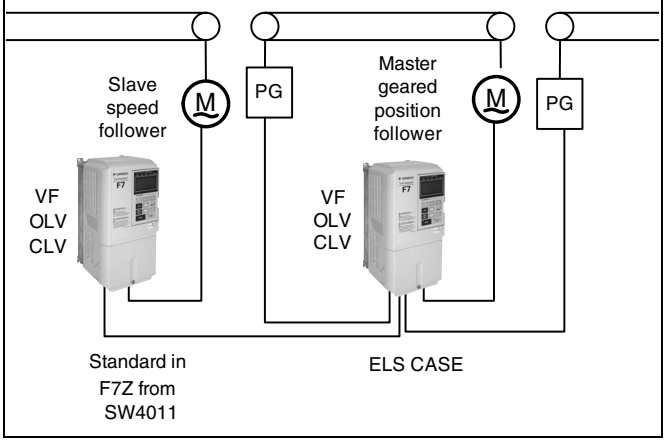
Crane control sequence with light load function



ELS - electronic line shaft software - S8161

- Dedicated software for position & speed follower applications.
- This functionality allows a slave drive to precisely follow a master encoder.
- The follower drive can match its position (phase angle) to the master.
- The speed or position ratio between the master and the follower is infinitely adjustable
- This function is used when the machine being driven requires two mechanically isolated and motor-driven mechanisms to maintain a constant position relationship.
- A gear ratio adjustment can be added to the speed reference via parameter, analogue input, or serial communication.
- Both the master and slave encoder signals are fed into the follower drive´s dual encoder option card. (PG-Z2)
- Position offset advance/retard by digital/parameter or communications.
- Compatible inverters: F7 series

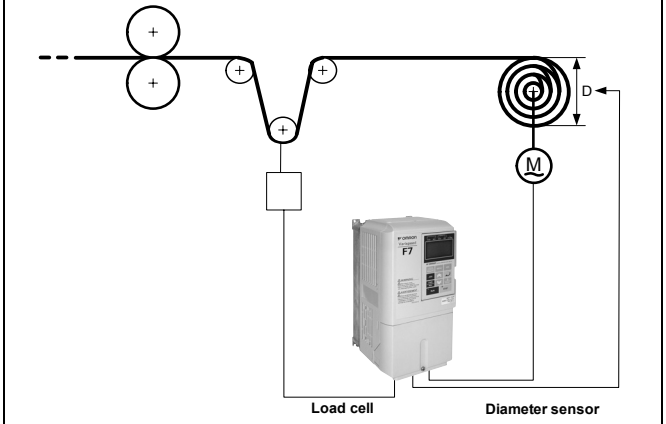
Example of ELS software application



Winder software - S8180

- Dedicated software for rewinding and unwinding applications.
- The software provides a specific calculation of the torque reference and speed limit in torque control for rewinder inverter drives.
- In diameter compensation (with or without external sensor) the rewind drive speed (frequency reference) is changed in relation to incoming web speed , diameter and tension to give the same linear speed as the diameter builds.
- The rewind torque is controlled to give constant tension control, the required tension being set from a potentiometer (analogue input) or from MEMOBUS communication.
- Direct PID based tension control is also available (dancer arm, load cell, etc...)
- Rewind and rewind modes.
- Inertia compensation function as well as static and dynamic friction compensation
- Compatible inverters: F7 series

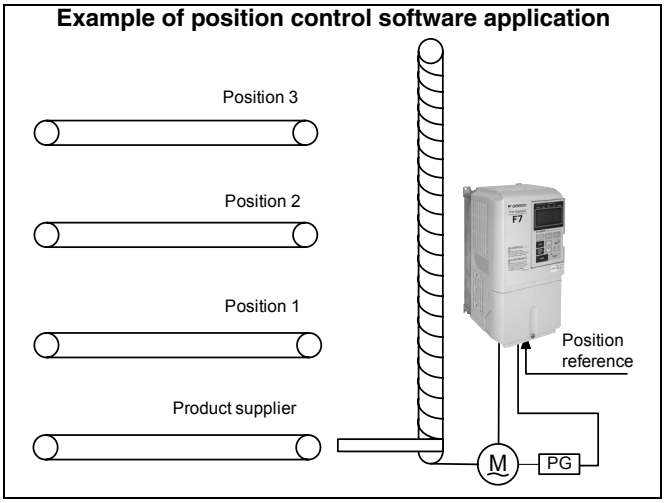
Example of winder software application



Point-to-point position control software - S8795

- Dedicated software for point-to-point position applications.
- Absolute or relative positioning.
- Homing functionality; sensor.
- On the fly position referencing
- 8 position memories with different speed, acceleration or deceleration sets.
- Selectable position reference from digital inputs, analog input or via comunications.
- Brake control.
- Emergency stop sequence
- Overtravel limit switches
- Easy to use.
- Compatible inverters: F7 series

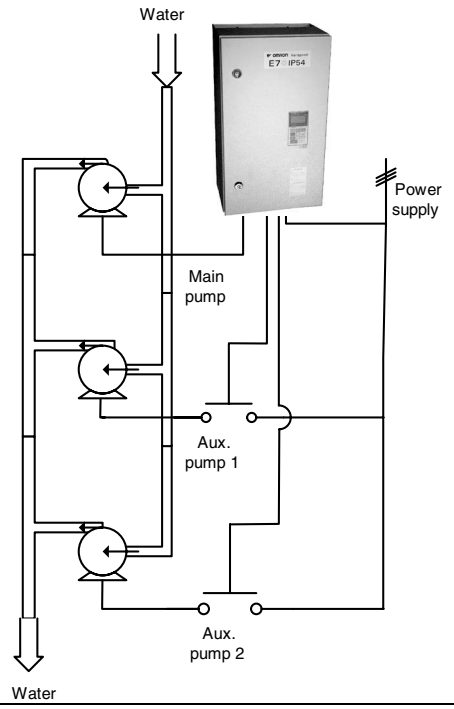
Example of position control software application



