



Motor Technology News - Summer 2013

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New explosion-proof motors

Moog has extended its range of ATEX and IECEx compliant brushless servomotors, for use in potentially explosive atmospheres, from 25Nm stall torque up to 66Nm. The peak torque has increased from 60Nm to 240Nm and maximum power ratings have increased from 4.4kW to 8.3kW.

The range now includes 3 frame sizes 3, 5 and the new size 6 in ignition class levels T3, T4, T5 and T6. Options include a range of feedback devices including resolvers and incremental and absolute encoders, holding brakes, keyways, etc.

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MOOG Explosion Proof servo motor range covers 3 frame sizes, with stall torque from 1.6 to 66Nm and peak torque of up to 240Nm

A note of caution when repairing motors

At Motor Technology we deal, almost exclusively, with servo motors and often receive calls for assistance when things go wrong. In a recent story in Motor Technology News we pointed out the need to get the motor phasing right. It doesn't end there.

Typically motor repairs are for mechanical damage like worn bearings, faulty holding brakes, or a burnt-out winding. Most providers are likely to handle these without any problem, the trouble is that only specialist repairers will have the facilities to carry out a full functional test of the servo motor before it is returned to the you.

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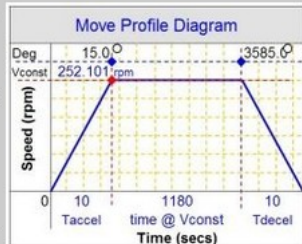
Servo motor with resolver

Know your Duty Cycles

The International Electrotechnical Commission (IEC) has eight classifications for duty cycles to designate a motor's operating conditions. It's extremely important to know the differences and to note what mode of operation each rating refers to. Establishing the duty cycle of a motor and drive for a given application will help you save costs.

When specifying new motors it's worth talking to a supplier that can give advice on such matters to ensure you get the performance required without paying over the odds. We take a look here at all eight classifications and what they mean.

[Click here for more information](#)



Completely bonkers!

Putting together each new issue of MTN is always great fun, especially when we get on to the puzzles and the other fun stuff to hopefully brighten up your day. So when our editor came across this hairbrained invention a few days ago, we just knew we had to share it with you!

How on earth this never caught on we'll never know. How many times have you been bed-ridden, struck down with the dreaded lurgy, bored stiff because there's nothing on TV and you've read all your books? If only someone had invented a piano that you could play while lying on your back in bed, without even needing to sit up! We've all thought that haven't we? Oh, if only! You could just lie there and work your way through Beethoven's Piano Concertos one by one, or, just make an annoyingly loud noise whenever you wanted something! It would be so cool!

Our engineering department thinks that we could make an automated version of this that would slide perfectly into place over the bed at the press of a button. So, we're inviting readers to come up with their own designs, e-mail them to us, and the ones that we like the most... No, seriously, we're just kidding! Wouldn't you just love to see this on Dragons Den though?

Watch out for the next issue of MTN as we've got more completely bonkers stuff for you!



A touch of class

Save around 30% in application programming time using the new Trio UniPLAY touch-screen panels

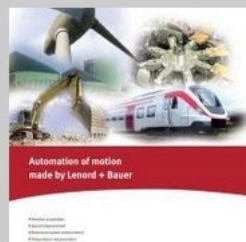
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Stepper drives now with AC input

LAM Technologies have further enhanced their micro-stepping drive range enabling connection direct to the AC output of a suitable transformer.

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Great New Brochure from Lenord + Bauer

Lenord + Bauer, who we have represented since the early 1990's, has just published a new 40 page brochure covering its full range of automation, control and measurement technology.

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Puzzle Corner: The Cunning Spy

The King's guards have captured a cunning spy who has managed to operate with impunity for years. He is brought before the Court and the King demands that the spy make one statement that will seal his fate.

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