



**GASTROPARTS**

Universal Catalogue › Electric Components ›

# Electronic controllers

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[ES] Reguladores electrónicos

[FR] Régulateurs électroniques

[IT] Regolatori elettronici

[PL] Sterowniki

[RU] Электронные регуляторы

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# electronic controllers

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## electronic controllers

AKO

universal controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	interface RS485
1	378428	D14726-C	90-240	AC	2	CO-8A(4)	CO-8A(4)	-	NTC/PTC/Pt100/TC(J,K)/mA	DI	X
1	378429	D14727	12/24	AC/DC	2	CO-8A(4)	CO-8A(4)	-	NTC/PTC/Pt100/TC(J,K)/mA	DI	-
1	378430	D14729	230	AC	2	CO-8A(4)	CO-8A(4)	-	NTC/PTC/Pt100/TC(J,K)/mA	DI	-
1	378431	D14729-C	90-240	AC	2	CO-8A(4)	CO-8A(4)	-	NTC/PTC/Pt100/TC(J,K)/mA	DI	X
1	379926	D14724	12/24	AC/DC	2	CO-8A(4)	NO-8A(4)	-	NTC/PTC/Pt100/TC(J,K)/mA	DI	-
1	379927	D14726	230	AC	2	CO-8A(4)	NO-8A(4)	-	NTC/PTC/Pt100/TC(J,K)/mA	DI	-
2	379324	14721	12	AC/DC	2	CO-8A(4)	CO-8A(4)	-	Pt100	-	-
2	379383 <sup>1</sup>	14722	12	AC/DC	2	NO-16A(9)	CO-8A(4)	-	NTC	-	-
2	379384 <sup>1</sup>	14723	230	AC	2	NO-16A(9)	CO-8A(4)	-	NTC	NTC	-

<sup>1</sup>incl. 1x NTC probe

DIN rail



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
1	378246	15226	230	AC	2	CO-8A(4)	CO-8A(4)	NTC/PTC/Pt100/TC(J,K)/mA	DI
1	379750	15227	24	AC/DC	2	CO-8A(4)	CO-8A(4)	NTC/PTC/Pt100/TC(J,K)/mA	DI
1	379385 <sup>1</sup>	15223	230	AC	2	NO-12A(9)	CO-8A(4)	NTC	NTC

<sup>1</sup>incl. 1x NTC probe

## refrigeration controllers

## built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	interface RS485
1	379357 <sup>1</sup>	13112	12	AC/DC	1	NO-12A(9)	-	-	-	NTC	-	-	-	-
1	379358 <sup>1</sup>	13123	230	AC	1	NO-12A(9)	-	-	-	NTC	-	-	-	-
2	378424 <sup>1</sup>	D14123-2-RC	90-240	AC	1	CO-16A(10)	-	-	-	NTC/PTC	NTC/PTC/DI	DI	-	X
2	379507 <sup>1</sup>	D14123-2	230	AC	1	CO-16A(10)	-	-	-	NTC/PTC	NTC/PTC/DI	DI	-	-
2	379591 <sup>1</sup>	D14112	12/24	AC/DC	1	CO-12A(9)	-	-	-	NTC/PTC	NTC/PTC/DI	DI	-	X
2	379797 <sup>1</sup>	D14212	12	AC/DC	2	CO-12A(9)	CO-8A(4)	-	-	NTC	NTC/DI	DI	-	X
2	379314 <sup>1</sup>	D14223	230	AC	2	CO-12A(9)	CO-8A(4)	-	-	NTC/PTC	NTC/PTC/DI	DI	-	X
2	378425 <sup>1</sup>	D14323-C	90-240	AC	3	CO-12A(9)	NO-5A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC/DI	DI	-	X
2	379456 <sup>1</sup>	D14323	230	AC	3	CO-12A(9)	NO-5A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC/DI	DI	-	-
2	379514	D14323	230	AC	3	CO-12A(9)	NO-5A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC/DI	DI	-	-
2	379742 <sup>1</sup>	D14312	12	AC/DC	3	CO-12A(9)	NO-5A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC/DI	DI	-	-
2	378426 <sup>1</sup>	D14423	230	AC	4	NO-5A(4)	NO-5A(4)	NO-5A(4)	NO-5A(4)	NTC/PTC	NTC/PTC/DI	NTC/PTC/DI	-	-
2	379508 <sup>1</sup>	D14423-RC	90-240	AC	4	NO-5A(4)	NO-5A(4)	NO-5A(4)	NO-5A(4)	NTC/PTC	NTC/PTC/DI	NTC/PTC/DI	-	X
2	379737 <sup>1</sup>	D14412-RC	12	AC/DC	4	NO-5A(4)	NO-5A(4)	NO-5A(4)	NO-5A(4)	NTC/PTC	NTC/PTC/DI	NTC/PTC/DI	-	X
3	379408	D14125	230	AC	1	NO-12A(9)	-	-	-	NTC/PTC	-	-	-	-
3	379460 <sup>1</sup>	D14123	230	AC	1	NO-12A(9)	-	-	-	NTC/PTC	-	-	-	-
4	378310 <sup>1</sup>	D10123	230	AC	1	CO-12A(9)	-	-	-	NTC/PTC	DI	DI	-	-
4	378427 <sup>1</sup>	D10223	230	AC	2	CO-12A(9)	CO-8A(4)	-	-	NTC/PTC	NTC/PTC/DI	DI	-	-
4	379811 <sup>1</sup>	D10323	230	AC	3	CO-12A(9)	NO-5A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC/DI	DI	-	-

