custom'able



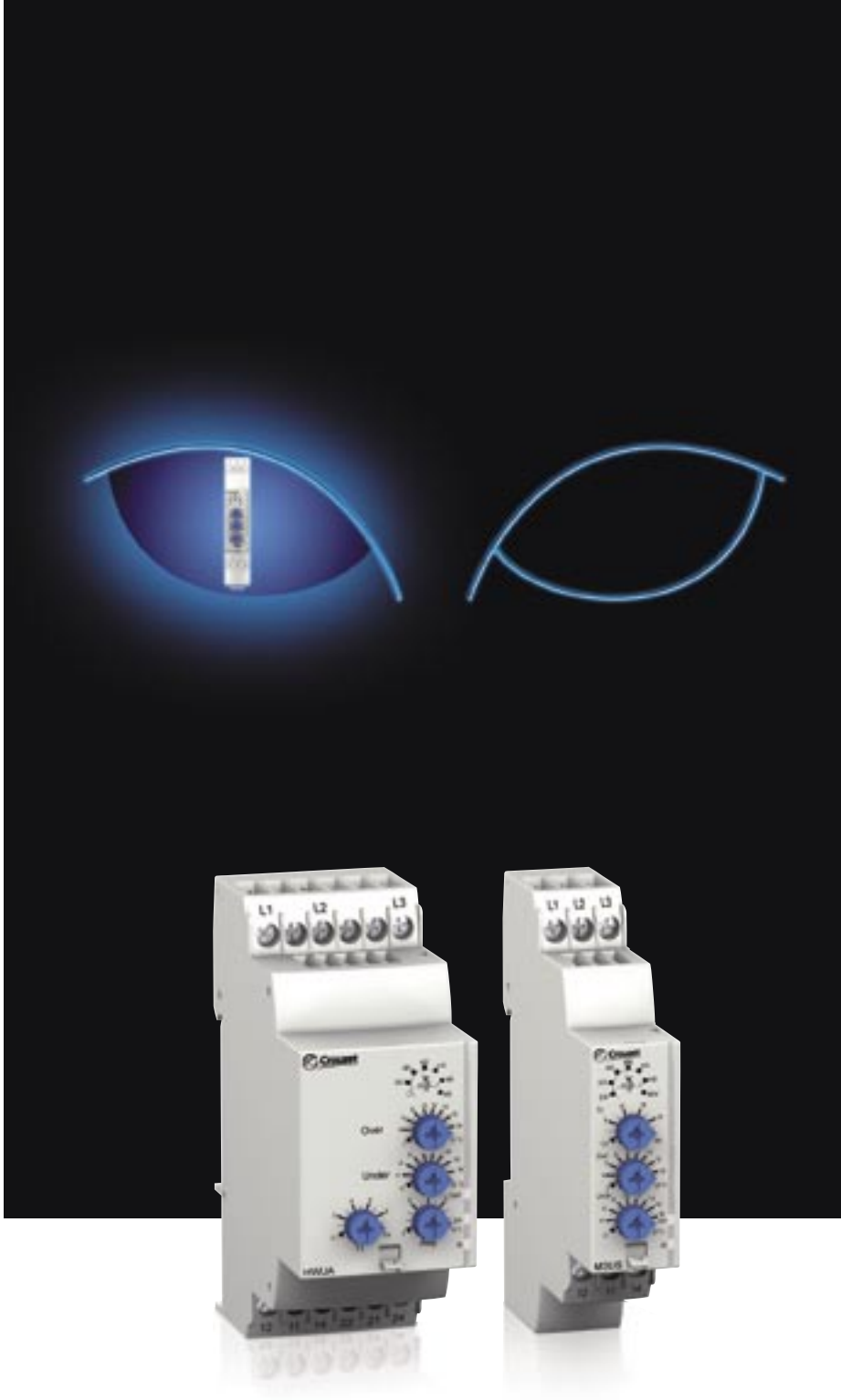
Close supervision



Simplicity of use



Productivity gains



Control relay

C-Lynx

Instinctive control

a company of Schneider Electric

Crouzet

3 good reasons for installing

1 Close-up protection for total availability of equipment!

By installing a control relay, the user can be informed of abnormal operating conditions, and is therefore able to take the necessary action to correct the fault by stopping the machine briefly before expensive breakdowns occur.

A major challenge for industry is to improve the availability of production tools, for which the close supervision and protection offered by **C-Lynx** is the perfect solution. It therefore makes sense for every device to be monitored by a **C-Lynx** control relay. Each device or machine would therefore be able to complete its allotted task at the appropriate time.



