



**EMERSON**<sup>™</sup>  
Industrial Automation

## Unidrive

The World's  
Favourite Elevator Drive

2.2kW to 200kW





## OSMA (Germany)

**Control Techniques' Solution:**  
Unidrive SP with SM-CAN option controlling gearless elevator

**Benefits:**

- Reduced overall system costs
- Easy set-up and commissioning through customised elevator and PC management software
- High performance and failsafe operation with ultra smooth ride comfort

“We have complete confidence in both the products and in the outstanding support we get from Control Techniques. If CT promises to do something, they never fail to deliver!”

Klaus Hebbeler, Technical Manager, OSMA

## Unidrive SP - one AC drive to fit your motor selection

Control Techniques have years of experience designing drives for elevators, and the result is the AC drive specially rated to give optimum elevator performance. Unidrive SP is a thoroughbred drive for elevator applications; the smooth vector control gives a high quality, low noise, jerk free ride.

Unidrive SP has a flexible integration policy that ensures it is open to all elevator controllers.

- The drive accepts 12 different feedback devices including Incremental, SinCos, Endat, Hiperface encoders and Resolver
- Temperature controlled ventilation fan speed for silent operation
- High switching frequency (up to 16kHz) for quiet motor operation

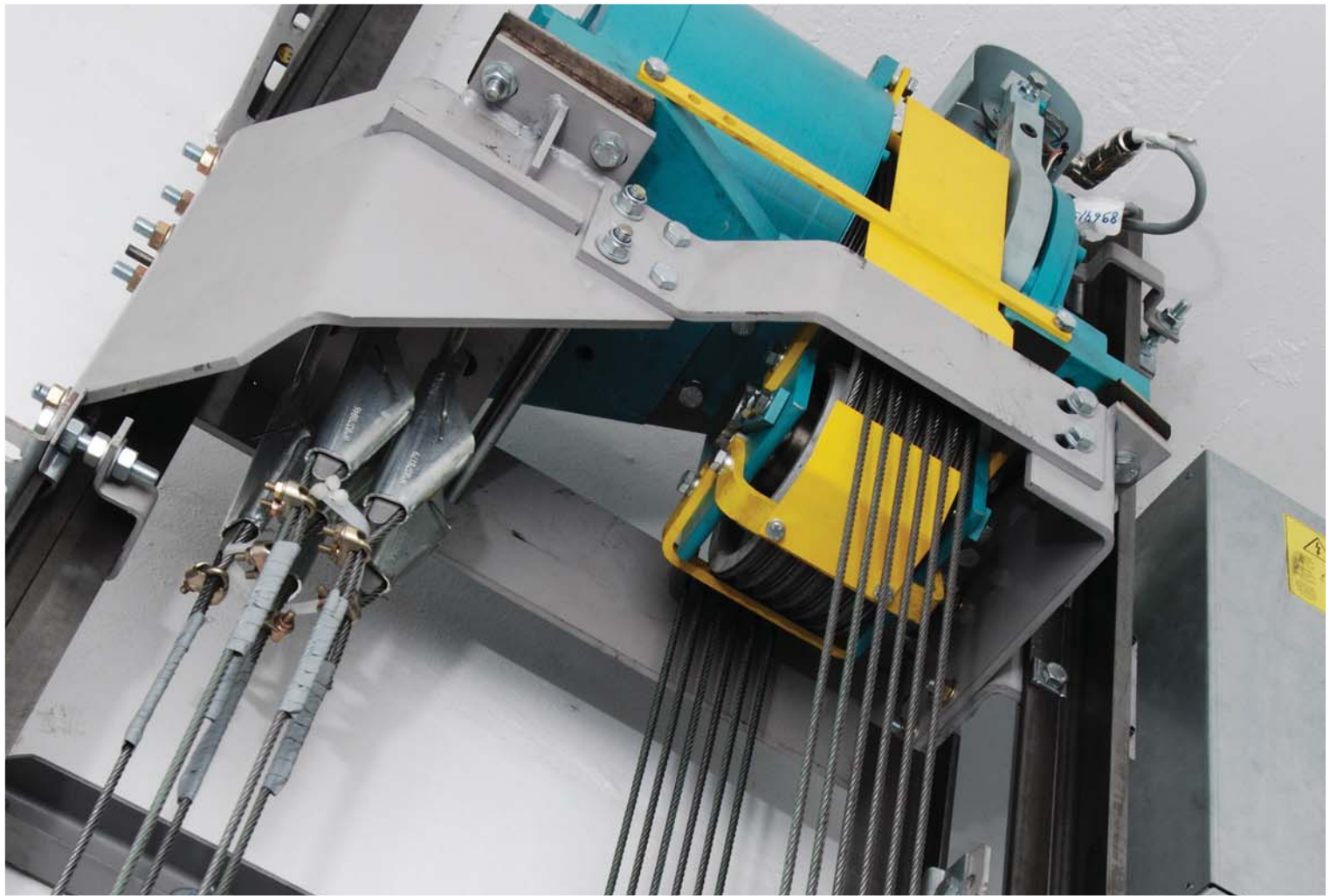
## Unidrive SP - taking you to another level