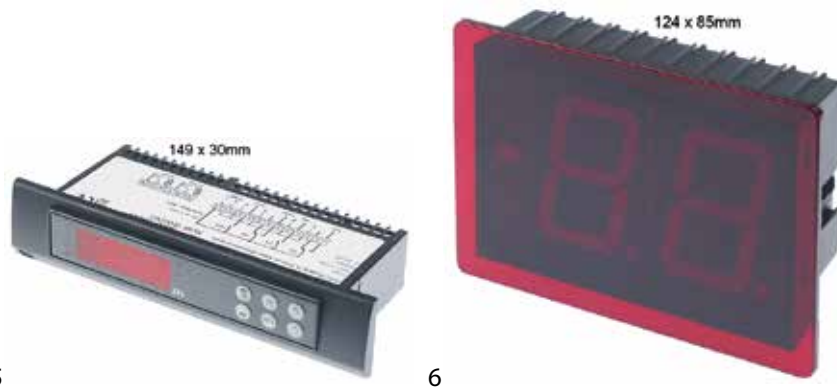
<sup>1</sup>incl. 1x NTC probe

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	interface RS485
5	379861 <sup>1</sup>	10123	230	AC	2	NO-12A(9)	CO-8A(4)	-	-	NTC	DI	-	-	-
5	379862 <sup>1</sup>	10223	230	AC	3	NO-12A(9)	NO-8A(3)	CO-8A(4)	-	NTC	NTC/DI	DI	-	-
5	379863 <sup>1</sup>	10323	230	AC	4	NO-12A(9)	CO-8A(4)	NO-8A(4)	CO-8A(4)	NTC	NTC/DI	DI	-	-
6	379810 <sup>1</sup>	D16323	90-240	AC	3	CO-12A(9)	NO-5A(4)	NO-12A(9)	-	NTC/PTC	NTC/PTC	DI	DI	X