Crouzet

a control relay in your equipment



2 All anomalies are detected!

Control relays monitor and detect abnormal operating conditions of an electrical or physical value (voltage, current, phase, level) in any device, even the most specialised (hoist, machine, motor, conveyor, etc).

If an anomaly is detected, the control relays emit a visible signal and trigger a change in the output contacts.

3 Optimise continuity of service

In industrial and commercial installations, every device should be monitored by a **C-Lynx** control relay so as to optimise continuity of service.

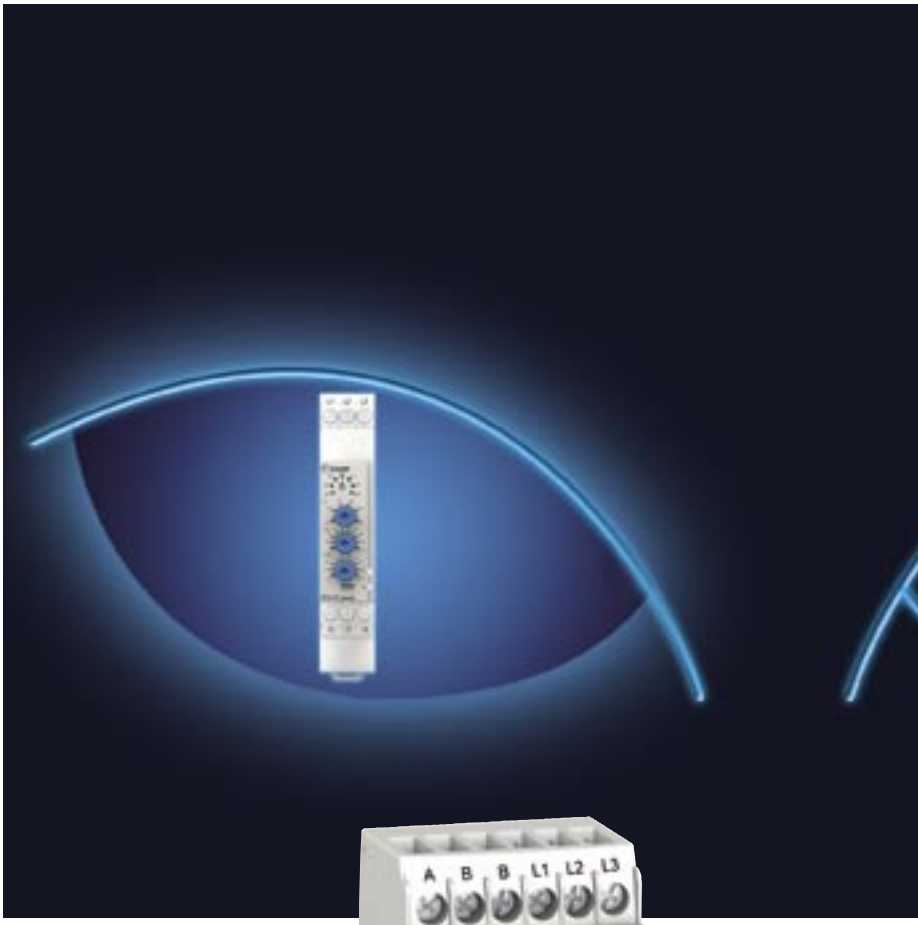
The control relay enables the operator to initiate maintenance operations or corrective actions to avoid production shutdowns.

Result:
Improved operation and productivity for your installation!

By using control relays, you optimise your production management and reduce incidents which could adversely affect your productivity.

C-Lynx, control relays dedicated

Supervision of motors, lifts, hoists, conveyor belts, packaging and air extraction, pumping... from standard products to bespoke products, C-Lynx control relays adapt to a multitude of applications, to meet all your requirements.



1 Supervision of Motors

On 3-phase supplies, **C-Lynx** control relays check phase sequence and phase failure preventing a change in direction of rotation, and single-phase operating modes. They therefore avoid overheating faults linked to phase imbalance.

2 Temperature control in lifts

C-Lynx temperature control relays monitor the ambient temperature of service rooms or lift pulley rooms, to check that it remains with the statutory limits (between 4°C and 40°C) in compliance with **standard EN 81**.



Lifts

3 HVAC

Heating, cooling, air conditioning or extraction... **C-Lynx** control relays stop the motor to protect the unit in the event of current, phase and/or supply voltage faults.

