

[ISSUE 2] APRIL 07

NEWSROOM

INDUSTRIAL SWITCHGEAR & AUTOMATION SPECIALISTS



NHP

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INDUSTRIAL SWITCHGEAR & AUTOMATION SPECIALISTS

EDITORIAL

What is the True Spirit of Partnership?



Lloyd Thomas
Managing Director/CEO



A business like NHP does not operate autonomously. Aside from our 600 staff and our thousands of customers around the world, this company represents, what I believe, to be the very best in international partnerships. Successful relationships with world-respected supply line partners stand us apart in the Australasian electrotechnology marketplace.

NHP's recent "Discover Our World" exhibition and conference in Auckland made me and I'm sure everyone else at NHP, very proud. The event was a highlight in the evolution of the NHP business and we were especially delighted to be able to share the stage with some of our closest, most long standing supply line partners.

Significantly, the expo provided us an opportunity to highlight our relationship with global motor control brand, Sprecher + Schuh.

But just as importantly, we were pleased to prove our commitment to WAGO (masters of I/O connectivity), the Italian variable speed drive kings Elettronica Santerno, and circuit breaker master builders, Terasaki.

Each of them a name synonymous with quality, innovation and leadership.

As CEO and Managing Director of NHP, I am very well aware of our position in the electrical industry supply chain. Our partnerships are a vital part of that chain.

While we are aware that not all technologies are equal and that Australasia's climate and industrial conditions present some of the most challenging in the world, it is our job to provide world's best solutions so that our customers can operate as effectively and as competitively as possible.

Our strict regime of product selection means that NHP puts its money where its mouth is - we maintain an ongoing and relentless global product search program to find the very best electrical products the world can offer. Selected technologies are sourced, trialled, tested and tailored to meet the most arduous conditions.

Once we have commenced with a supply line partner, the relationship does not end there. We regularly, for example, work with our partners on research, development and innovation to make sure we deliver the best the international market has to offer to our Australian and New Zealand customers, taking into account "Australasian specific" requirements.

All products are fully supported by NHP's expert region-wide staff, our customer training programs, product documentation regime, product spares and technical support programs.

While we, naturally, continue to support 'Australian made, Australian owned' products and services wherever we can, our focus remains global.

Please take some time to read the profile of NHP's Discover Our World exhibition on page 5 of this issue of Newsroom. The story and photos show an event where the spirit of partnerships was well and truly evident.

NHP's fifty-plus brand portfolio is constantly delivering results for our customers. It is our supply line relationships which are the cornerstone of what we do. Quite simply, we aim to provide our customers with the best of the best. What you want, when you want it and where you want it!

Recognising Industry Excellence

NHP Electrical Engineering Products (NZ) Ltd congratulates SMARTlift Load Monitoring System Steelbro New Zealand Ltd as the winner of the Electrical and Systems Category Award of the 2006 New Zealand Engineering Excellence Awards (NZEE).

NHP was one of eight sponsors to award achievement in various industry areas.

The awards ceremony was held at TE PAPA in Wellington late last year. The 420 engineers and guests celebrated the innovation, creativity and contribution of New Zealand engineering during a black tie dinner.

The evening was hosted by Chris Laidlaw and attended by a number of politicians, including Prime Minister Helen Clark, Ministers Clayton Cosgrove and David Cunliffe, and MPs Ashraf Choudhary, Nick Smith and Phil Heatley.

In its second successful year, the New Zealand Engineering Excellence Awards aims to support engineering professionals of New Zealand. The awards are presented in two major areas: Individual Awards, that recognise leadership, innovation, entrepreneurship and our young engineers; and Category Awards, which recognise achievement in the various industry areas, together with a Supreme Award for the best of the Category winners.

"NHP was proud to sponsor the Electrical and Systems award, as SMARTlift's Load Monitoring System is an innovative enhancement in the capability of its side-lifting crane and, as such, is a leader in its field," says NHP New Zealand Manager, Craig Vallance.



"The solution was recognised for engineering excellence and developed at a relatively modest cost," he adds. "The operator can move rapidly when well inside the envelope boundaries, but more slowly near the boundaries to allow for dynamic effects."