<sup>1</sup>incl. 1x NTC probe



## DIN rail



1

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	HACCP	real time clock	buzzer internal
1	379360 <sup>1</sup>	AKOTIM-21TE	230	AC	1	NO-12A(9)	-	-	-	NTC	NTC	NTC	DI	-	-	-
1	379379 <sup>1</sup>	AKOTIM-22TE	230	AC	2	NO-12A(9)	CO-8A(4)	-	-	NTC	NTC	NTC	DI	-	-	-
1	379380 <sup>1</sup>	AKOTIM-21ARTEB	230	AC	2	NO-12A(9)	NO-5A(4)	-	-	NTC	NTC	DI	-	X	X	X
1	379361 <sup>1</sup>	AKOTIM-23TE	230	AC	3	NO-12A(9)	CO-8A(4)	NO-5A(4)	-	NTC	NTC	NTC	DI	-	-	X
1	379381 <sup>1</sup>	AKOTIM-22ARTEB	230	AC	3	NO-12A(9)	CO-8A(4)	NO-5A(4)	-	NTC	NTC	NTC	DI	X	X	X
1	379362 <sup>1</sup>	AKOTIM-23ATE	230	AC	4	NO-12A(9)	CO-8A(4)	NO-5A(4)	NO-5A(4)	NTC	NTC	NTC	DI	-	-	X

<sup>1</sup>incl. 1x NTC probe

## wall-mounted

120 x 80 mm



1

174 x 94 mm



2

214 x 214 mm



3

fig.	Part No.	type	supply (VAC)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	input 5	HACCP	buzzer internal	interface RS 485	printer
1	379127 <sup>1</sup>	14615	230	AC	1	NO-12A(9)	-	-	-	-	-	NTC	-	-	-	-	-	-	-	-
2	378042 <sup>1</sup>	D14610	230	AC	1	NO-12A(9)	-	-	-	-	-	NTC/PTC	-	-	-	-	-	-	-	-
2	378432 <sup>1</sup>	D14622	230	AC	2	NO-12A(9)	NO-5A(4)	-	-	-	-	NTC/PTC	-	-	-	-	-	-	-	-
2	378434 <sup>1</sup>	D14632-C	230	AC	3	NO-12A(9)	CO-8A(4)	NO-12A(4)	-	-	-	NTC/PTC	NTC/PTC	NTC/PTC/DI	DI	-	-	-	X	-
2	378041 <sup>1</sup>	D14632	230	AC	3	NO-12A(9)	CO-8A(4)	NO-5A(4)	-	-	-	NTC/PTC	NTC/PTC/DI	DI	-	-	-	-	-	-
2	378433 <sup>1</sup>	D14622-C	90-240	AC	3	NO-12A(9)	NO-5A(4)	NO-5A(4)	-	-	-	NTC/PTC	DI	DI	-	-	-	-	X	-
2	378052 <sup>1</sup>	D14642	230	AC	4	NO-12A(9)	CO-8A(4)	NO-5A(4)	NO-5A(4)	-	-	NTC/PTC	NTC/PTC	DI	DI	-	-	-	-	-
2	378435 <sup>1</sup>	D14642-C	90-240	AC	4	NO-12A(9)	CO-8A(4)	NO-5A(4)	NO-5A(4)	-	-	NTC	NTC	DI	DI	-	X	-	X	-
3	378053 <sup>1</sup>	15613	230	AC	3	NO-16A	NO-16A	CO-8A	-	-	-	NTC/PTC	DI	DI	-	-	X	X	X	-
3	378055 <sup>1</sup>	15633	230	AC	6	NO-16A	CO-16A	NO-8A	NO-16A	NO-16A	CO-8A	NTC	NTC	NTC	DI	DI	X	X	X	-

<sup>1</sup>incl. 1x NTC probe



fig.	Part No.	type	supply (VAC)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	input 5	HACCP	buzzer internal	interface RS485	printer
4	378054 <sup>1</sup>	156131	100-240	AC	3	NO-16A	NO-16A	CO-8A	-	-	-	NTC/PTC	DI	DI	-	-	X	X	X	X
4	378049 <sup>1</sup>	156331	100-240	AC	6	NO-16A	CO-16A	NO-8A	NO-16A	NO-16A	CO-8A	NTC	NTC	NTC	DI	DI	X	X	X	X

<sup>1</sup>incl. 1x NTC probe

controllers for walk-in fridge

compressor single-phase



fig.	Part No.	type	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	HACCP	real time clock	buzzer internal	interface RS485
1	378462 <sup>1</sup>	15627	5	CO-11A(11)	2.5kW/1P	NO-3A(3)	NO-2A(2)	CO-2A(2)	-	NTC	NTC	DI	DI	-	-	X	X
2	378463	15645	5	NO-11A(11)	2.5kW/1P	NO-3A(3)	NO-2A(2)	CO-2A(2)	-	NTC	NTC	DI	DI	-	-	X	X