Pump sequencer software

- Dedicated software for pump sequencer applications.
- Physical units = Kg / L, bar, liter.
- Control mode selection by macro: pressure, flow, temperature,...
- Modulated pump with advanced PID.
- Auxiliary pump control for up to 2 pumps.
- Pressure feedback signal: 0-10 V, 0-20 mA, 4-20 mA or inverter sensor.
- Modulated pump automatic frequency drop & rise.
- Specific faults and alarms: dry run detection, pressure sensor broken...
- Pump working totalisers.
- Automatic / manual emergency mode operation by pump override.
- Test operation.
- Compatible inverters: E7 series

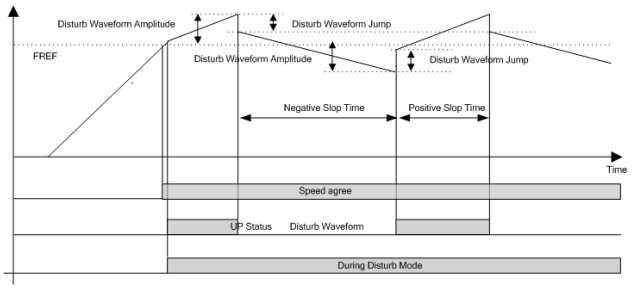
Example of pump sequencer software application



Traverse software

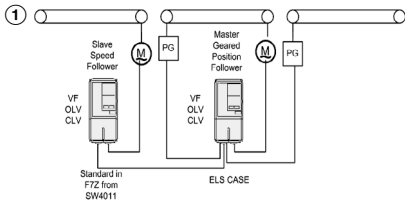
- Dedicated software for textile wire winding applications.
- Disturbed wave form allows perfect wire positioning during winding process, ensuring perfect and smooth unwinding.
- Amplitude and time periods are fully customizable
- Compatible inverters: V7AZ series.

Operation description in traverse software

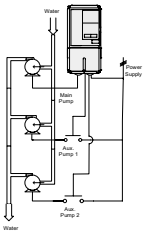


Ordering information

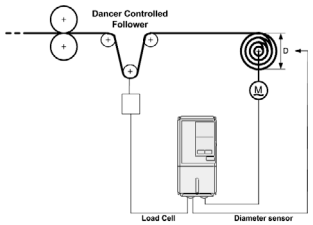
ELS software S-8161

① 

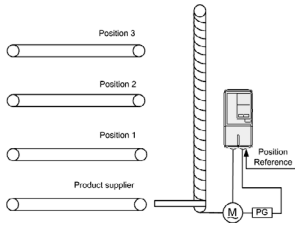
Pump sequencer software S-8801

① 

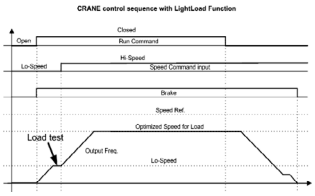
Winder software S-8180

① 

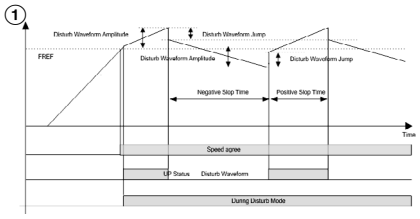
Point to point software S-8795

① 

Crane software S-7071

① 

Traverse software S-9381

① 

② 

Varispeed G7

Varispeed F7

Varispeed E7

Varispeed V7

Note: The symbols ①② show the recommended sequence to build the item name with CASE software.

① CASE software

Type	CASE software	Description	Application
CIMR-F7Zxxxxx-S	7071	Dedicated software for crane applications	Cranes
	8161	Dedicated software for position and speed follower applications	Sinchronized movements
	8180	Dedicated software for rewinding and unwinding applications	Rewinding & unwinding
	8795	Dedicated software for point-to-point positions applications	Point-to-point movements applications
	7061	Dedicated software for 1.000 Hz output frequency	High speed
	8091	Dedicated software for position deceleration	Positioning at stopping.
	8600	Dedicated softeware for local / remote smooth changover	Local / remote control
CIMR-E7Zxxxxx-S	8801	Dedicated software for pump squencer applications	Water supply, building HVAC.
	8810	Dedicated software for dynamic current limitation	Industrial pumping
CIMR-V7AZxxxxx-S	9381	Dedicated software for textile wire winding applications	Textile winding
	5167	Dedicated software for kinetic energy backup	Control under power loss conditions
	9640	Dedicated software for dynamic PID change	Variable load
	9646	Dedicated software for modification on main frequency from F.R.	Fine speed adjustments
	9662	Dedicated software for valve cleaner sequences for filters units	Valves
	9666	Dedicated software for ceramics customized functionality	Ceramics
	9676	Dedicated software for textile customiszed functionality	Textile
	9683	Dedicated software for textile customized functionality	Textile

Note:

1. For other CASE sofware examples and ordering information, please contact your standard OMRON Yaskawa supplier.
2. To request a new CASE software customized to meet application specific functionality, please contact your standard OMROM YASKAWA supplier.

② Varispeed

Specifications	Model
3-level control method inverter	Varispeed G7
Flux vector control inverter	Varispeed F7
Lift inverter	Varispeed L7
Pump and fan inverter	Varispeed E7
Sensorless vector control inverter	Varispeed V7

Note: For detailed information, please refer to Varispeed G7/F7/L7/E7/v7 series section.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. I44E-EN-01

In the interest of product improvement, specifications are subject to change without notice.