

Implementing the EuP framework directive 2009/125/EC for electrical motors, starting on 01.01.2015, all pumps with motors  $\geq 7.5$  kW are supplied exclusively as motor efficiency class IE3.

Due to the construction of the motors, the inrush currents of the new IE3-motors are significantly higher, compared to the previous models in IE2.

The inrush currents of the new IE3-motors lie in a range of  $I_i = 9-14 \times I_{rate}$ .

In most of the cases, the switching devices will have to be adapted in order to avoid possible maloperation when starting. The manufacturers of switching devices already offer appropriate switching devices for IE3-motors.

## Further information from manufacturers:

Siemens:

[http://w3.siemens.com/mcms/topics/en/application-consulting/ie3ready/ie3-industrial-controls\\_motors/Pages/Default.aspx](http://w3.siemens.com/mcms/topics/en/application-consulting/ie3ready/ie3-industrial-controls_motors/Pages/Default.aspx)

Eaton:

<http://www.eaton.eu/Europe/Electrical/ProductsServices/AutomationControl/SwitchingProtectingDrivingMotors/IE3ready/index.htm?wtredirect=www.eaton.eu/IE3>