<sup>1</sup>incl. 1x emergency switch + NTC probe



fig.	Part No.	type	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	HACCP	real time clock	buzzer internal	interface RS485
3	378464 <sup>1</sup>	15645	5	CO-11A(11)	2.5kW/1P	NO-3A(3)	NO-2A(2)	CO-2A(2)	-	NTC	NTC	DI	DI	-	-	X	X
4	378466	15648	5	CO-9A(9)	5.5kW/3P	NO-3A(3)	CO-2A(2)	NO-2A(2)	-	NTC	NTC	DI	DI	-	-	X	X

<sup>1</sup>incl. 1x emergency switch + NTC probe

fig.	Part No.	type	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	HACCP	real time clock	buzzer internal	interface RS485
5	379816 <sup>1</sup>	15643	6	CO-20A(8)	5.5kW/3P	NO-2.2A(2.2)	NO-2.2A(2.2)	CO-8A(4)	NO-2.2A(2.2)	NTC	NTC	NTC	DI	X	X	X	X

<sup>1</sup>Junction box incl. 2xNTC probes



compressor 3-phase



fig.	Part No.	type	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	HACCP	real time clock	buzzer internal	interface RS485
1	378467	15680	6	2.5-4A	7kW/3P	NO-3A(3)	NO-2A(2)	NO-2A(2)	CO-8A(4)	NTC/PTC	NTC/PTC	NTC/PTC	DI	X	X	X	X
1	379817 <sup>1</sup>	15681	6	4-6,3A	7kW/3P	NO-3A(3)	NO-2A(2)	NO-2A(2)	CO-8A(4)	NTC/PTC	NTC/PTC	NTC/PTC	DI	X	X	X	X
1	378468	15682	6	6.3-10A	7kW/3P	NO-3A(3)	NO-2A(2)	NO-2A(2)	CO-8A(4)	NTC/PTC	NTC/PTC	NTC/PTC	DI	X	X	X	X

<sup>1</sup>incl. 2x NTC probe

controllers with alarm system



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	relay output 7	input 1	input 2	input 3	input 4	emergency switch	HACCP	real time clock	buzzer internal	interface RS485
1	378050 <sup>1</sup>	156332	230	AC	7	NO-12A(9)	CO-12A(9)	NO-8A(4)	NO-12A(9)	NO-12A(9)	CO-8A(4)	CO-8A(4)	NTC	NTC	DI	DI	up to 4	X	X	X	X
2	378051 <sup>2</sup>	52063	230	AC	1	CO-8A(4)	-	-	-	-	-	-	-	-	-	-	up to 1	-	-	X	X
2	378063 <sup>2</sup>	52064	230	AC	1	CO-8A(4)	-	-	-	-	-	-	-	-	-	-	up to 4	-	-	X	X
3	378064	520631	230	AC	1	CO-8A(4)	-	-	-	-	-	-	-	-	-	-	up to 1	-	-	X	X
3	378065	520641	230	AC	1	CO-8A(4)	-	-	-	-	-	-	-	-	-	-	up to 4	-	-	X	X

<sup>1</sup>incl. 1x emergency switch + NTC probe <sup>2</sup>incl. 1x emergency switch





4

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	relay output 7	input 1	input 2	input 3	input 4	emergency switch	HACCP	real time clock	buzzer internal	interface RS485
4	378062	52062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

central refrigeration controllers



1



2

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	input 5	input 6	input 7	interface RS485
1	378460 <sup>1</sup>	14540	12	AC	5	NO-2A(2)	NO-2A(2)	NO-2A(2)	NO-2A(2)	CO-2A(2)	NTC	DI	DI	DI	DI	DI	DI	-
2	378469 <sup>1</sup>	14545	12	AC	7	NO-5A(4)	NO-5A(4)	NO-5A(4)	NO-5A(4)	CO-5A(4)	NTC	DI	DI	DI	DI	DI	DI	-
2	378470 <sup>1</sup>	14545-C	12	AC	7	NO-5A(4)	NO-5A(4)	NO-5A(4)	NO-5A(4)	CO-5A(4)	NTC	DI	DI	DI	DI	DI	DI	X