Craig says that NHP is very proud to be associated with the awards program.

"It is important to recognise excellence in the field of Electrical and Systems," he says. "And this award encourages future development in innovation and improvements to the products available to the industry".

For information on the 2007 New Zealand Engineering Excellence Awards (NZEE) or to download an entry form visit www.nzeeawards.org.nz

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NHP

COVER STORY

Discover Our World



NHP's Discover our World exhibition, held during March in New Zealand, has been lauded by 550 staff, partner and customer guests as one of the best events they've ever seen.

The magnificently renovated Auckland War Memorial Museum was host to the truly international exhibition - combining a series of high level presentations, informative seminars, interactive trade displays and hands-on workshops. And all themed to deliver the latest in electrical innovation from NHP and our global network of partners.

Staged by a collaboration between NHP's Marketing Department in Melbourne and all of our New Zealand staff, the objective for the event was very straightforward.

"Sprecher + Schuh had been out of the New Zealand market for some 12 years and in that time they have consolidated their position as a world powerhouse brand in the electrical industry," explains NHP's New Zealand Manager, Craig Vallance. "Our goal was to re-introduce them, and ourselves, to the local market."



The launch marks a milestone for NHP which currently enjoys a 35 percent share in Australia of the low voltage motor control component market largely thanks to Sprecher + Schuh, "With the latest Sprecher + Schuh ranges consolidating our comprehensive switch-board options, we are now offering more complete panel solutions. Sprecher components are a great companion to our Cubic modular system. We now have the most extensive, technically advanced and reliable offering on the market."

With Sprecher + Schuh back in the New Zealand portfolio, NHP can boast a complete customer service offering in Motor Control.

"We are now in the position of being able to provide our New Zealand customers with an alternative supplier," explains Craig. "We're very pleased to encourage a spirit of healthy competition!"

NHP - Sprecher's 'Partner of Choice'

President of Sprecher + Schuh, Mike Dudas, says that due to its success and experience in distributing the brand in Australia, NHP was the partner of choice to reintroduce these products to New Zealand.

"The people at NHP have a long association with our brand," he explains. "They offer extensive product knowledge and expert technical support. We enjoy a very close working relationship with the team and their involvement at all levels of our business including product development".

The Discover Our World exhibition not only re-introduced the Sprecher + Schuh range, it also profiled WAGO, Elettronica Santerno and Terasaki's TemBreak2.

"The day provided us an opportunity to highlight our relationships with other key international supply chain partners - WAGO, leaders in I/O connectivity; the Italian variable speed drive kings Elettronica Santerno, and circuit breaker master builders, Terasaki," adds NHP's Craig Vallance.

He also explained the Discover Our World key message was not only around product offering, but the brand, the systems and the credibility of NHP.

"We've not only got the product, we've got the 24x7 technical support, the customer focus and the company infrastructure which NZ customers demand," he said.

"We have two offices, Auckland and Christchurch, and four regional representatives in both North and South islands. So no matter if a customer comes from mining, dairy, viticulture, construction or commerce, we've got just what they need right where they need it."

Craig said that Discover Our World was also an invaluable way to showcase the depth of NHP talent in NZ. "Our technical expertise really is second to none - we're delighted to show it off."

From NHP staff to supply line partners, to industry media and customers, the day was much appreciated by all guests.

"NHP is thrilled with the results and very much looks forward to making our presence felt in the New Zealand market," says Craig Vallance.

In their own words ...

Over 550 people attended NHP's 2006 Discover Our World exhibition and here's what some of them had to say ...

"NHP, Sprecher + Schuh and other supplier partners achieved our mission objective - to introduce into the New Zealand marketplace a value add solutions based distributor which set the new standard for quality products, application assistance, technical expertise and service capabilities via a network of true professionals. Sprecher + Schuh is proud to be part of the NHP team in New Zealand."

President, Sprecher + Schuh, Mike Dudas

"The most welcome feedback we received from customers was that they had never seen anything like this in NZ from any of our competitors."

