



POWER AND INTENSITY OF CURRENT	2
DEFINITION	2



POWER AND INTENSITY OF CURRENT

DEFINITION

Required power

During erection

This is the consumption of power of the retaining/telescoping winch during the erection phases of the crane.

During work

This is the product of the coefficient of the simultaneity of the movements (equal to 0,8) and the sum of the nominal powers (operating powers consumed simultaneously by the three movements) of:

- hoisting winch
- trolley winch
- slewing mechanism

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The value of the required power allows to determine the mains supply for a normal crane use.

Nominal or rated current intensity

This is the sum of the nominal current intensities (working current intensities consumed simultaneously by the three movements) of the following winches:

- hoisting winch
- trolley winch
- slewing mechanism

i

The nominal intensity value allows to dimension the cross-section of the crane supply cable.

Starting current intensity

This is the sum of the current intensities consumed temporarily by these same three movements under the following conditions:

- starting current intensities of the mechanism with the highest current consumption (in general: the hoisting winch)
- nominal current intensity of the two other mechanisms

i

The starting current intensity value allows to calculate the crane supply cable length.



POWER AND CURRENT INTENSITY

Type of winch (400 V – 50 Hz)	Required nominal power (kVA) Minimum requirement for erecting	Required nominal power (kVA) Minimum requirement for operating		Nominal current intensity (A)	Starting current intensity (A)
		Without cab	With cab		
33LVF	15	19 → 31 *	22 → 35 *	64	78

Type of winch (480 V – 60 Hz)	Required nominal power (kVA) Minimum requirement for erecting	Required nominal power (kVA) Minimum requirement for operating		Nominal current intensity (A)	Starting current intensity (A)
		Without cab	With cab		
33LVF	15	19 → 31 *	22 → 35 *	53	65

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In case of cranes equipped with a frequency converter the differential circuit breaker must be compatible with this equipment according to the rules in force of the operating place.

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* For the configuration of the power limitation, see screen 30 – Maintenance menu of the processing unit.



PROCESSING UNIT / Maintenance menu