




Selection guide

C-Lynx modular housing, Control relays

Phase control (3-phase supply)



Phase failure										
Regeneration	Sequence / Asymmetry	Overvoltage / Undervoltage	Timing		Output(s)	Casing width (mm)	Meas. range (Self-powered)	Part number	Type	
	Yes / No	No / No	No		1 x 5 A changeover	17.5	208 ⇨ 480 V ~ - 50 / 60 Hz	84 873 022	MWG	
		No / -20 % ⇨ -2 %						84 873 023	MWU	
	Yes / 5 ⇨ 15 %	No / No	0.1 ⇨ 10 s					84 873 024	MWA	
		Window +2 ⇨ +20 % -20 ⇨ -2 %						84 873 025	MWUA	
	Yes / No	No / No	No		1 x 5 A changeover	17.5	208 ⇨ 480 V ~ - 50 / 60 Hz	84 873 020	MWS	
					1 x 5 A changeover			84 903 020	EMWS	
	No / No	+2 ⇨ +20 % / -20 ⇨ -2 %	0.3 ⇨ 30 s		2 x 5 A changeover			208 ⇨ 440 V ~ - 50 / 60 Hz	84 873 021	MWS2
			0.1 ⇨ 10 s		1 x 5 A changeover			208 ⇨ 480 V ~ - 50 / 60 Hz	84 873 222	M3US
	Yes / 5 ⇨ 15 %		0.1 ⇨ 10 s		2 x 5 A changeover			220 ⇨ 480 V ~ - 50 / 60 Hz	84 873 026	HWUA
	No / No		0.3 ⇨ 30 s						84 873 220	H3US
Loss of phase and neutral										
Regeneration	Sequence / Asymmetry	Overvoltage / Undervoltage	Timing		Output relay	Casing width (mm)	Meas. range (Self-powered)	Part number	Type	
	No / No	+2 ⇨ +20 % / -20 ⇨ -2 %	0.3 ⇨ 30 s		2 x 5 A changeover	35	120 ⇨ 277 V ~ - 50 / 60 Hz	84 873 221	H3USN	

Control relays

Motor temperature control and phase sequence and failure

Sensor	Test	Latching	Supply voltage		Output relay	Casing width (mm)	Supply	Part number	Type
	No	No	24 ⇨ 240 V ~		2 x 5 A NO	35	208 ⇨ 480 V ~	84 873 027	HWTM
	Reset on front panel	Yes						84 873 028	HWTM2

Single-phase DC voltage control with selectable latching

Measurement range	Functions	Hysteresis	Timing		Output relay	Casing width (mm)	Supply	Part number	Type
	Over / Undervoltage	5 % ⇨ 20 %	0.1 ⇨ 10 s		1 x 5 A changeover	17.5	Monitors its own supply voltage	84 872 140	MUS
								84 872 141	MUS
								84 872 142	MUS
	Over or Undervoltage	5 % ⇨ 50 %	0.1 ⇨ 3 s		2 x 5 A changeover	35	24 ⇨ 240 V ~	84 872 120	HUL
								84 872 130	HUH
								84 872 151	MUSF
65 ⇨ 260 V ~	Window	3% fixed	0.1 ⇨ 10 s		1 x 5 A changeover	17.5	Monitors its own supply voltage	84 872 152	MUSF

Current control (over or undercurrent)

Measurement range	Built-in CT	Hysteresis	Latching / Timing		Output relay	Casing width (mm)	Supply	Part number	Type
	Yes	15% fixed	No / No		1 x 5 A changeover	17.5	24 ⇨ 240 V ~	84 871 122	MIC
	No	5 % ⇨ 50 %	Yes / 0.1 ⇨ 3 s		2 x 5 A changeover	35		84 871 120	HIL
					84 871 130	HIH			

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Frequency control with window

Measurement range	Selectable latching	Hysteresis	Timing	Output relay	Casing width (mm)	Supply	Part number	Type
40 ⇒ 70 Hz	Yes	0.3 Hz fixed	0.1 ⇒ 10 s	2 x 5 A changeover	35	120 ⇒ 277 V ~	84 872 501	HHZ

Level control

Probe	Emptying / Filling	Level / Measurement range	Timing	Output relay	Casing width (mm)	Supply	Part number	Type
Resistive	Yes / Yes	1 or 2 / 250 ⇒ 1 MΩ	0.1 ⇒ 5 s	2 x 5 A changeover	35	24 ⇒ 240 V ~	84 870 700	HNM
Digital or PNP / NPN		1 or 2 / None		1 x 5 A changeover			84 870 710	HNE
Digital	No / Yes	1 / None	17.5	84 870 720	MNS			

Over/underspeed control

Sensor	Measurement range	Hysteresis	Timing	Output relay	Casing width (mm)	Supply	Part number	Type
3-wire NPN/PNP sensor, 0 ⇒ 30 V, NAMUR Volt-free contact	0.05 s ⇒ 10 min	5 % fixed	0.6 ⇒ 60 s	1 x 5 A changeover	35	24 ⇒ 240 V ~	84 874 320	HSV

Temperature control with window (lifts) according to EN81

Sensor	Built-in phase control	Measurement range	Timing	Output relay	Casing width (mm)	Supply	Part number	Type
3-wire Pt100	No	Low threshold -1 ⇒ +11°C High threshold +34 ⇒ +46°C	0.1 ⇒ 10 s	1 x 5 A changeover	35	24 ⇒ 240 V ~	84 874 110	HT81
3-wire Pt100				2 x 5 A NO			84 874 120	HT81-2
3-wire Pt100	Yes 480 V			2 x 5 A NO			84 874 130	HWT81

