

# X36P

- CONTROLLERS FOR REFRIGERATING UNITS
- FREQUENCY / VOLTAGE OUTPUT FOR INVERTER CONTROL FOR COMPRESSORS



## FEATURES

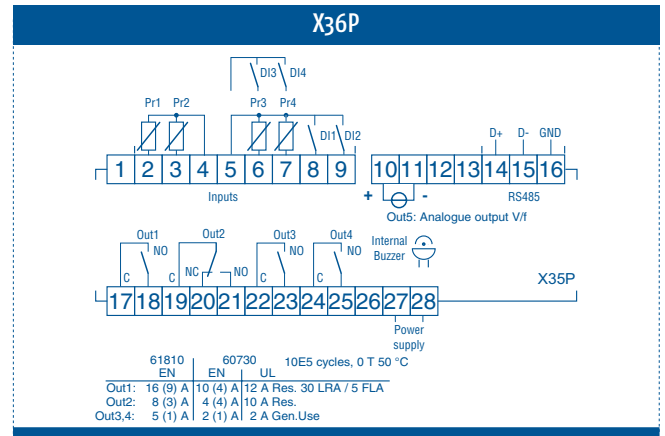
INPUTS	
Up to four	X36P PTC KTY 81-121 (990Ω at 25°C) -50... +109°C (-58... +228 °F) or NTC 103AT-2 (10kΩ at 25°C) -50...150°C (-58... +302 °F) or Pt1000 (1000Ω at 0 °C) -99.9... +300°C (-99.9 ... 572°F)
Digital inputs	2 digital inputs for free voltage contacts + 2 digital inputs as alternative to inputs Pr3 and Pr4
Accuracy	± 0.5 % fs + 1 digit
OUTPUTS	
Up to 5 (OUT1 and OUT2 are always on board)	OUT1: Relay SPST-NO-16A - 1HP 250V - EN 61810: 16 (9) A - EN 60730: 10 (4) A - UL 60730: 12A Res., 30 LRA, 5 FLA OUT2: Relay SPDT 8A - 1/2HP 250 V - EN 61810: 8 (3) A - EN 60730: 4 (4) A - UL 60730: 10A Res. OUT3 e OUT4: Relay SPST-NO 5A - 1/10HP 125/250 V - EN 61810: 5 (1) A - EN 60730: 2 (1) A - UL 60730: 2 A Gen.Use OUT5: in frequency (9... 12 VDC 250 Hz max) or analogue 0... 5 / 10V 12 A max. for plug-in version
Relay operations	OUT1, OUT2: 30000 operations according to EN 60730 OUT3, OUT4: 60000 operations according to EN 60730
FUNCTIONAL	
Control	ON/OFF or PID
Defrosting control	At intervals time, at reaching temperature, at programmed times by stopping compressor, by electrical heating or hot gas/reverse cycle
HACCP functions	With alarm recording
Programming	Through external panel P34 (optional) or dip switch
Real time clock	Internal clock to manage defrosting at programmed times
Events	Events programming by means of the internal clock-calendarly (14 daily events and 98 weekly events)
Serial communication	Not Isolated RS485 with Modbus RTU protocol and LIN communication
Baud rate	Selectable 9600, 19200 baud
GENERAL	
Power supply	12 Vac/Vdc, 12... 24 Vac/Vdc, 100...240 Vac ±10% (50/60 Hz)
Power consumption	6 VA approx.
Dimensions / Weight	87.5 x 28 mm - depth 71.3 mm or 83.8.5 mm mm with plug-in terminals / 150 g approx.
Connections	Screw terminal block 2.5 mm <sup>2</sup> or plu-in connector with screw terminals 2.5 mm <sup>2</sup>
Mounting	On OMEGA DIN rail
Front protection degree	IP20
Operating / storage temperature	0... +50°C (32... +122°F) / -25... +60°C (-13... +140°F)
Operating humidity	< 95 RH% without condensation
Conformity	Directive LV 2014/35/EU (EN 60730-1, EN 60730-2-9); UL60730-1, UL 60730-2-9. Directive EMC 2014/30/EU (EN55011: class B; EN61000-4-2: 8KV air, 4KV cont.; EN61000-4-3: 10V/m; EN61000-4-4: 2KV supply and relay outputs, 1KV inputs; EN61000-4-5: supply 2KV com. mode, 1 KV diff. mode; EN61000-4-6: 3V)

## HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

X36P	CODE
<b>POWER SUPPLY</b>	
12... 24 Vac/Vdc	G
100... 240 Vac/Vdc	H
12 Vdc	X
<b>OUT 3 + OUT 4</b>	
Relay SPST-NO 5A	R
OUT3 ONLY - Relay SPST-NO 5A	A
Not available	-
<b>OUT 5</b>	
Frequency (9... 12 VDC 250 Hz max)	F
Analogue 0... 5 / 10V (supply H only)	V
<b>CONNECTIONS</b>	
Plug-in screw type	E
Faston	F
Plug-in screw type, fix part only	N
Fix screw type (standard)	V
<b>SERIAL COMMUNICATION</b>	
RS485 not isolated + LIN	A
RS485 not isolated	X
LIN	L
<b>REAL TIME CLOCK</b>	
Available	C
Not available	-

## CONNECTIONS



## DIMENSIONS