NHP - National Engineering Manager, Alex Coslovich

"I was very impressed with the turnout, which I believe speaks to NHP's reputation and the surprisingly high brand recognition the Sprecher + Schuh brand still has in New Zealand. I was also impressed with the level of interest by the attendee's. My interaction with the attendees, while limited, showed they attended the event with a purpose, they had questions they wanted answered and were not just killing time."

Rockwell Automation - Business Team Leader - Electronic Motor Protection, Steve Haensgen

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President, Sprecher + Schuh Mike Dudas, Managing Director, CEO-NHP, Lloyd Thomas and New Zealand Manager, Craig Vallance



Auckland War Memorial Museum



Hands on workshops were held throughout the day



Special guest speaker, Sir Richard Hadlee, arguable cricket's greatest allrounder, engaged the audience with his professional yet entertaining speech on business and sport - stressing "there is no place for mediocrity in either".

INDUSTRIAL SWITCHGEAR & AUTOMATION SPECIALISTS

NHP ONLINE

View micro sites



www.nhp-nz.com/s+s

A solution based website that covers control and protection solutions



www.nhp-nz.com/climatecontrol

A solution based website covering enclosures, fans and heaters with online calculators.



www.nhp-nz.com/cubic

A solutions/product site showcasing the Cubic Modular Switchboard range, plus information on partners and training.



www.nhp-nz.com/tembreak2

Product information, a 3D interactive display and video clip.

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NEWSROOM NEWSLETTER
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NHP – Live and Online

As our partners, our suppliers, our customers and our communities all become more internet savvy, it's easy to see that the future of information is online.

At NHP, we use internet information and e-communications in a range of immediate, cost-effective and tailored ways to support our more traditional, printed forms of communication.

"Our new hierarchy of micro websites means that visitors can directly access up to the minute information more quickly and more simply than ever before," explains NHP National Manager – Marketing Communications, Andrew Theodore.

The NHP corporate website is split into two separate sites – one for the New Zealand market and one for Australia.

The homepages then provide quick links to other useful websites within the NHP family within three categories:

1.The NHP eCatalogue Product Search outlines 23,000 items and provides downloadable product information.

2.The NHP Online Resource Centre provides downloadable CAD, technical data, manuals, software and information on over 40 brands plus a special newsletter for registered users.

3.The eCatalogue Online Ordering Portal – available to registered users to view thousands of NHP products at their pricing levels, secure quotes and place orders.

A series of specialist product micro sites go into detail on popular NHP product categories such as **Sprecher + Schuh** - Motor Control and Protection, **Electronica Santerno** - Variable Speed Drives, **Bernecker + Rainer** - Industrial Automation, **CUBIC** - Modular Switchboard

"In order to meet the many and varied requests we receive for information and interaction, we've re-vamped the website so that it meets more needs more specifically."

Solutions, **Terasaki** - Circuit Breakers, **Sprecher + Schuh** - Motor Protection Relays, Enclosures and Termination Solutions.

Just launched is the NHP photo gallery at www.nhp-nz.com/photos, where you can browse and download photos from NHP customer events.

"NHP has a very broad range of audiences," explains Andrew. "From our staff all around Australasia, to customers, supply partners, our industry and government at all levels."

But, he says, while NHP is investing strongly in the online environment because it is immediate and cost effective, the company is continuing to produce materials in more traditional formats as well.

"The website development work is not replacing other means of communications, it is rather a complementary customer-driven initiative which we feel the need to continuously invest in.

"As business communications happen more frequently online, where appropriate NHP will continue to take advantage of technology to better communicate, inform and transact."

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or visit www.nhp-nz.com/websites to view all NHP micro sites or to watch short videos showcasing NHP's products and facilities.



www.nhp-nz.com/industrialpc

Highlights the robust B&R range of industrial PCs with an online selection tool.



www.nhp-nz.com/santerno

Highlights the Electronica Santerno Sinus Penta, Sinus Nano & Sinus Micro ranges of Variable Speed Drives.



www.nhp-nz.com/cet5

Advanced Motor Protection Relay information, tools and downloads.



www.nhp-nz.com/photos

Images of NHP customer events – download and save images.