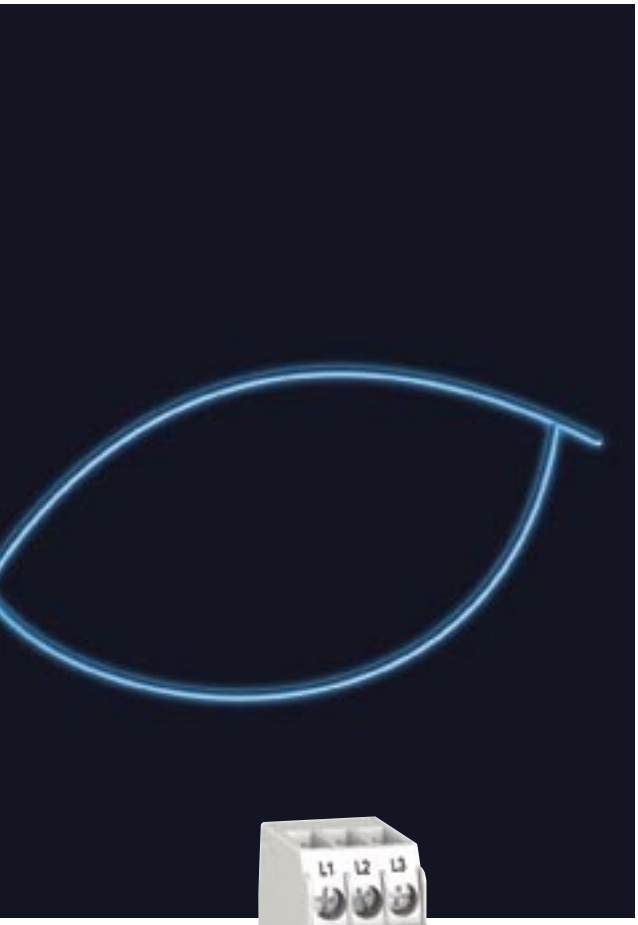


Air conditioning units



HWT81

to your applications





MWG

4 Pump and level control

Agricultural applications, watering, irrigation, drying, pressure surge, lift pumps and fire pumps, distribution and treatment of water, etc. **C-Lynx** control relays are used to manage and protect equipment by current measurement and phase monitoring. **C-Lynx** control relays can also be used to control emptying and filling levels.



Pumps

5 Load monitoring

Conveying, packaging, assembly or bottling lines, grinders, crushers, etc. **C-Lynx** control relays monitor overloads on driving motors and detect any jamming.



Conveyors

6 Speed monitoring

Whatever the application, **C-Lynx** control relays react and alert the operator if the machine operating rate is abnormally high or low.