Unidrive SP - designed and rated for elevators

- Program in familiar elevator units - quick start up with no complex calculations
- Easy start with standstill autotune - faster commissioning as no shaft rotation required
- High switching frequency - quiet motor for reduced building noise
- Battery back-up operation as standard - makes emergency evacuation easy
- Ideal for geared and gearless applications - less stock, faster learning, easier maintenance
- Direct control of motor brake and contactor - reduced components, less wiring
- Creep-to-floor or direct-to-floor positioning as standard - flexible, depending on your requirements
- Active Thermal Management - triplex operation in high overload conditions
- Secure Disable - reduces user cost in machine safety design



Unidrive SP - power ratings to meet your elevator requirements



## Lifteknic (United Kingdom)

### Control Techniques' Solution:

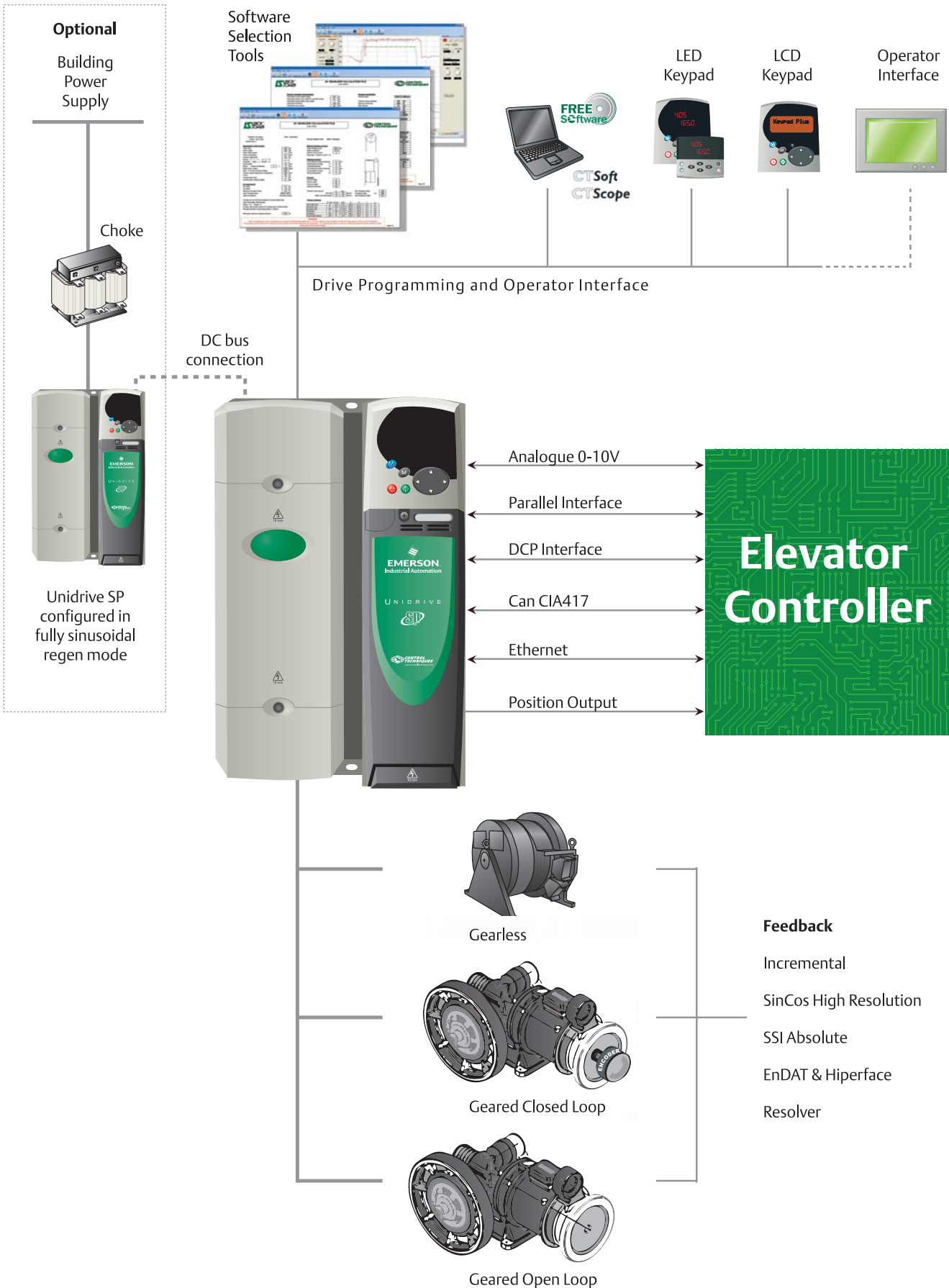
Unidrive SP with SM-Applications option controlling synchronous permanent magnet gearless AC motors working in conjunction with the Lifteknic QUBE control system

### Benefits:

- Pioneering control technology that is simpler and more effective than conventional elevator systems
- High accuracy, reduced floor-to-floor times and top quality smooth ride of elevator system
- Reduced costs of system due to drive accuracy meaning load-weighing device and sensors are not required
- Quick and easy installation

“The Unidrive SP from Control Techniques offers a more advanced product with networking, direct-to-floor capability, better ride quality and better reliability too.”