NHP

POWER DISTRIBUTION

Changeover is a breeze with TemLogic 2

The new TemLogic 2® TL101 automatic transfer switch controller, dramatically simplifies the installation, configuration and use of such devices. The unit's unrivalled ease-of-use is complemented by its rich operational functionality and flexibility, plus advanced data-logging capability and fieldbus connectivity.

An essential safeguard in applications where loss of power is operationally unacceptable (such as hospitals, remote sites and continuous processes), the ATS monitors and provides automatic switching between alternative power sources. Working in tandem with the Terasaki 'Tembreak' moulded-case circuit breaker (MCCB) families, plus the renowned Terasaki AR series of air circuit breakers, the TemLogic 2 TL101 can support power supplies ranging from 125 Amps up to 6300 Amps. Switchover modes supported include generator-to-generator, utility-to-generator, and utility-to-utility.

"The TemLogic 2 TL101 is by far the most user-friendly and intuitive ATS the NHP product team has seen to-date," said NHP Support Engineer, Nicholas Burley.

Installation-wise, the TemLogic 2 TL101 is 'plug-and-play' at its most perfect. The system comprises just three elements: A 144 mm by 144 mm by 94 mm deep door-mount controller unit; a panel-mount interface panel (optional); and a changeover circuit breaker pair. The optional interface panel provides the safe link between the circuit breaker pair, and comes complete with seven pre-terminated cables, each fitted with multi-pin plug connectors that simply plug into the back of the controller unit. The entire assembly can be installed and ready-to-go in a fraction of the time of conventional changeover systems.

The TemLogic 2 TL101's front-of-panel is clean and operationally intuitive. Two three-digit displays (one for each supply line) are each accompanied by a scroll

button located beneath. On power-up, each display can immediately be scrolled through all six line 'line-to-line' and 'line-to-neutral' voltage measures, plus supply frequency.

The ATS offers a great deal more-both operationally and display-wise-by further configuration. Simple key combinations allow the user to quickly step through eight separate configuration menus, allowing precise and accurate tailoring of the electrical conditions under which the unit will switch power supplies.

"Every single parameter can be configured from front of panel," said Nicholas. "No software, external PC or back-of-panel modifications are required. The NHP engineering team has pre-configured the TemLogic 2 TL101 with default values that best match Australasian conditions."

The TemLogic 2 TL101 offers enhanced connectivity with the outside world, via its on-board MODBUS serial communications port. This provides easy connectivity with SCADA and PLC systems for remote monitoring, configuration and interrogation. In addition, the unit includes advanced data-logging functionality. The unit's built-in retentive memory retains extended records of recent switching events and power system status records for the most accurate 'post-mortem' diagnosis and analysis.

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Trademarks: TemLogic 2® and TemBreak 2® are registered trademarks of Terasaki Electric Co. Ltd.



TemLogic 2 transfer switch system



TemLogic 2 TL101 controller



TemCurve 6-selectivity, simply sorted!

NHP's latest aid to power distribution system design is TemCurve 6 software that dramatically simplifies and streamlines the production of accurate selectivity and fault-level studies. This powerful new design-tool provides designers with the widest range of power system selectivity analysis and reports, via a dynamic Windows(r)-based development environment.

TemCurve 6 is a major rebuild of its predecessor-the renowned and widely popular TemCurve 4. "We have rebuilt TemCurve from the ground up," said Wes Cassidy, NHP's National Application Engineering Manager. "As a result, TemCurve 6 provides even more information and the most intuitive development environment."

In addition to conventional time-current plots, TemCurve 6 provides reports of device let-through energy (I^2t); switchboard fault-current levels; and assessment of appropriate selectivity and cascading of each device in the single-line diagram (SLD). TemCurve 6 also provides bill of material listings of all protection devices, plus a listing of all device settings. It also supports motor protection coordination, by automatically selecting the appropriate breaker/contactor/overload required to achieve the desired coordination (either Type 1 or Type 2).