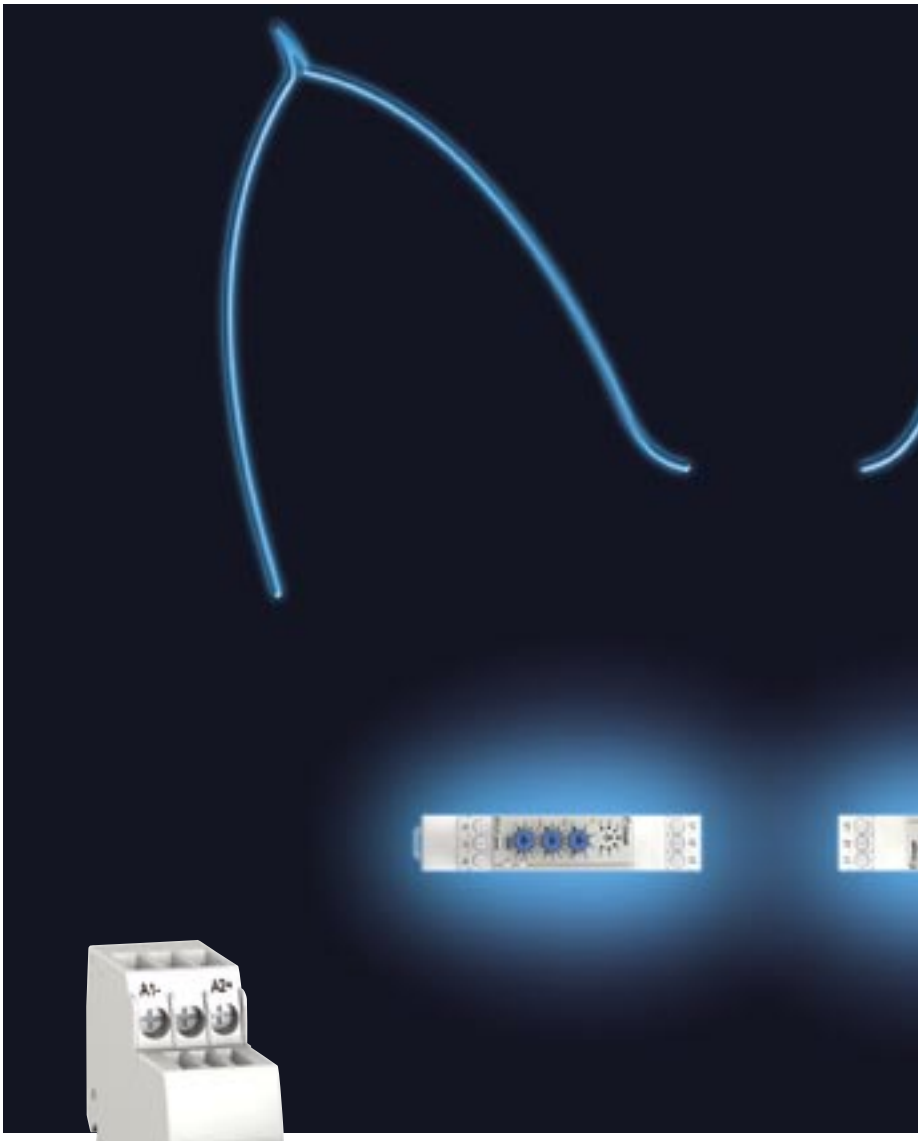
Escalators

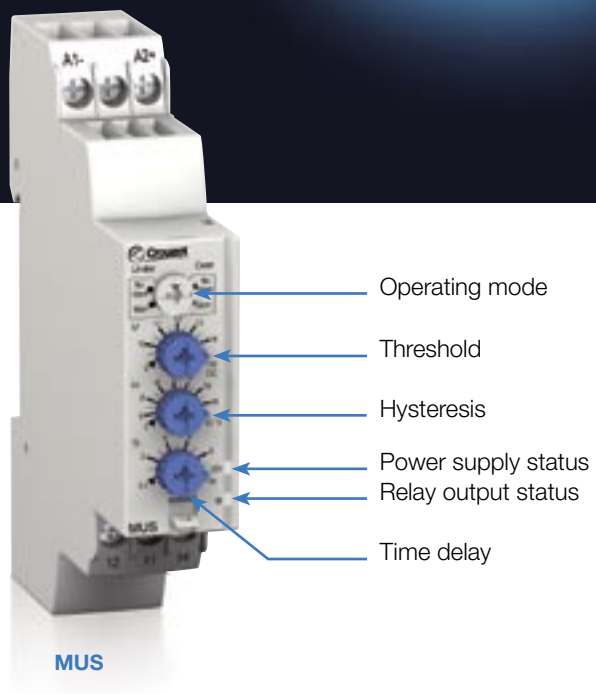
C-Lynx control relays can adapt to both standard and specialist applications.

C-Lynx,
tous les sens en éveil pour

1 The strong points of C-Lynx

- The combination of **several functions** in the same housing optimises your wiring time and simplifies installation.
- **The new 17.5 mm modular format** considerably reduces the dimensions of your equipment.
- **The Easy to use function:** the visual LED interface informs you of operating faults in your installation and any errors made when setting the parameters.
- **The new-generation built-in multi-voltage power supplies** optimise the number of parts and simplify product selection.
- **Eco-design: C-Lynx** control relays have been developed in accordance with the principles of eco-design (choice of materials, manufacturing process, energy consumption and component recycling). The recycling rate for these control relays is higher than that imposed by the WEEE (Waste Electrical and Electronic Equipment) European directive.
- **C-Lynx** control relays comply with **all the required electrical standards** and are easily integrated in your electrical equipment.





s’adapter à vos équipements



Custom’able label

Crouzet can satisfy all your automation requirements, from custom components to the most dedicated product. Throughout the world Crouzet provides technical and industrial expertise to ensure that its products are perfectly customised and adapted for integration in any of your equipment.

This is why Crouzet guarantees customisation or adaptation of the whole range of C-Lynx control relays.

2 Adaptability: C-Lynx’s trump card

The Crouzet design office can create control relays tailored to suit your needs, based on your specification.

Crouzet offers you the following adaptations:

- Adaptation of the level of regeneration for phase failure checks,
- Conversion of adjustable products into products with a fixed threshold,
- Adaptation of input voltage ranges and measurement ranges,
- Modification of timing ranges and addition of fixed values, etc,
- Possibility of customising colours and labelling, etc.