<sup>1</sup>without probe, free relays allocation

## data loggers



fig.	Part No.	type	supply (VAC)	probe type	alarm relay	inputs	HACCP	real time clock	buzzer internal	interface RS485	printer
1	379845 <sup>1</sup>	15724	220-240	NTC/mA/DI	CO-8A(4)	2 channels	-	-	X	-	-
1	379846 <sup>1</sup>	15725	220-240	NTC/mA/DI	CO-8A(4)	2 channels	-	-	X	X	-
2	378448 <sup>2</sup>	15780	100-240	NTC/Pt100/Pt1000/mA/DI	CO-8A(4)	2 channels	-	-	X	X	-
2	378056 <sup>3</sup>	15750	220-240	NTC/Pt100/Pt1000/mA/DI	CO-8A(4)	5 channels	-	-	X	X	-
2	378058 <sup>3</sup>	15740	100-240	NTC/PT1000/mA/DI	CO-8A(4)	10 channels	-	-	X	X	-

<sup>1</sup>NTC probe/SD card/USB reader <sup>2</sup>incl. 2x NTC probe <sup>3</sup>incl. 5x NTC probe



fig.	Part No.	type	supply (VAC)	probe type	alarm relay	inputs	HACCP	real time clock	buzzer internal	interface RS485	printer
3	378449 <sup>1</sup>	15782	100-240	NTC/Pt100/Pt1000/mA/DI	CO-8A(4)	2 channels	-	-	X	X	X
3	378057 <sup>2</sup>	15752	100-240	NTC/Pt100/Pt1000/mA/DI	CO-8A(4)	5 channels	-	-	X	X	X
3	378059 <sup>2</sup>	15742	100-240	NTC/PT1000/mA/DI	CO-8A(4)	10 channels	-	-	X	X	X

<sup>1</sup>incl. 2x NTC probe <sup>2</sup>incl. 5x NTC probe



1

2

fig.	Part No.	type	supply (VAC)	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	input 5	HACCP	real time clock	buzzer internal	interface RS485	printer
1	378053 <sup>1</sup>	15613	230	3	NO-16A	NO-16A	CO-8A	-	-	-	NTC/PTC	DI	DI	-	-	X	X	X	X	-
1	378055 <sup>1</sup>	15633	230	6	NO-16A	CO-16A	NO-8A	NO-16A	NO-16A	CO-8A	NTC	NTC	NTC	DI	DI	X	X	X	X	-
2	378054 <sup>1</sup>	156131	100-240	3	NO-16A	NO-16A	CO-8A	-	-	-	NTC/PTC	DI	DI	-	-	X	X	X	X	X
2	378049 <sup>1</sup>	156331	100-240	6	NO-16A	CO-16A	NO-8A	NO-16A	NO-16A	CO-8A	NTC	NTC	NTC	DI	DI	X	X	X	X	X

<sup>1</sup>incl. 1x NTC probe

## accessories



1

2

3

4

fig.	Part No.	description	description
1	379189	thermal paper AKO type AKO-15703 suitable for AKO data logger	
2	379815	software AKO type AKO-5010 AKONET for electronic controller with converter USB/RS485	
3	403162	software AKO type SOFTRegis version 1.0.22	
4	378078	transducer type AKO-80004A inlet Pt100 outlet 4-20mA AKO 6-32V voltage DC	

5		6	
fig.	Part No.	description	description
5	698505		This GSM switching module is designed to remotely switch devices on or off via the GSM network. In addition, the status of all inputs and outputs can be queried remotely by using SMS commands. The product is equipped with two optocoupler inputs and two potential-free relay outputs. The GSM switching module is configured via SMS. The power supply is between 4.8 and 6 V/DC. Optionally, the GSM switching module can be used with a backup battery (not included in delivery).
6	401019	GSM module AKO type AKO-52043 suitable for AKO/Universal GSM/GPRS Modem 4	The AKO-52043 device is a 3G modem that allows the function of sending alarms via SMS messages in AKOnet and AKOnet Trace software.

