



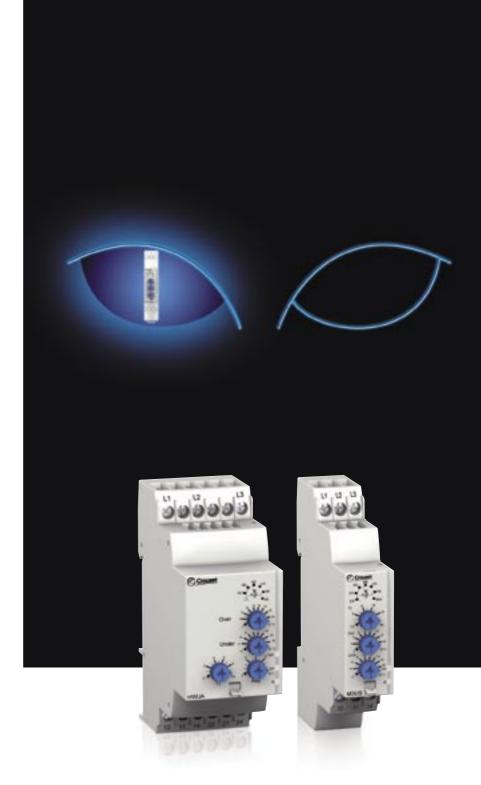
Close supervision



■Simplicity of use



■Productivity gains



Control relay



Instinctive control





C-LYNX Control relay

3 good reasons for installing

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.









a control relay in your equipment





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 relay

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.

Supervision of Motors

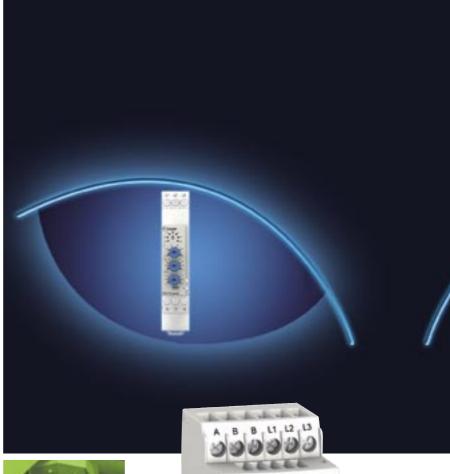
On 3-phase supplies, **C-Lynx** control relays check phase sequence and phase failure preventing a change in direction of rotation, and single-phase operating modes. They therefore avoid overheating faults linked to phase imbalance.

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.

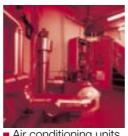
HVAC

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.





■ Lifts



Air conditioning units







to your applications



MWG



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



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



Speed monitoring

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



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



C-LYNX Control relay

C-Lynx,

tous les sens en éveil pour

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 multivoltage 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.

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



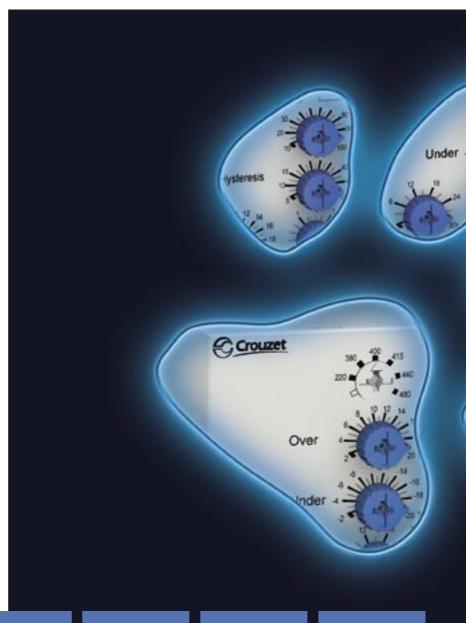
C-Lynx

Control relay

C-Lynx by Crouzet: a complete collection of

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.





















control relays



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.





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





MUS80AC
MUS260A
MUSF80A
MUSF260
HUL
нин

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	-
НИН	84872130	Undervoltage or overvoltage	_



Λ

Current control					
MIC	84871122	Undercurrent	Via built-in Toroid		
HIL	84871120	Undercurrent or overcurrent	_		
НІН	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			
-20% to -2%	Self-powered 208-480 V AC	0.1 s to 10 s	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
5% to 15%	Jeli-powered 200-400 v AC	0.1 \$ 10 10 \$	i single changeover relay 3 A
-20% to -2% +2% to +20%			1 single changeover relay 5 A
5% to 15%	Self-powered 208-480 V AC	0.1 s to 10 s	
208-480 V AC 50/60 Hz			
+2% to +20%			1 double changeover relay 2 x 5 A
5% to 15%	Self-powered 220-480 V AC	0.1 s to 10 s	
-20% to -2%	Seli-powered 220-460 V AC		
220-480 V AC 50/60 Hz			
220-480 V AC 50/60 Hz		0.3 s to 30 s	2 single changeover relay 5 A
-20% to -2%	Self-powered 220-480 V AC		
+2% to +20%			
120-277 V AC 50/60 Hz			2 single changeover relay 5 A
-20% to -2%	Self-powered 120-277 V AC	0.3 s to 30 s	
+2% to + 20%			
208-480 V AC 50/60 Hz			
-20% to -2%	Self-powered 208-480 V AC	0.3 s to 30 s	1 single changeover relay 5 A
+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			
RPM	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 leve	Pump and level control				
HPC	84874200	Network monitoring	1 phase		
			3-phase: Phase failure and phase sequence		
		Undercurrent and overcurrent (window)	_		



	°C
L3	L2

	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
				via padribation and formotoly







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	24-240 V AC/DC 50/60 Hz	0.6 s to 60 s	1 single changeover relay 5 A
1 s to 10 s 0.1 mn to 1 mn 0.5 mn to 5 mn 1 mn to 10 mn			

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			
208-480 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
1 A to 10 A AC			

208-480 V AC 50/60 Hz	04.040.1/4.0/20	_	2 single contact relays (NO) 5 A
Thermistor with automatic reset	24-240 V AC/DC		
208-480 V AC 50/60 Hz		-	2 single contact relays (NO) 5 A
	24-240 V AC/DC		
_			
-			





Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

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