

Linear Motors with ATEX and IECEx certification



Wherever explosive gases or vapors are mixed with air, or flammable dust can occur, special electrical drives are required.

LinMot series P01-48 motors are now certified for this purpose as EX-protected motors in accordance with Directive 94/9/EC as of October 2015. Device classifications 2G and 2D mean that the devices can be used in an explosive atmosphere consisting of gases, vapors, mist, or dust. The drives are thus optimally designed for use in printing machines, painting lines, plastic-processing machines, or in the chemical or pharmaceutical field.

The motors have been purposefully designed to be very compact and do not have unnecessary edges, corners, holes, and threaded connections. This avoids locations where explosive material can collect and minimizes the risk of a potential ignition source due to uneven heating. Completely encapsulated in stainless steel, they do not need any seals. All joint connections are welded.

To completely seal off the motor, the windings and other internal components of the stator are potted in epoxy resin. This guarantees optimal protection of the motor and eliminates the risk of electrical arcing. LinMot ATEX motors are planned in this way, that except of the motor and supply, no further elements need to be certified in the hazardous area.



Both sizes, P01-48x240 and P01-48x360, are available now from LinMot.

- » Welded connections
- » Completely encapsulated (IP69K)
- » Optional integrated water cooling
- » Additional, redundant temperature monitoring
- » For use in protection zones 1 / 2 (gas)
- » Suitable for use in protection zones 21 / 22 (dust)

Stroke up to	mm	980
Max. Force	N	496-888
Nominal Force	N	241-360
Peak Velocity	m/s	3.4
Peak Acceleration	m/s ²	440
Repeatability	mm	±0.05
Stator Length	mm	345-465
Slider Length	mm	500-1400