electronic thermometers

built-in version

1		2									
fig.	Part No.	type	volt. (V)	voltage	probe type	fig.	Part No.	type	volt. (V)	voltage	probe type
1	379359 <sup>1</sup>	13012	12	AC/DC	NTC	2	379518 <sup>1</sup>	D14023	230	AC	NTC/PTC
1	379366 <sup>1</sup>	13023	230	AC	NTC	2	379812 <sup>1</sup>	DH14023	230	AC	NTC
2	379517 <sup>1</sup>	D14012	12/24	AC/DC	NTC/PTC						

<sup>1</sup>incl. 1x NTC probe

wall-mounted

1		2											
fig.	Part No.	type	volt. (V)	voltage	probe type	protection	fig.	Part No.	type	volt. (V)	voltage	probe type	protection
1	379126	14605	230	AC	NTC	IP40	2	378015	14602	230	AC	NTC/PTC	IP54

**accessories****voltage supply**

1

fig.	Part No.	description
1	379159	transformer primary 230V secondary 24VDC type 80014A AKO output current 1A

**switches**

1

2

fig.	Part No.	description
1	378062	emergency switch AKO type AKO-52062
2	378485	switch AKO type AKO-520622 wall-mounted version 1NO/indicator light for walk-in cold room

**BRAIN CHILD****universal controllers****built-in version**

1

**technical data:**  
supply 90-264V  
voltage type AC

fig.	Part No.	type	model	measuring range (°C)	MM (mm)	relay outputs	relay output 1	input 1
1	381269	BTC404	41311000	0 up to +200	92x92	1	CO-5A(4)	TC (J)
1	381273	BTC404	43311000	0 up to +200	92x92	1	CO-5A(4)	Pt100
1	379839	BTC404	41411000	0 up to +300	92x92	1	CO-5A(4)	TC (J)
1	381274	BTC404	43411000	0 up to +300	92x92	1	CO-5A(4)	Pt100
1	379840	BTC404	41511000	0 up to +400	92x92	1	CO-5A(4)	TC (J)
1	381275	BTC404	43511000	0 up to +400	92x92	1	CO-5A(4)	Pt100
1	379841	BTC404	41611000	0 up to +600	92x92	1	CO-5A(4)	TC (J)
1	381276	BTC404	43611000	0 up to +600	92x92	1	CO-5A(4)	Pt100