Selectivity analysis with TemCurve 6 is a simple three-step process:

Step 1: Build the SLD within TemCurve 6

Step 2: Systematically review the time-current curves, let-through energy curves, and selectivity values, and adjust the devices as necessary

Step 3: Print the final reports and materials lists

"TemCurve 6 allows the user to make changes 'on the fly'. You simply work your way up through the SLD from bottom to top, assessing the curves, reviewing selectivity, then adjusting protection settings and devices as you go. It's particularly dynamic and intuitive."

TemCurve 6 also exports the SLDs to AutoCad, providing the foundation for final SLD diagrams.

TemCurve 6's expansive database includes all Terasaki moulded-case circuit breakers, air circuit breakers, miniature circuit breakers and residual current devices. It also includes Sprecher + Schuh bimetallic and electronic motor protection devices, SOCOMEC load-break-switches, and NHP HRC fuses, plus generic cable data, HV fuses and protection relays. Importantly, this database-and TemCurve itself-is being continually expanded and improved. Internet-based updates are quickly and easily obtained from within TemCurve 6 by simply clicking the 'Internet' link within the package.

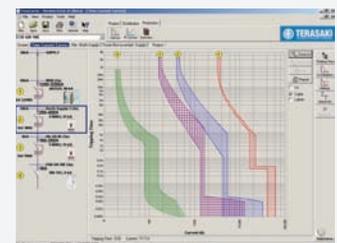
TemCurve 6 is available free of charge as a download from www.nhp.com.au/tembreak2/temcurve6 or on CD from your local NHP sales and support office.

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Trademarks: Windows is a registered trademark of Microsoft Corporation.

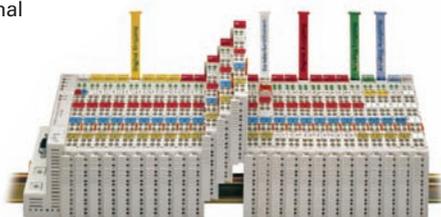


PRODUCT REVIEW

WAGO I/O-MODULAR AND COMPACT

Recognised industry-wide as the most innovative fieldbus I/O system for industrial, manufacturing and process automation applications, the WAGO-I/O-SYSTEM 750 is a modular decentralised I/O system. Uniquely compact and incorporating 64 I/O modules, the system supports all preferred fieldbus protocols and can be adapted to almost any application.

The WAGO-I/O-SYSTEM 750 permits decentralised control, reduced fieldbus transmissions. It also offers faster response times and pre-configured responses in the event of fieldbus failures. Assembly is quick and easy with rail-mountable cage clamp technology. This also provides vibration-proof and maintenance-free external connection.



HARD RESULTS WITH SPRECHER + SCHUH PCS & PDS SOFT STARTERS

The Sprecher + Schuh PCS (1.1 kW to 45 kW) and PDS (1.1 kW to 75 kW) soft-starters form part of the Sprecher + Schuh Advanced Control System 'ACS', a suite of modular and interchangeable circuit breakers, contactors, busbar systems, side-mounted auxiliary contacts and accessories. Unlike other compact soft-starters, the PCS and PDS offer control of all three phases, in-built electronic motor protection with adjustable trip class, and a selection of starting and stopping profiles. Both also feature built-in bypass contactor and a multifunction fault and status indicator.



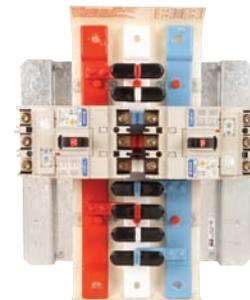
The simple-to-use design philosophy incorporated in the PCS and the PDS offers quick and easy set-ups via a combination of DIP-switches and potentiometer.

Don't be fooled by the lack of a keypad, these soft starters provide multiple starting and stopping modes that cover the widest range of industrial applications. These modes include 'soft-start', 'current-limit', 'kick-start', 'coast-to-stop' and 'soft-stop'. The internal bypass contactor reduces cabinet heat, making these products ideal for high-density installations and, in turn, further reduces installation costs.

HEAVY-DUTY AND HIGH-CURRENT TEMWAY CHASSIS

In support of the new TemBreak 2 MCCB range, NHP has introduced two new TemWay mounting chassis—the 65 kA rated XT chassis, and the high-current CHC chassis.

