

## e-Motor®

# Motor Controller for doors and Windows with PowerLine communication (optional)

### Product resume

e-Motor® is an OEM solution for manufacturers of doors, windows, blinds or any other equipment which need motorized control to work. It includes a precise encoder position control to know the position of the equipment and to move it to a desired position. The product is available in two different versions: with and without PowerLine communication. In both versions the electronics includes inputs to do the local control through conventional pushbuttons.

### Description

e-Motor® is designed to automate any equipment like a door, window, etc. with some automatic position demanding. From the signal generated by the motor encoder, the system knows the total number of turns that the motor has done.

To control the direction of the motor, the electronics includes 2 free contact digital inputs that can be connected to any standard mechanical pushbutton.

The electronics includes a slide switch and two local pushbuttons to let the installer configure the end position values of the motor for every direction.

The engine control has as an option a communication system based in remote control through the mains network (PowerLine), and through which received information to move the motor in one direction or the other. To do that, the communication is based in the LonWorks® standard EN14908.

The LonWorks® PowerLine technology provides a reliable and robust communication which meets the CENELEC C-Band (residential and commercial) standard.

The device includes three security based mechanisms to guarantee the correct working environment in case of abnormal detection: overcurrent alarm, overvoltage alarm, encoder failure, timeout protection.

### Markets and applications

Doors  
Windows  
Blinds



### Technical features

Power supply	12Vac, 24Vdc, 95-250Vac – 50/60Hz
Max. Power	1,5W (no motor)
Technology	LonWorks®
Interface	PowerLine (optional)
Communication speed	5,4Kbps (Cenelec)
Modulation	BPSK
Primary frequency transmission	132 KHz
Secondary frequency transmission	115 KHz
Conform Emissions	CENELEC 50065-1
Inputs	2, Right, Left 1, quadrature encoder
Outputs	1 bidirectional motor
Pushbuttons	2, end direction adjust 1, Service Pin (optional)
LED indicators	1 green (supply) 4 status PowerLine (opc)
Alarms	Overcurrent, overvoltage, encoder failure, timeout.
Motors	Valeo 404.722 / 405.063
Working temperature	0°C to 50°C
Dimensions	170x55x40 mm (XYZ)
Weight (with / without supply)	250 gr. / 100 gr.
LonMark Compatible	
CE Mark	

### Product references

CM.803100-000	e-Motor without PowerLine, 12Vac / 24Vdc
CM.813100-000	e-Motor with PowerLine, 12Vac / 24Vdc
CM.503100-000	e-Motor without PowerLine / 95 a 250Vac
CM.513100-000	e-Motor with PowerLine / 95 a 250Vac

### More information

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