Ease of reading

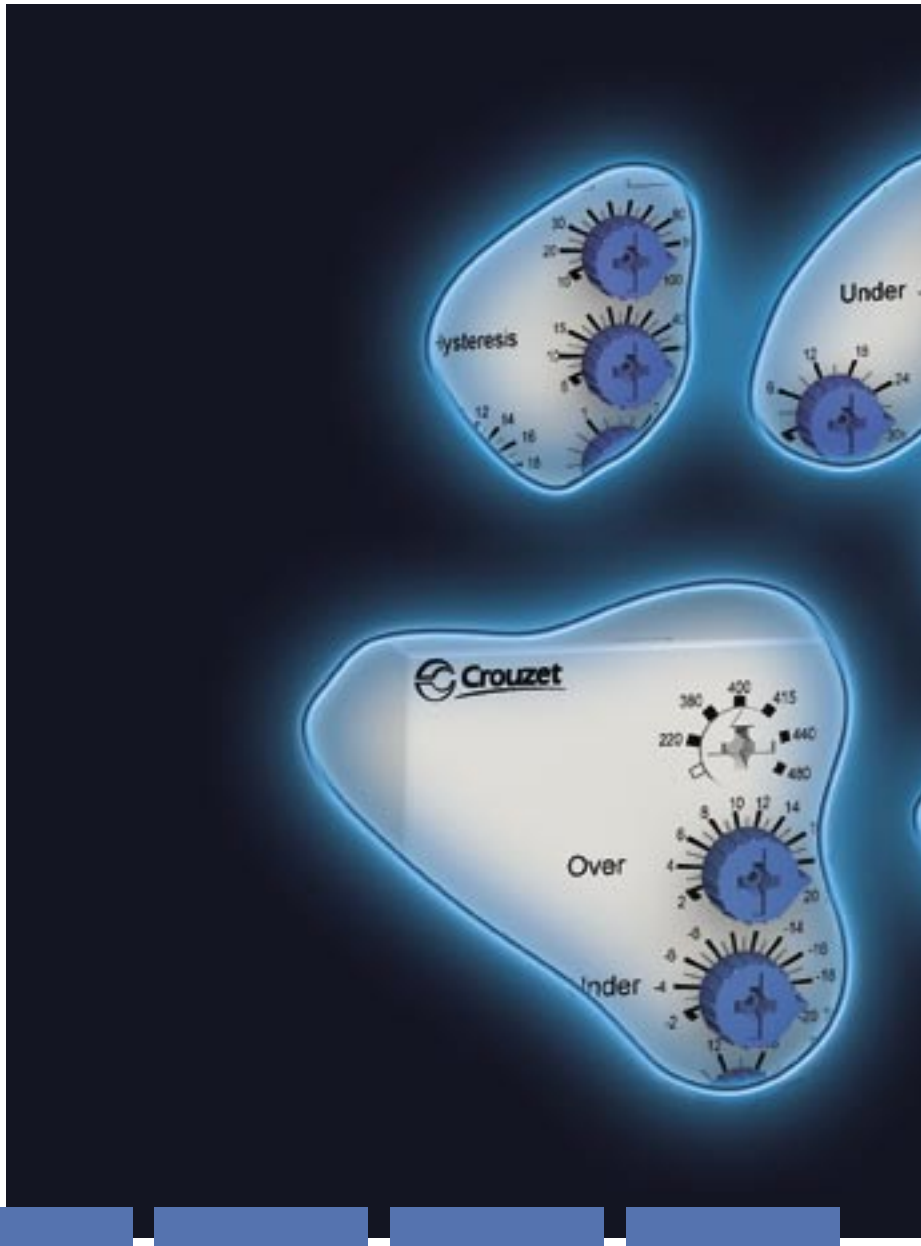


Simplified connections

C-Lynx by Crouzet: a complete collection of

1 New features of the C-Lynx range

- **Positive logic output** also indicating loss of power supply,
- **True RMS measurement:** even if the sine waves are distorted, the measurement is correct,
- **Reduction in the number of housing sizes:** with a 17.5 mm and 35 mm **modular** compact format, **C-Lynx** control relays can be integrated more easily in industrial and commercial cabinets,
- **Built-in universal power supplies:** a version with power supply for single-phase products and a self-powered version for 3-phase products,
- **Adjustable time delay** on crossing thresholds, thus avoiding transient faults,
- **Settings can be protected** by fitting a sealable cover,
- **Very clear display** of control status via LEDs.