XT Chassis: As the new TemBreak 2 MCCB range includes 125 and 250 AF MCCBs fault-rated up to 65 kA NHP has developed a new heavy-duty chassis type that is rated with an lcv of 65 kA: the TemWay XT. The chassis includes main busbar sizes from 630 A through to 1250 A. The 1250 A main busbar rating ensures that all XT chassis can be offered up to 72 poles (irrespective of busbar rating), and can also support either 2 x 400 A or 2 x 630 A MCCBs on a separate extension chassis. The XT range is available in either double-sided or single-sided format. Three or four pole versions are also optional.



CHC high-current chassis: The new CHC chassis is a very flexible chassis designed to support high-current applications. Developed in response to customer feedback, the chassis is available in either double or single-sided, three or four pole formats. With main bar ratings of 1600 A or 2200 A, the CHC chassis has an lcv of 65 kA as standard. MCCB sizes can range from 125 A single-pole, through to 1250 A four-pole.

NEW KATKO SINGLE POLE ISO-EASILY INSTALLED

NHP announces the latest addition to the company's comprehensive range of Katko ISO safety isolating switches—the new 240 V single-pole ISO. Available in current ratings of 25 A and 40 A, the new 240 V single-pole Katko ISO is ideal for most commercial and light-industrial single-phase isolation applications.

Compact by design and screw-mountable, the new single-pole Katko ISO is easy to install. Five cable entry options, plus cable terminals that accommodate conductors up to 16 mm² in size, provide technicians with high levels of installation versatility. Standard 'snap-on' ISO auxiliary contacts help speed up installation, while offering increased levels of switching functionality.



Reflecting the quality, reliability and ease of installation of the existing three, four and six pole Katko ISO switches, the new single-pole Katko ISO presents users with increased choice in plant-floor safety.

A space-efficient 'U2' IP 66-rated polycarbonate enclosure offers premium UV, chemical and ingress protection, while optional safety interlocks help prevent accidental removal of the switch cover in the 'on' or 'locked off' position.

Sprecher+Schuh CA 7 extends its reach

The CA 7 contactor series from Sprecher+Schuh is the centrepiece of the company's 'plug-and-play' motor control solution set—the world-renowned 'Advanced Control System' (ACS). The seventh generation contactor in the Sprecher+Schuh line, the CA 7 represents the most modern and flexible power contactor available today.

The Sprecher+Schuh brand enjoys an enviable reputation across Australasia, explained Harry Fletcher, NHP Business Manager Motor Control. "Sprecher+Schuh has always been the motor control 'brand-of-choice' in Australia, and now increasingly so in New Zealand. Since the Australian mining boom of the 1960s, Sprecher+Schuh has proven its superior quality in installations across the country."

This quality is at the heart of the Sprecher+Schuh CA 7 contactor series. The compact CA 7 contactor family supports applications up to 45 kW over ten current ranges, all in just four frame sizes. The two smallest frame sizes (at 45 mm wide) accommodate loads up to 18.5 kW. Exemplifying the proverb "good things come in small packages", the CA 7 provides unrivalled functionality and flexibility. The range is tested and approved Type 1 and Type 2 short-circuit coordination, is available in three and four pole variants, and fully reversible DC or AC coils. Reliability is also built-in, with the CA 7 incorporating high breaking capacity contacts that are both positively guided and mechanically linked. As a result, the contactor boasts a mechanical life in excess of 10 million operations, and an electrical life exceeding one million operations.

But it is in the area of application flexibility and modularity that the Sprecher+Schuh CA 7 really excels. "The CA 7 series boasts over 100 different clip-on accessories, such as timers, auxiliary contact units, coil-mounted suppressors, latches, interlocks and so on," said Harry. "This accessory range is continually expanding. As a result, the CA 7 can truly be labelled as a universal contactor."

An important recent addition to the CA 7 accessory range is the CEP 7 solid-state overload relays. This second-generation electronic motor protection relay provides unrivalled performance at a competitive price, making it the ideal replacement for traditional bimetallic electromechanical overload relays.