Paul Catherall, Director, Lifteknic





## Sele (Italy)

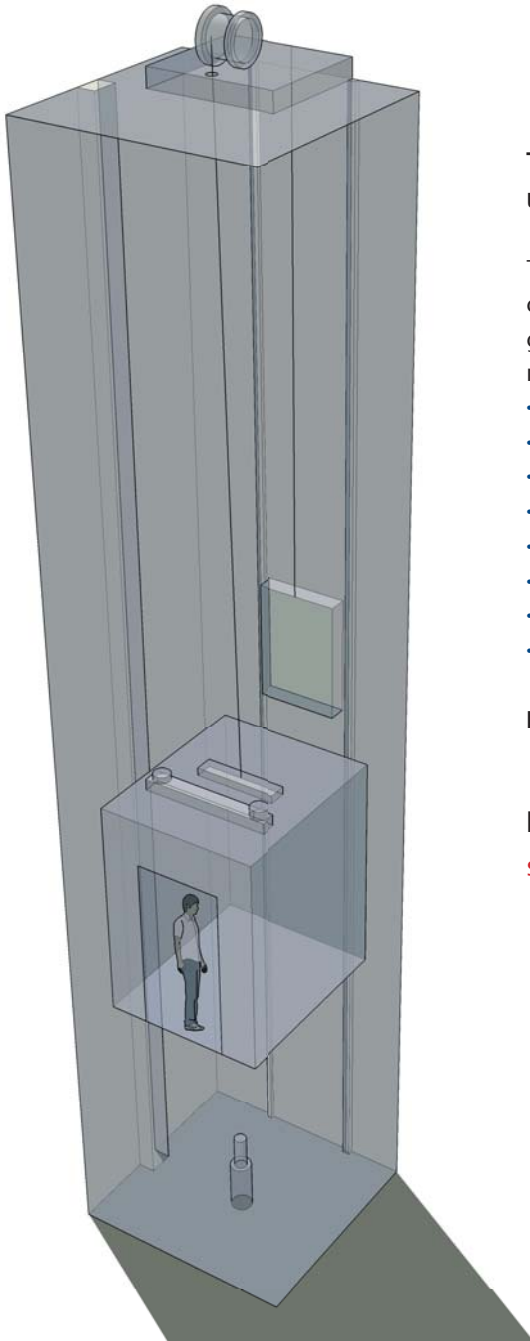
**Control Techniques' Solution:**  
Unidrive SP used to control Sele's 'Special' range

**Benefits:**

- Compact solution removing the need for a machine room, and simplifying maintenance
- Elevator systems are able to reach higher speeds whilst providing significant energy savings in residential, private or public buildings
- The facility to configure Unidrive SP as an open-loop vector control, closed-loop vector control, with or without encoder (using Rotary Flux Control) and as a servo drive (for brushless motors), makes the drive suitable for all types of installation.
- Additional safety features

“ We were looking for a highly flexible and versatile drive. We chose Control Techniques because they offer a high technology range of products for a simplified, quiet and low energy solution. ”

Giovanni Marchetti, R&D Sele Srl



## The SM-Applications option module offers users real integration possibilities

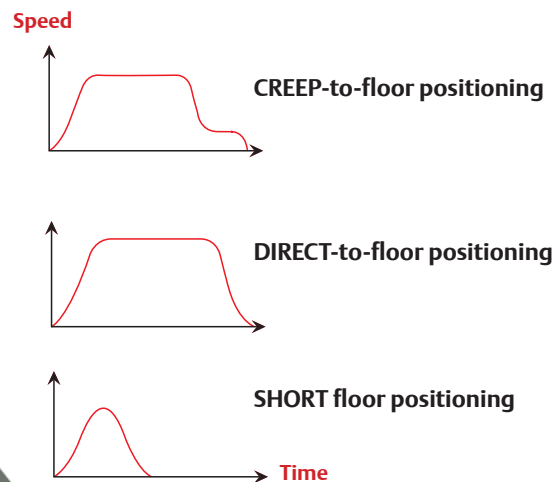
The most powerful plug-in AC drive application module available to system designers. This module has built-in elevator profile generators for both geared and gearless systems. Parameters are in elevator industry units - mm, m/s, m/s<sup>2</sup>

- S ramp (jerk) with sectionalised, adjustable profile parameters
- Wide speed selection (7-10 speeds)
- 2 velocity thresholds (eg. 0.3m/s)
- Creep-to-floor or direct-to-floor travel
- Peak travel or short travel
- Brake controller
- Electronic load measurement
- Calculation of deceleration profile



**Designed to EN81-1**

## Excellent floor-to-floor travel



For more information please refer to the Unidrive SP brochure which can be downloaded from: [www.controltechniques.com](http://www.controltechniques.com)