H3US


MUSF

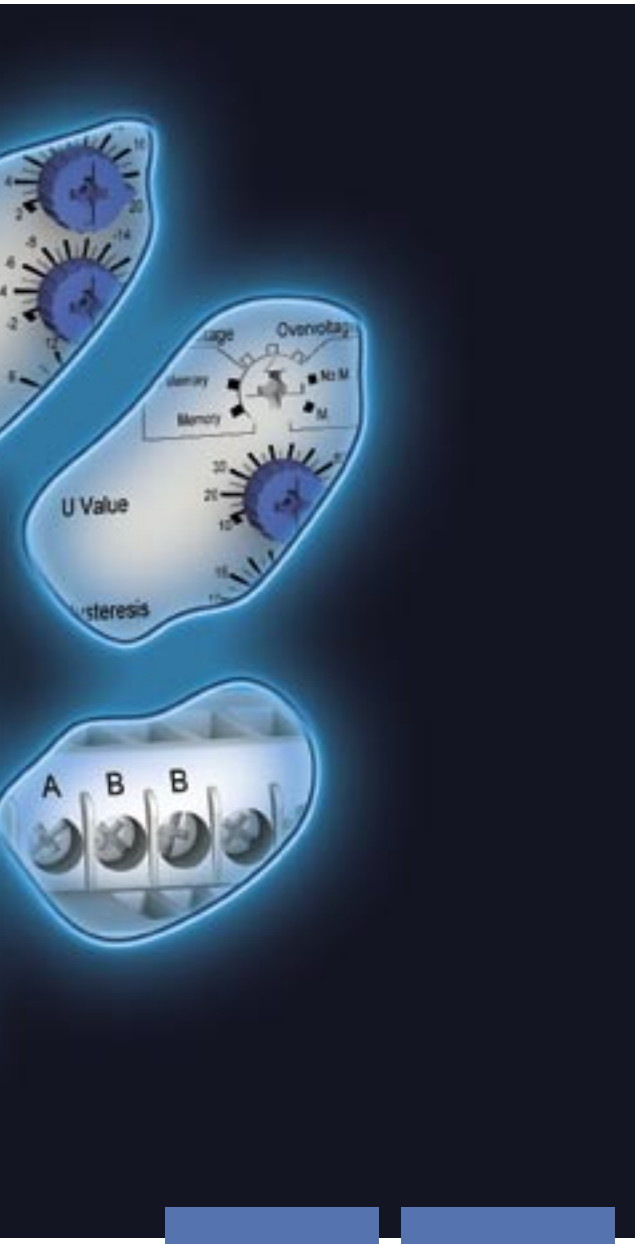

HIH


HHZ


HPC


MNS

control relays



2 A complete range of standard control relays

To satisfy all your automation requirements, Crouzet offers you an extensive range of standard control relays.

- **Phase control relays (MWS, MWS2, MWG, MWU, MWA, MWUA, HWUA, H3US, H3USN, M3US) :**
  - presence and regeneration, phase sequence, phase, balance and level of asymmetry (or balance),
  - adjustment of voltage thresholds.
- **Voltage control relays (MUS, MUSF, HUL, HUH) :**
  - overvoltage, undervoltage control,
  - self-powered versions.
- **Current control relays (MIC, HIL, HIH) :**
  - overcurrent and undercurrent control,
  - version with built-in toroid.
- **Frequency control relays (HHZ) :**
  - Overfrequency and underfrequency control of the 50 or 60 Hz AC signal.
- **Pump control relays (HPC) :**
  - control of single-phase or 3-phase pumps,
  - dry run and overload protection,
  - 3-phase control.
- **Level control relays (HNM, MNS, HNE) :**
  - automation of filling and emptying cycles,
  - high or low level information,
  - check for presence of a conductive or non-conductive liquid by temperature probe or discrete sensor.
- **Speed control relays (HSV) :**
  - monitoring of pulse rates,
  - overspeed and underspeed control, rotation or movement control.
- **Lift temperature control relay (HT81, HT81-2, HWT81) :**
  - temperature monitoring in machine rooms and lift pulley rooms in accordance with **standard EN 81,**
  - version with built-in phase control,
  - phase failure with regeneration up to 70%.
- **Phase and temperature control relays (HWTM, HWTM2) :**
  - 3-phase network control,
  - motor temperature control with PTC probe test and memory function on temperature control.