Industrial housing E, F, L, Control relays

Phase sequence or phase failure control

Regeneration	Sequence / Asymmetry	Overvoltage / Undervoltage	Timing	Output relay	Casing width (mm)	Meas. range (Self-powered)	Part number	Type
None	Yes / No	No / No	No	1 x 8 A changeover	22.5	200 ⇒ 500 V ~	84 892 299	EWS
				2 x 8 A changeover		200 ⇒ 460 V ~	84 873 004	EWS2




Voltage control with selectable latching

Measurement range	Functions	Hysteresis	Timing	Output relay	Casing width (mm)	Supply	Part number	Type
0.2 ⇒ 60 V ~	Over / Undervoltage	5 % ⇒ 50 %	0.1 ⇒ 3 s	1 x 8 A changeover	22.5	24 V =	84 872 020	EUL
						24 V ~	84 872 021	EUL
						120 V ~	84 872 023	EUL
						230 V ~	84 872 024	EUL
15 ⇒ 600 V ~	Over / Undervoltage	5 % ⇒ 50 %	0.1 ⇒ 3 s	1 x 8 A changeover	22.5	24 V =	84 872 030	EUH
						24 V ~	84 872 031	EUH
						120 V ~	84 872 033	EUH
						230 V ~	84 872 034	EUH






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Current control (over / undercurrent)

Measurement range	With CT	Hysteresis	Latching / Timing	Output relay	Casing width (mm)	Supply	Part number	Type
 2 ⇒ 500 mA	No	5 % ⇒ 50 %	Yes / 0.1 ⇒ 3 s	1 x 8 A changeover	22.5	24 V \equiv	84 871 020	EIL
						24 V \sim	84 871 021	EIL
						48 V \sim	84 871 022	EIL
						120 V \sim	84 871 023	EIL
						230 V \sim	84 871 024	EIL
 0.1 ⇒ 10 A	No	5 % ⇒ 50 %	Yes / 0.1 ⇒ 3 s	1 x 8 A changeover	22.5	24 V \equiv	84 871 030	EIH
						24 V \sim	84 871 031	EIH
						48 V \sim	84 871 032	EIH
						120 V \sim	84 871 033	EIH
						230 V \sim	84 871 034	EIH
 10 ⇒ 100 A	26 852 304	5 % ⇒ 50 %	Yes / 0.1 ⇒ 3 s	1 x 8 A changeover	22.5	24 V \equiv	84 871 040	EIT
						24 V \sim	84 871 041	EIT
						48 V \sim	84 871 042	EIT
						120 V \sim	84 871 043	EIT
						230 V \sim	84 871 044	EIT

Level control

Probe	Emptying / Filling	Level / Measurement range	Timing	Output relay	Casing width (mm)	Supply	Part number	Type
 Resistive	Yes / Yes	1 or 2 / 5 ⇒ 100 K Ω	No	1 x 8 A changeover	22.5	24 V \sim	84 870 201	ENR
						48 V \sim	84 870 202	ENR
						120 V \sim	84 870 203	ENR
						230 V \sim	84 870 204	ENR
						24 ⇒ 240 V \sim	84 870 200*	ENR*
 Resistive	Yes / Yes	2 / 250 Ω ⇒ 1 M Ω	0.1 ⇒ 5 s	1 x 8 A changeover	22.5	24 V \sim	84 870 211	ENRM
						48 V \sim	84 870 212	ENRM
						120 V \sim	84 870 213	ENRM
						230 V \sim	84 870 214	ENRM
						24 ⇒ 240 V \sim	84 870 210*	ENRM*
 Resistive	Yes / Yes	1 or 2 / 5 ⇒ 100 K Ω	No	1 x 8 A changeover	39 Plug-in 8-pin base	24 V \sim	84 870 301	LN
						120 V \sim	84 870 303	LN
						230 V \sim	84 870 304	LN
						24 V \sim	84 870 306	LN
						120 V \sim	84 870 308	LN
 Resistive	Combined with monitoring of wells	2 / 5 ⇒ 100 K Ω	No	1 x 8 A changeover	39 Plug-in 11-pin base	230 V \sim	84 870 309	LN
						24 V \sim	84 870 401	L2N
						120 V \sim	84 870 403	L2N
 Resistive	Yes / Yes + Alarm	2 / 5 ⇒ 100 K Ω	No	2 changeover	45	230 V \sim	84 870 404	L2N
						24 V \sim	84 870 501	FN
						48 V \sim	84 870 502	FN
						120 V \sim	84 870 503	FN
						230 V \sim	84 870 504	FN
		2 / 250 Ω ⇒ 5 K Ω					84 870 803	FN LS

Motor temperature control

Sensor	Test	Latching	Manual reset	Output relay	Casing width (mm)	Supply	Part number	Type
 PTC	No	Yes	No	1 x 8 A NO	22.5	24 V \sim	84 874 015	ETM
						120 V \sim	84 874 013	ETM
						230 V \sim	84 874 014	ETM
		Yes	Yes	1 x 8 A changeover		24 V \sim	84 874 025	ETM 2
						120 V \sim	84 874 023	ETM 2
 PTC	No	Yes	Yes	2 x 8 A changeover	22.5	230 V \sim	84 874 024	ETM 2
						24 V \sim	84 874 035	ETM 22
						120 V \sim	84 874 033	ETM 22
						230 V \sim	84 874 034	ETM 22

* Available in 2014. The casing of the new range will be different from the ones presented here. Further information can be found on the data sheets available at www.crouzet.com

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