Unidrive <b>SP</b>	SP1406	SP2401	SP2402	SP2403	SP2404	SP3401	SP3402	SP3403	SP4401	SP4402	SP4403	SP5401	SP5402
Typical Motor - kW	4	5.5	7.5	11	15	15	18.5	22	30	37	45	55	75
Peak Current (5 Seconds) - A	16.6	22.7	28.8	40	50.7	56	70	80	105	129	168	217	273
Nominal Current @ 40°C - A	9.5	13	16.5	25	29	32	40	46	60	74	96	124	156
Switching Frequency selectable 3 to 16kHz *	8kHz						6kHz						
Maximum Output Voltage	3 phase 380 - 480V (limited by input voltage)												
Input Voltage	3 phase 380 - 480Vac, 50 - 60Hz												
Braking Transistor	Built in as standard												

\* @ 50% Effective Duty (ED)

\*\* Higher ratings are available. Please contact your local Control Techniques Drive Centre

Control Techniques Drive & Application Centres

- AUSTRALIA**  
Melbourne Application Centre  
T: +613 973 81777  
controltechniques.au@emerson.com
- AUSTRIA**  
Linz Drive Centre  
T: +43 7229 789480  
controltechniques.at@emerson.com
- BELGIUM**  
Brussels Drive Centre  
T: +32 1574 0700  
controltechniques.be@emerson.com
- BRAZIL**  
São Paulo Application Centre  
T: +55 11 3618 6688  
controltechniques.br@emerson.com
- CANADA**  
Toronto Drive Centre  
T: +1 905 949 3402  
controltechniques.ca@emerson.com
- Calgary Drive Centre  
T: +1 403 253 8738  
controltechniques.ca@emerson.com
- CHINA**  
Shanghai Drive Centre  
T: +86 21 5426 0668  
controltechniques.cn@emerson.com
- Beijing Application Centre  
T: +86 10 856 31122 ext 820  
controltechniques.cn@emerson.com
- CZECH REPUBLIC**  
Brno Drive Centre  
T: +420 511 180111  
controltechniques.cz@emerson.com
- DENMARK**  
Copenhagen Drive Centre  
T: +45 4369 6100  
controltechniques.dk@emerson.com
- FRANCE\***  
Angoulême Drive Centre  
T: +33 5 4564 5454  
controltechniques.fr@emerson.com
- GERMANY**  
Bonn Drive Centre  
T: +49 2242 8770  
controltechniques.de@emerson.com
- Chemnitz Drive Centre  
T: +49 3722 52030  
controltechniques.de@emerson.com
- Darmstadt Drive Centre  
T: +49 6251 17700  
controltechniques.de@emerson.com
- GREECE\***  
Athens Application Centre  
T: +0030 210 57 86086/088  
controltechniques.gr@emerson.com
- HOLLAND**  
Rotterdam Drive Centre  
T: +31 184 420555  
controltechniques.nl@emerson.com
- HONG KONG**  
Hong Kong Application Centre  
T: +852 2979 5271  
controltechniques.hk@emerson.com
- INDIA**  
Chennai Drive Centre  
T: +91 44 2496 1123/  
2496 1130/2496 1083  
controltechniques.in@emerson.com
- Pune Application Centre  
T: +91 20 2612 7956/2612 8415  
controltechniques.in@emerson.com
- IRELAND**  
Newbridge Drive Centre  
T: +353 45 448200  
controltechniques.ie@emerson.com
- ITALY**  
Milan Drive Centre  
T: +39 02575 751  