HSV

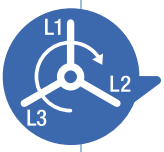

HT 81

Selection guide



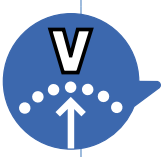




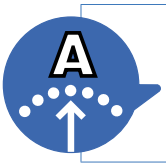


Designation	Part number	Description	Operating conditions
Phase control			
MWS	84873020	Phase failure and phase sequence	–
MWS2	84873021	Phase failure and phase sequence	–
MWG	84873022	Phase failure and phase sequence	Regeneration 70% of Un
MWU	84873023	Phase failure and phase sequence	Regeneration 70% of Un
		Undervoltage	Phase/phase Un: 208/220/380/400/415/440/480 V AC
MWA	84873024	Phase failure and phase sequence	Regeneration 70% of Un
		Asymmetry	–
MWUA	84873025	Overvoltage/undervoltage (window)	Phase/phase Un: 208/220/380/400/415/440/480 V AC
		Asymmetry	–
		Phase failure and phase sequence	–
HWUA	84873026	Overvoltage	Phase/phase Un: 220/380/400/415/440/480 V AC
		Asymmetry	–
		Undervoltage	Phase/phase Un: 220/380/400/415/440/480 V AC
		Phase failure and phase sequence	–
H3US	84873220	Phase failure	–
		Undervoltage	Phase/phase Un: 220/380/400/415/440/480 V AC
		Overvoltage	Phase/phase Un: 220/380/400/415/440/480 V AC
H3USN	84873221	Loss of phase and neutral	–
		Undervoltage	Phase/neutral Un: 120/127/220/230/240/260/277 V AC
		Overvoltage	Phase/neutral Un: 120/127/220/230/240/260/277 V AC
M3US	84873222	Phase failure	–
		Undervoltage	Phase/phase Un: 208/220/380/400/415/440/480 V AC
		Overvoltage	Phase/phase Un: 208/220/380/400/415/440/480 V AC
Voltage control			
MUS12DC	84872140	Undervoltage or overvoltage	–
MUS80ACDC	84872141	Undervoltage or overvoltage	–
MUS260ACDC	84872142	Undervoltage or overvoltage	–
MUSF80ACDC	84872151	Overvoltage/undervoltage (window)	–
MUSF260ACDC	84872152	Overvoltage/undervoltage (window)	–
HUL	84872120	Undervoltage or overvoltage	–
HUH	84872130	Undervoltage or overvoltage	–
Current control			
MIC	84871122	Undercurrent	Via built-in Toroid
HIL	84871120	Undercurrent or overcurrent	–
HIH	84871130	Undercurrent or overcurrent	–









Control values	Supply voltage	Time delay	Output relay
208-480 V AC 50/60 Hz	Self-powered 208-480 V AC	–	1 single changeover relay 5 A
208-440 V AC 50/60 Hz	Self-powered 208-440 V AC	–	2 single changeover relay 5 A
208-480 V AC 50/60 Hz	Self-powered 208-480 V AC	–	1 single changeover relay 5 A
208-480 V AC 50/60 Hz	Self-powered 208-480 V AC	0.1 s to 10 s	1 single changeover relay 5 A
-20% to -2%			
208-480 V AC 50/60 Hz	Self-powered 208-480 V AC	0.1 s to 10 s	1 single changeover relay 5 A
5% to 15%			
-20% to -2% +2% to +20%	Self-powered 208-480 V AC	0.1 s to 10 s	1 single changeover relay 5 A
5% to 15%			
208-480 V AC 50/60 Hz			
+2% to +20%	Self-powered 220-480 V AC	0.1 s to 10 s	1 double changeover relay 2 x 5 A
5% to 15%			
-20% to -2%			
220-480 V AC 50/60 Hz			
220-480 V AC 50/60 Hz	Self-powered 220-480 V AC	0.3 s to 30 s	2 single changeover relay 5 A
-20% to -2%			
+2% to +20%			
120-277 V AC 50/60 Hz	Self-powered 120-277 V AC	0.3 s to 30 s	2 single changeover relay 5 A
-20% to -2%			
+2% to + 20%			
208-480 V AC 50/60 Hz	Self-powered 208-480 V AC	0.3 s to 30 s	1 single changeover relay 5 A
-20% to -2%			
+2% to +20%			

9-15 V DC	Self-powered 12 V DC	0.1 s to 10 s	1 single changeover relay 5 A
20-80 V AC/DC	Self-powered 24-48 V AC/DC	0.1 s to 10 s	1 single changeover relay 5 A
65-260 V AC/DC	Self-powered 110-240 V AC/DC	0.1 s to 10 s	1 single changeover relay 5 A
20-80 V AC/DC	Self-powered 24-48 V AC/DC	0.1 s to 10 s	1 single changeover relay 5 A
65-260 V AC/DC	Self-powered 110-240 V AC/DC	0.1 s to 10 s	1 single changeover relay 5 A
0.2 V to 2 V 1 V to 10 V 6 V to 60 V	24-240 V AC/DC 50/60 Hz	0.1 s to 3 s	1 double changeover relay 2 x 5 A
15 V to 150 V 30 V to 300 V 60 V to 600 V	24-240 V AC/DC 50/60 Hz	0.1 s to 3 s	1 double changeover relay 2 x 5 A