"The advantages of the latest-generation CEP 7 solid-state motor protection over traditional bimetallic solutions are almost too numerous to mention," said Bob Kostic, Product Manager -Sprecher+Schuh. First - and foremost is the wide current adjustment range. Where traditional bimetallic solutions provide a typical adjustment range of 1.3:1, the CEP 7 provides a range of 5:1. "The CEP 7's maximum adjustment of around five times the minimum means that the number of units required on any site is dramatically reduced," said Bob. "For example, around 20 bimetallic models are required to span a 90 Amp range. The same can be achieved with just 13 CEP 7 models." In addition, the CEP 7 provides greater speed and reliability than traditional overload relays, superior phase-failure protection, and a dramatic reduction in energy consumption, minimising panel temperature rise.

New for 2006 is the enhanced CEP 7—the CEP 7-E series—which provides even greater flexibility and adaptability than its predecessors. While the standard CEP 7-ED has a fixed 'class 10' tripping performance, the CEP 7-EE provides DIP-switch selectable trip classes (class 10, 15, 20 and 30) for those applications requiring longer motor run-up times. In addition, the CEP 7-EE offers a choice of reset options—either manual reset or fully automatic.

The CEP 7-EE also supports a suite of side-mount accessory modules that extend its performance further. These accessory modules currently include a jam/stall detection device, a remote reset device, and a DeviceNet communications interface module. Soon to be added to this suite includes a thermistor protection relay module and an earth-fault detection unit. "The CEP 7-EE is an exciting addition to the CA 7 family—and the ACS solution set as a whole," said Bob. "It underscores NHP's and Sprecher+Schuh's joint commitment to providing truly flexible and powerful motor control solutions."

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CEP 7 Overload Relay



CEP 7 Overload Relay



CA 7 Contactor



Enclosures and Termination

Spanning 200 pages-plus, the fully-illustrated first edition NHP Enclosures and Termination catalogue delivers a comprehensive guide to the broadest collection of enclosure and terminations products available in New Zealand and Australia. Featuring electrical housing and cabling solutions and accessories from Eldon, Zanardo, Cosmotec, Stego, Iboco, WAGO and Sprecher + Schuh, all exclusive to NHP—the scope and diversity of the catalogue offering exemplifies NHP's continued commitment to meeting the unique needs of local industry.

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INDUSTRIAL SWITCHGEAR & AUTOMATION SPECIALISTS

INNOVATIONS



* Wieger W. Westra is ELDON Group International Key Account Manager & Senior Product Manager.

Trademarks: MULTI-FLEX is a registered trademark of Eldon Group.

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Hobart

Eldon floor-mount: total lifecycle savings

The unique component-based design of Eldon's advanced floor mounted enclosures provides users with maximised panel space, reduced assembly times and total lifecycle cost savings. * Wieger W. Westra writes.

Home to a variety of electronic components, equipment and devices, industrial enclosures guard what is essentially the lifeblood of modern industrial operations. Designed to protect electrical/electronic equipment from the environment and personnel from accidental injury high-performance industrial enclosures are crucial in keeping businesses online.

Users in the industrial marketplace often assume incorrectly that one enclosure is the same as the next. While similarly-priced enclosures may appear identical at first glance, their performances and value to the business can vary dramatically.

The purchase price of an industrial enclosure is not an accurate indicator of its 'true' cost. Labour and material costs associated with enclosure assembly, installation, modification and ongoing maintenance, all impact on the 'true' or 'lifecycle' cost. A common and integral component of modern project evaluations, 'life cycle cost analysis' represents a key differentiator when choosing an industrial enclosure.

Inherent flexibility

The Eldon MULTI-FLEX® range of floor mounted industrial enclosures from NHP, allows straightforward assembly and installation, plus trouble-free modification and maintenance instrumental in realising savings throughout the life of the enclosure.

A unique enclosure solution, the Eldon MULTI-FLEX range comprises a component-based frame construction, a mounting plate, plus a selection of complementary accessories. These include shelves, brackets and profiles, which all simply slide, slot or clip into position. The user-friendly MULTI-FLEX system requires a minimal number of components, reducing assembly complexity and enables straightforward installation, which in turn, saves on labour costs.