CAREL

refrigeration controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	HACCP	buzzer internal
1	378030	PJEZSNH000K	230	AC	1	CO-12A(2)	-	-	-	-	NTC	NTC	-	-	-	X
2	378143 <sup>1</sup>	IR33S0LR00	12/24	AC/DC	1	CO-12A(2)	-	-	-	-	NTC	NTC	DI	DI	-	X
2	378144 <sup>1</sup>	IR33S0ER00	240	AC	1	CO-12A(2)	-	-	-	-	NTC	NTC	DI	-	-	X
2	378476	IR33S0EHA0	230	AC	1	CO-16A(4)	-	-	-	-	NTC	NTC	DI	-	-	X
2	378477	IR33Y0EHA0	230	AC	2	CO-16A(4)	CO-8A(4)	-	-	-	NTC	NTC	DI	-	-	X
2	378327	IR33S0EA00	230	AC	2	CO-8A(4)	CO-8A(4)	-	-	-	NTC	NTC	DI	-	-	X
2	378183 <sup>1</sup>	IR33Y00N00	12	AC/DC	2	CO-12A(2)	CO-8A(4)	-	-	-	NTC	NTC	DI	DI	-	X
2	378478	IR33F0HN00	115-230	AC	3	CO-12A(2)	CO-8A(4)	CO-8A(4)	-	-	NTC	NTC	DI	DI	-	X
2	379509	IRELF0HN245	115/230	AC	3	CO-12A(4)	CO-8A(4)	CO-8A(4)	-	-	NTC	NTC	DI	-	-	X
2	379512	IRELF0EN215	230	AC	3	CO-8A(4)	CO-8A(4)	CO-6A(1)	-	-	NTC	NTC	DI	-	-	X
2	378145 <sup>1</sup>	IR33C0HB00	115/230	AC	4	CO-12A(2)	CO-8A(4)	CO-8A(4)	CO-8A(4)	-	NTC	NTC	DI	DI	X	X
2	378181 <sup>1</sup>	IR33C0LB00	12/24	AC/DC	4	CO-12A(2)	CO-8A(4)	CO-8A(4)	CO-8A(4)	-	NTC	NTC	DI	DI	X	X
2	378182 <sup>1</sup>	IR33C0LN00	12/24	AC/DC	4	CO-12A(2)	CO-8A(4)	CO-8A(4)	CO-8A(4)	-	NTC	NTC	DI	DI	-	X
2	378333 <sup>1</sup>	IRMEC0HB011	115-230	AC	4	CO-12A(2)	CO-8A(4)	CO-8A(4)	CO-8A(4)	-	NTC/PTC	NTC/PTC	DI	DI	-	-
3	378329	PYAO1C0522	230	AC	1	CO-12A(2)	-	-	-	-	NTC	-	-	-	-	X
3	378474	PJEZS0P0E0	230	AC	1	CO-16A(4)	-	-	-	-	NTC	-	-	-	-	X
3	378473	PJEZS000E0	230	AC	1	CO-8A(4)	-	-	-	-	NTC	-	-	-	-	X
3	378326	PYMT1Z054G	230	AC	1	CO-12A(2)	-	-	-	-	NTC	NTC	DI	-	-	X
3	378295	PJEZS0G000	230	AC	2	NO-10A(10)	NO-8A(4)	-	-	-	NTC	NTC	-	-	-	X
3	378475	PJEZC0P000	230	AC	3	NO-16A(10)	CO-8A(4)	NO-8A(4)	-	-	NTC	NTC	-	-	-	X
3	379779	PYC01L051G	230	AC	3	CO-8A(4)	NO-8A(4)	NO-8A(4)	-	-	NTC	NTC	DI	-	-	X
3	378283	PYIL1U0525	230	AC	3	NO-10A(10)	CO-12A(2)	NO-8A(4)	-	-	NTC	NTC	DI	-	-	X
3	378370	PYAO1R0523	230	AC	3	NO-10A(10)	CO-8A(4)	NO-8A(4)	-	-	NTC	NTC	DI	-	-	X
4	378421	IREVY0EHA01	230	AC	2	NO-12A(4)	CO-8A(4)	-	-	-	NTC	NTC	DI	-	-	X

<sup>1</sup>with IR/RS-485 interface



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	HACCP	buzzer internal
5	378491	PZIAC0H010K	230	AC	3	NO-12A	CO-8A	NO-8A	-	-	NTC	NTC	-	-	-	-
6	378479	PB00S0EA00	230	AC	2	CO-8A(4)	CO-8A(4)	-	-	-	NTC	NTC	DI	DI	-	X
6	378480	PB00F0HA00	115-230	AC	4	CO-12A(2)	CO-8A(4)	NO-8A(4)	NO-8A(4)	-	NTC	NTC	DI	DI	-	X
6	378481	PB00C0HB00	115-230	AC	4	NO-10A(10)	CO-12A(2)	NO-8A(4)	CO-8A(4)	-	NTC	NTC	DI	DI	X	X
6	378236 <sup>1</sup>	PBMEH0HB111	115-230	AC	5	NO-10A(10)	CO-12A(2)	NO-8A(4)	NO-8A(4)	CO-8A(4)	NTC	NTC	DI	DI	X	X
7	402160	PBIFY0EVD51	230	AC	3	CO-8A(4)	CO-8A(4)	NO-5A(4)	-	-	NTC	NTC	DI	DI	-	X
7	403512	PBIFC0HND61	230	AC	4	NO-10A(10)	CO-12A(2)	NO-8A(4)	CO-8A(4)	-	NTC	NTC	DI	DI	-	X