controltechniques.it@emerson.com
- Reggio Emilia Application Centre  
T: +39 02575 751  
controltechniques.it@emerson.com
- Vicenza Drive Centre  
T: +39 0444 933400  
controltechniques.it@emerson.com
- KOREA**  
Seoul Application Centre  
T: +82 2 3483 1605  
controltechniques.kr@emerson.com
- MALAYSIA**  
Kuala Lumpur Drive Centre  
T: +603 5634 9776  
controltechniques.my@emerson.com
- REPUBLIC OF SOUTH AFRICA**  
Johannesburg Drive Centre  
T: +27 11 462 1740  
controltechniques.za@emerson.com
- Cape Town Application Centre  
T: +27 21 556 0245  
controltechniques.za@emerson.com
- RUSSIA**  
Moscow Application Centre  
T: +7 495 981 9811  
controltechniques.ru@emerson.com
- SINGAPORE**  
Singapore Drive Centre  
T: +65 6891 7600  
controltechniques.sg@emerson.com
- SLOVAKIA**  
EMERSON A.S  
T: +421 32 7700 369  
controltechniques.sk@emerson.com
- SPAIN**  
Barcelona Drive Centre  
T: +34 93 680 1661  
controltechniques.es@emerson.com
- Bilbao Application Centre  
T: +34 94 620 3646  
controltechniques.es@emerson.com
- Valencia Drive Centre  
T: +34 96 154 2900  
controltechniques.es@emerson.com
- SWEDEN\***  
Stockholm Application Centre  
T: +468 554 241 00  
controltechniques.se@emerson.com
- SWITZERLAND**  
Lausanne Application Centre  
T: +41 21 637 7070  
controltechniques.ch@emerson.com
- Zurich Drive Centre  
T: +41 56 201 4242  
controltechniques.ch@emerson.com
- TAIWAN**  
Taipei Application Centre  
T: +886 22325 9555  
controltechniques.tw@emerson.com
- THAILAND**  
Bangkok Drive Centre  
T: +66 2962 2092 99  
controltechniques.th@emerson.com
- TURKEY**  
Istanbul Drive Centre  
T: +90 216 4182420  
controltechniques.tr@emerson.com
- UAE\***  
Emerson FZE  
T: +971 4 8118100  
ct.dubai@emerson.com
- UNITED KINGDOM**  
Telford Drive Centre  
T: +44 1952 213700  
controltechniques.uk@emerson.com
- USA**  
California Drive Centre  
T: +1 562 943 0300  
controltechniques.us@emerson.com
- Charlotte Application Centre  
T: +1 704 393 3366  
controltechniques.us@emerson.com
- Chicago Application Centre  
T: +1 630 752 9090  
controltechniques.us@emerson.com
- Cleveland Drive Centre  
T: +1 440 717 0123  
controltechniques.us@emerson.com
- Florida Drive Centre  
T: +1 239 693 7200  
controltechniques.us@emerson.com
- Latin America Sales Office  
T: +1 562 943 0300  
controltechniques.us@emerson.com
- Minneapolis US Headquarters  
T: +1 952 995 8000  
controltechniques.us@emerson.com
- Oregon Drive Centre  
T: +1 503 266 2094  
controltechniques.us@emerson.com
- Providence Drive Centre  
T: +1 401 541 7277  
controltechniques.us@emerson.com
- Utah Drive Centre  
T: +1 801 566 5521  
controltechniques.us@emerson.com