2 A to 20 A	24-240 V AC/DC 50/60 Hz	–	1 single changeover relay 5 A
2 mA to 20 mA 10 mA to 100 mA 50 mA to 500 mA	24-240 V AC/DC 50/60 Hz	0.1 s to 3 s	1 double changeover relay 2 x 5 A
0.1 A to 1 A 0.5 A to 5 A 1 A to 10 A	24-240 V AC/DC 50/60 Hz	0.1 s to 3 s	1 double changeover relay 2 x 5 A

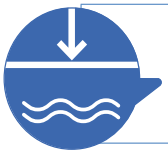
Selection guide





Designation	Part number	Description	Operating conditions
Frequency control			
HHZ	**84872501**	Underfrequency and overfrequency (window)	50 Hz or 60 Hz





Level control			
HNM	**84870700**	Filling or emptying with conductive liquids	1 or 2 levels
MNS	**84870720**	Filling	–
HNE	**84870710**	Filling or emptying	1 or 2 levels





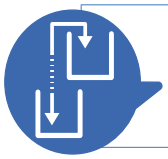
Speed control			
HSV	**84874320**	Underspeed or overspeed	–





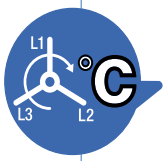
Temperature control in lifts according to EN 81			
HT81	**84874110**	Undertemperature and overtemperature (window)	–
HT81-2	**84874120**	Undertemperature and overtemperature (window)	–
HWT81	**84874130**	Undertemperature and overtemperature (window)	–
		Phase failure and phase sequence	Regeneration 70% of Un





Pump and level control			
HPC	**84874200**	Network monitoring	1 phase
			3-phase: Phase failure and phase sequence
		Undercurrent and overcurrent (window)	–





Temperature and phase control			
HWTM	**84873027**	Phase failure and phase sequence	–
		Thermal protection	–
HWTM2	**84873028**	Phase failure and phase sequence	–
		Thermal protection	–
		Test	Reset on front panel via pushbutton and remotely
		Memory	Reset on front panel via pushbutton and remotely

Control values	Supply voltage	Time delay	Output relay
40 HZ to 60 Hz 50 HZ to 70 Hz	120-277 V AC 50/60 Hz	0.1 s to 10 s	2 single changeover relay 5 A
250 Ω to 5 KΩ 5 KΩ to 100 KΩ 50 KΩ to 1 MΩ	24-240 V AC/DC 50/60 Hz	0.1 s to 5 s	1 double changeover relay 2 x 5 A
Contact input for discrete sensor	24-240 V AC/DC 50/60 Hz	0.1 s to 5 s	1 single changeover relay 5 A
Input for discrete sensor: Contact/PNP/NPN	24-240 V AC/DC 50/60 Hz	0.1 s to 5 s	1 single changeover relay 5 A
Time between controlled pulses: 0.05 s to 0.5 s 0.1 s to 1 s 0.5 s to 5 s 1 s to 10 s 0.1 mn to 1 mn 0.5 mn to 5 mn 1 mn to 10 mn	24-240 V AC/DC 50/60 Hz	0.6 s to 60 s	1 single changeover relay 5 A
3-wire PT100 input Low threshold: -1°C to +11°C High threshold: +34°C to +46°C	24-240 V AC/DC 50/60 Hz	1 s to 10 s	1 single changeover relay 5 A
3-wire PT100 input Low threshold: -1°C to +11°C High threshold: +34°C to +46°C	24-240 V AC/DC 50/60 Hz	1 s to 10 s	2 single contact relays (NO) 5 A
3-wire PT100 input Low threshold: -1°C to +11°C High threshold: +34°C to +46°C	24-240 V AC/DC 50/60 Hz	1 s to 10 s	2 single contact relays (NO) 5 A
208-480 V AC 50/60 Hz			
230 V AC 50/60 Hz	Self-powered (1 or 3 phases)	1 s to 60 s on power-up 0.1 s to 10 s on threshold crossing	1 single changeover relay 5 A
208-480 V AC 50/60 Hz			
1 A to 10 A AC			
208-480 V AC 50/60 Hz	24-240 V AC/DC	–	2 single contact relays (NO) 5 A
Thermistor with automatic reset			
208-480 V AC 50/60 Hz	24-240 V AC/DC	–	2 single contact relays (NO) 5 A
Thermistance to réarmement automatique			
–			
–			

LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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