

# Products and solutions for lifting systems



### www.LovatoElectric.com



### **Tradition and Innovation**





#### **Since 1922**

The first LOVATO Electric headquarters founded in Bergamo in 1922: the starting point of the grand industrial adventure.





#### **Italian design**

Highly-qualified design, technical and research staff fully develop and design innovative and reliable products in the Bergamo offices, using state-of-the-art software.





### **Most advanced manufacturing facilities**

LOVATO Electric manufacures its products with cutting-edge technology.





### **Quality and certifications**

LOVATO Electric products comply with the major international quality standard requirements.











#### **Customer care service**

The Customer Service team offers prompt and professional assistance for products and applications.





### **International presence in over 100 countries**

Eight foreign branches and widespread official sales affiliates assure product assistance and availability in over 100 countries worldwide.



Czech Republic

LOVATO S.R.O.

Germany DELTEC LOVATO GmbH

LOVATO ELECTRIC INC

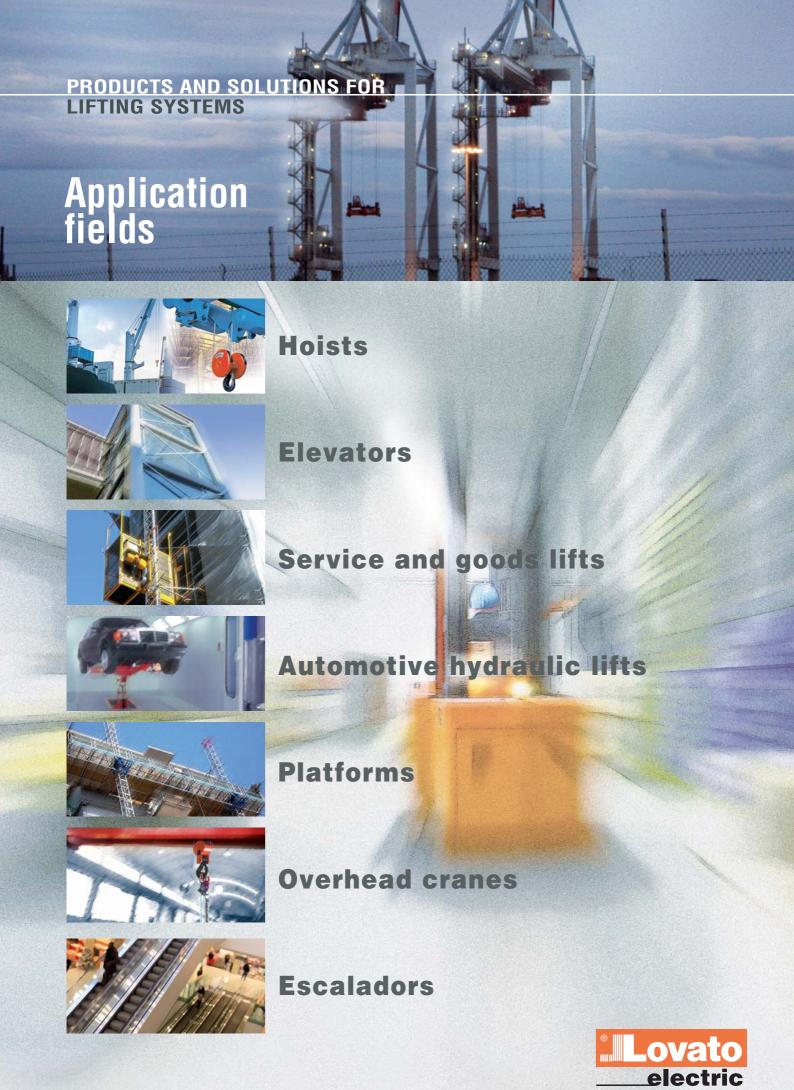
Canada LOVATO ELECTRIC CORPORATION

Spain Poland LOVATO ELECTRIC S.L.U. LOVATO ELECTRIC SP. Z 0.0.



Mexico LOVATO ELECTRIC DE MEXICO, S.A. DE C.V.





### PRODUCTS





## ANDSOLUTION

### **THERMO-MAGNETIC CIRCUIT BREAKERS**

- > Wide adjustment range 0.1 to 100A
- > Breaking capacity Icu 50kA (400V) up to 100A
- > Suitable for isolation
- > Comprehensive line of accessories

Wall and flush mount enclosures.



### **SWITCH DISCONNECTORS**

- ▶ 16A to 1600A ratings
- > Three and four pole types and with fuse holder
- > Versions: direct operating, door coupling and in housing
- > Wide range of accessories
- Interlocking fuse holder up to 32A.



### **CONTACTORS**

- > Three-pole versions up to 630A in AC3 duty
- > Four-pole versions up to 1600A in AC1 duty
- > Four-pole versions with 2NO+2NC or 4NC up to 38A in AC3 duty
- > AC or DC control versions

Low consumption DC versions

Printed circuit board (PCB) versions.



### **MOTOR PROTECTION RELAYS**

- > Thermal overload relays for current between 0.09 and 420A
- > Phase failure sensitive and non phase failure sensitive versions
- > Automatic and/or manual resetting
- > Independent or direct mounting on contactor
- > Thermistor protection relay.



### **ELECTROMECHANICAL STARTERS**

- Direct-on-line starters in insulated enclosure, complete with or without thermal overload relay
- Reversing and changeover contactor assemblies
- Star-delta starters, open frame and in insulated enclosure versions.