Control Techniques Distributors

- ARGENTINA**  
Euro Techniques SA  
T: +54 11 4331 7820  
eurotech@eurotechsa.com.ar
- BAHRAIN**  
Emerson FZE  
T: +971 4 8118100  
ct.bahrain@emerson.com
- BULGARIA**  
BLS - Automation Ltd  
T: +359 32 968 007  
info@blsaautomation.com
- CHILE**  
Ingeniería Y Desarrollo Tecnológico S.A  
T: +56 2 719 2200  
rdunner@idt.cl
- COLOMBIA**  
Sistronic LTDA  
T: +57 2 555 60 00  
luis.alvarez@sistronic.com.co
- Redes Eléctricas S.A.  
T: +57 1 364 7000  
alvaro.rodriguez@redeselectricas.com
- CROATIA**  
Zigg-Pro d.o.o  
T: +385 1 3463 000  
zigg-pro@zg.htnet.hr
- CYPRUS**  
Acme Industrial Electronic Services Ltd  
T: +3572 5 332181  
acme@cytanet.com.cy
- EGYPT**  
Samiram  
T: +202 29703868/  
+202 29703869  
samiramz@samiram.com
- EL SALVADOR**  
Servieletric Industrial S.A. de C.V.  
T: +503 2278 1280  
aeorellana@gruposervieletric.com
- FINLAND**  
SKS Control  
T: +358 207 6461  
control@sksf.fi
- GUATEMALA**  
MICE, S.A.  
T: +502 5510 2093  
mice@itelgua.com
- HONDURAS**  
Temtronics Honduras  
T: +504 550 1801  
temtronics@amnehn.com
- HUNGARY**  
Control-VH Kft  
T: +361 431 1160  
info@controlvh.hu
- ICELAND**  
Samey ehf  
T: +354 510 5200  
samey@samey.is
- INDONESIA**  
Pt Apikon Indonesia  
T: +65 6468 8979  
info.my@controltechniques.com
- Pt Yua Esa Sempurna Sejahtera  
T: +65 6468 8979  
info.my@controltechniques.com
- ISRAEL**  
Dor Drives Systems Ltd  
T: +972 3900 7595  
info@dot1.co.il
- KENYA**  
Kassam & Bros Co. Ltd  
T: +254 2 556 418  
kassambros@africaonline.co.ke
- KUWAIT**  
Emerson FZE  
T: +971 4 8118100  
ct.kuwait@emerson.com
- LATVIA**  
EMT  
T: +371 760 2026  
janis@emt.lv
- LEBANON**  
Black Box Automation & Control  
T: +961 1 443773  
info@blackboxcontrol.com
- LITHUANIA**  
Elinta UAB  
T: +370 37 351 987  
sigitas@elinta.lt
- MALTA**  
Mekanika Limited  
T: +35621 442 039  
mfranca@gasan.com
- MEXICO**  
MELCSA S.A. de C.V.  
T: +52 55 5561 1312  
jcervera@melcsa.com
- MOROCCO**  
Cietec  
T: +212 22 354948  
cietec@cietec.ma
- NEW ZEALAND**  
Advanced Motor Control. Ph.  
T: +64 (0) 274 363 067  
info.au@controltechniques.com
- PERU**  
Intech S.A.  
T: +51 1 224 9493  
artur.muja@intech-sa.com
- PHILIPPINES**  
Control Techniques Singapore Ltd  
T: +65 6468 8979  
info.my@controltechniques.com
- POLAND**  
APATOR CONTROL Sp. z o.o  
T: +48 56 6191 207  
info@acontrol.com.pl
- PORTUGAL**  
Harker Sumner S.A  
T: +351 22 947 8090  
drives.automation@harker.pt
- PUERTO RICO**  
Motion Industries Inc.  
T: +1 787 251 1550  
roberto.diaz@motion-ind.com
- QATAR**  
Emerson FZE  
T: +971 4 8118100  
ct.qatar@emerson.com
- ROMANIA**  
C.I.T. Automatizari  
T: +40212550543  
office@citautomatizari.ro
- SAUDI ARABIA**  
A. Abunayyan Electric Corp.  
T: +9661 477 9111  
aecs-salesmarketing@abunayyangroup.com
- SERBIA & MONTENEGRO**  
Master Inzenjering d.o.o  
T: +381 24 551 605  
office@masterinzenjering.rs
- SLOVENIA**  
PS Logatec  
T: +386 1 750 8510  
ps-log@ps-log.si
- TUNISIA**  
SIA Ben Djemaa & CIE  
T: +216 1 332 923  
bendjemaa@planet.tn
- URUGUAY**  
SECOIN S.A.  
T: +5982 2093815  
jose.barron@secoin.com.uy
- VENEZUELA**  
Digimex Sistemas C.A.  
T: +58 243 551 1634  
digimex@digimex.com.ve
- VIETNAM**  
N.Duc Thinh  
T: +84 8 9490633  
infotech@nducthinh.com.vn

P.N. 0771-0027-01 10/10