Rated up to IP 66 and available in multiple frame sizes with single and double door construction, the MULTI-FLEX range of floor mounted enclosures provides designers with unprecedented levels of assembly flexibility.

Better by design

A distinguishing feature of the MULTI-FLEX range is the sophisticated frame design. Eldon's designers have formulated an enclosure concept that uses fewer parts than competing component-based enclosures. The simple yet innovative design actually maximises the available panel space within the enclosure.

The MULTI-FLEX's frame is provided with an integrated hole pattern. All MULTI-FLEX accessory components feature a matching standard hole pattern that simplifies assembly and permits the customisation of the enclosure's internal layout. Competing brands often complicate the assembly of the enclosure's internal arrangement, requiring the installation of extra profiles in order to accommodate certain enclosure internals and accessories.

Unlike competing enclosures, the Eldon MULTI-FLEX range features a fully laser-welded frame, providing the extra strength needed to house increased amounts of electronic equipment. The patented 60 degree 'double bend' construction of the enclosure components delivers superior levels of rigidity and load support.

This technically advanced and patented component profile has superior strength characteristics., while the unique design of the profile means the mounting plate at the back of the enclosure sits flush with the side panels. This means that users are not forced to use filler-plates or special proprietary accessories.

In an attempt to match the strength and rigidity of the Eldon MULTI-FLEX design, competing enclosure manufacturers typically employ bulky frame

components that encroach on the enclosure's interior diminishing available panel space.

The outlying hole pattern on the front face of the Eldon MULTI-FLEX enclosure frame further maximises the available panel space within the enclosure. The pre-drilled holes enable the easy mounting of doors and panels without infringing on the enclosure's valuable internal space. Door locking mechanisms have also been specifically designed to ensure they do not have an impact on the interior of the enclosure.

One-person assembly

Developed with the site installation crew in mind, the Eldon MULTI-FLEX range of enclosures offers straightforward assembly with the lightweight construction of components making them easy to handle. As the entire unit breaks down into manoeuvrable components, the entire Eldon MULTI-FLEX enclosure can be assembled by just one person using simple tools dramatically cutting labour and equipment costs.

Some competing enclosures require the drilling of holes during assembly and installation., compromising the strength of the enclosure frame. The standard hole pattern, consistent throughout the range of Eldon MULTI-FLEX enclosure components, removes the need for drilling. This ensures the frame maintains its inherent strength and stability, while facilitating rapid assembly.

For some industrial applications, users often 'marry' a number of individual enclosure frames to form a larger single enclosure. In order to maintain the enclosure's IP rating, careful alignment and sealing between each frame is required. The Eldon MULTI-FLEX auto-liner bracket does just that. It is fitted to the base of the frame and ensures the frames are aligned in all three axes.

Eldon MULTI-FLEX enclosures are supplied with the mounting plate packed on the outside of the package, allowing immediate access to the mounting plate, which is often the first component required in the assembly process.

Modification made safe

The Eldon MULTI-FLEX range of floor mounted enclosures ensures that enclosure modification and maintenance are made simple, straightforward and safe.

Equipped with a removable roof plate on all enclosure types, the Eldon MULTI-FLEX makes top entry cabling easier. Competing enclosures that feature welded roof plates require the drilling of cable entry holes to be performed 'in position', increasing the potential for panel damage. The removable roof of the Eldon MULTI-FLEX range means that drilling and other modifications can be performed prior to installation. This ensures the enclosure interior and equipment are not subjected to the debris and vibration associated with such tasks when undertaken 'on-site'.

The only moving parts of standard industrial enclosures are the doors. Frequently opened for routine maintenance, it is crucial that the doors maintain their alignment and sealing ability. An in-built safety system in the MULTI-FLEX's 'door catch', has been designed to prevent the door closing if it is not square or properly aligned with the frame. This safety feature helps maintain the enclosure's IP rating.

A uniquely future proofed solution, the Eldon MULTI-FLEX range of floor mounted industrial enclosures provides users with maximised panel space, reduced assembly times and unrivalled lifecycle savings. With unmatched strength, simplicity and flexibility, the Eldon MULTI-FLEX range is in a class of its own.

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