### **INSULATED ENCLOSURES**

> IP65 insulated enclosures for customer-assembled starters.





# S FOR LIFTIN

### **CONTROL AND SIGNALLING UNITS**

- Ø22mm push buttons and selector switches
  - Metal and plastic, quick installation by simple rotation
- > E-stops and pilot lights
  - Metal and plastic, quick installation by simple rotation



### **SIGNAL TOWERS AND BEACONS**

#### Ø70mm signal towers

- Modular and combinations up to 7 modules
- Steady and blinking light, flash, pulsed and continuous sound



 Steady and blinking light, pulsed and continuous sound.



### **LIMIT, MICRO AND FOOT SWITCHES**

- > Dimensions to EN 50047 standards
- > Dimensions compatible to EN 50047 standards
- > Dimensions to EN 50041 standards
- > Versions with interchangeable and rotatable heads
- > Insertable and interchangeable auxiliary contact blocks.



### TIME RELAYS

- > Modular version for consumer switchboards
- > 35mm DIN rail mount version
- > Plug-in and flush-mount versions
- > Vast range of functions and time scales
- > Reliable time and repeat accuracy.



### **PROTECTION RELAYS**

- > Modular versions, also for 35mm DIN rail fixing
- Minimum and maximum voltage monitoring relays for single and three phase systems, with or without neutral

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- Voltage monitoring relays for asymmetry, phase loss and phase sequence control
- Minimum and maximum current monitoring relays
- Frequency monitoring relays.

### **FUSE HOLDERS**

- Modular concept for 10x38, 14x51 and 22x58 fuse sizes
- IP20 protection degree, finger safe and sealable cover to increase user's safety
- Version with status indicator to quickly identify the fuse to replace
- > UL and CSA certified versions.





# G SYSTEMS

### **SOFT STARTERS**

- > 6A to 1200A ratings
- > Standard and severe duty types
- > Internal by-pass contactor up to 245A rating
- > Torque ramp starting
- Total motor protection incorporated
- > Clock calendar
- RS232 and RS485 ports for remote supervision and control
- Modbus®-RTU and proprietary ASCII communication protocols.



### **AC MOTOR DRIVES**

- Versions for single phase up to 2.2kW at 230V and three phase up to 630kW at 400V
- > Special functions for pump and fan control using PID algorithm
- EMC suppressor built in all versions
- Selectable motor control mode: V/f, vector, energy saving
- > Selectable digital and analog inputs and outputs
- IP54 versions available on request
- HVAC versions, compliant with IEC/EN 61000-3-12 standards, available on request.



### **PROGRAMMABLE LOGIC RELAYS**

- 10, 12 and 20 Input/Output base modules
- Expansion modules with 4 Inputs and 4 Outputs
- Maximum configuration: 44 Inputs/Outputs
- RS232 port for PC or program backup memory connection
- > HMI terminal.



### **SWITCHING POWER SUPPLIES**

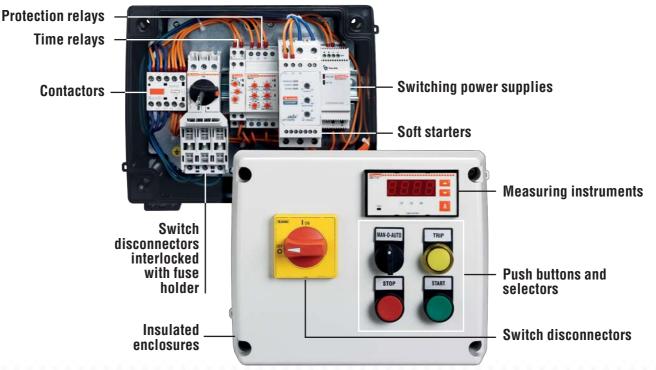
Single-phase versions up to 480W output, two-phase up to 100W and three-phase up to 960W

12VDC and 24VDC versions

Modular and DIN rail mount versions

Output voltage adjustment by front potentiometer.









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LOVATO ELECTRIC S.P.A.

CONTROL SOLUTIONS FOR INDUSTRY
VIA DON E. MAZZA, 12 - 24020 GORLE (BERGAMO) ITALY

Tel. +39 035 4282111 Fax +39 035 4282200

Email: info@LovatoElectric.com

Sales Department: Tel. +39 035 4282354 - Fax +39 035 4282400

### LOVATO Electric offices in the world

United Kingdom LOVATO (UK) LTD Tel. +44 8458 110023 www.Lovato.co.uk

Czech Republic LOVATO S.R.O. Tel. +420 382 265482 www.LovatoElectric.cz Germany DELTEC LOVATO GmbH Tel. +49 7237 1733 www.DeltecLovato.de

USA LOVATO ELECTRIC INC Tel. +1 757 545 4700 www.LovatoUsa.com Spain LOVATO ELECTRIC S.L.U. Tel. +34 93 7812016 www.LovatoElectric.es

Canada LOVATO ELECTRIC CORPORATION Tel. +1 450 681 9200 www.Lovato.ca Poland LOVATO ELECTRIC SP. Z 0.0. Tel. +48 71 7979010 www.LovatoElectric.pl

Mexico LOVATO ELECTRIC DE MEXICO, S.A. DE C.V. Tel. +52 555 3415662 www.LovatoElectric.com.mx