<sup>1</sup>with IR/RS-485 interface

### built-in version 2-piece

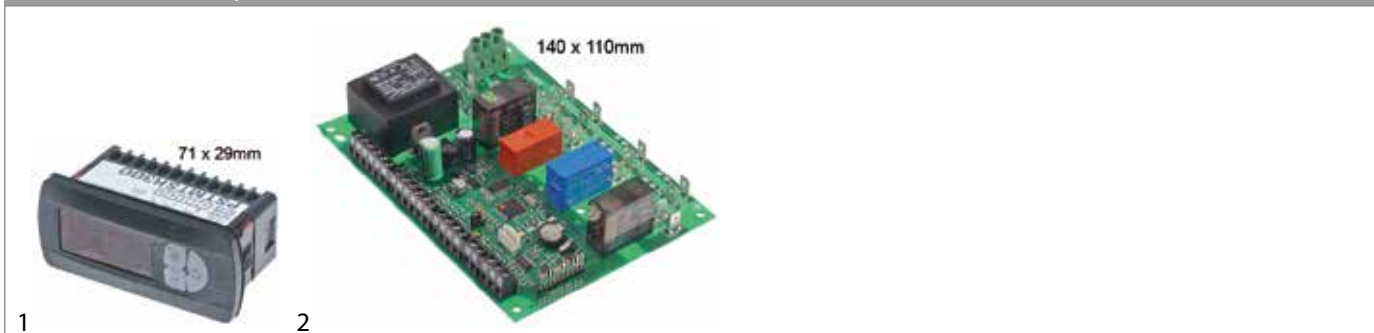


fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	HACCP	buzzer internal
1	378251	PST	-	-	-	-	-	-	-	-	-	-	-	-	-
2	378465	PSB0001000	230	AC	4	NO-16A(12)	CO-16A(12)	NO-10A(4)	NO-16A(12)	NTC	NTC	DI	DI	X	X



DIN rail



1

**technical data:**  
supply 115-230V  
voltage type AC

fig.	Part No.	type	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	buzzer internal	interface RS485
1	378482	DN33S0HA00	2	NO-10A(10)	CO-8A(4)	-	-	NTC	DI	DI	DI	X	-
1	378483	DN33C0HB00	4	NO-10A(10)	CO-12A(2)	CO-8A(4)	CO-8A(4)	NTC	DI	DI	DI	X	IR/RS-485

accessories



1

fig.	Part No.	description
1	378255	frame plastic black W 197mm H 50mm for CAREL



controllers for walk-in fridge



**technical data:**  
supply 230V  
voltage type AC

fig.	Part No.	type	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	buzzer internal	interface RS485
1	378146	MD33D5FB00	5	CO-30A(12)	CO-16A(8)	CO-10A(5)	CO-10A(5)	CO-16A(3)	NTC	DI	DI	DI	X	IR/RS-485
2	378176	MD33D5EN00	5	CO-30A(12)	CO-16A(8)	CO-10A(5)	CO-10A(5)	CO-16A(3)	NTC	DI	DI	DI	X	-

DANFOSS

universal controllers



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	input 1
1	379821	EKC102A	230	AC	1	CO-10A(6)	NTC/PTC/Pt1000

DIXELL

universal controllers



pos.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2	input 3
1	378008	XT110C-0C0KU-	12	AC/DC	1	CO-8A(3)	-	NTC/PTC/Pt100/Pt1000/TC(J,K)	DI	-
2	403393	XT110C-5H1AU	230	AC	1	CO-8A(3)	-	mV/mA	DI	DI
3	378220	XT110C-5C0TU	230	AC	1	CO-8A(3)	-	NTC/PTC/Pt100/TC(J,K)	DI	-
4	378007	XT111C-0C0TU	12	AC/DC	2	CO-8A(3)	NO-5A(3)	NTC/PTC/Pt100/TC(J,K)	DI	-

refrigeration controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	buzzer internal
1	402157	XR20C-0R0C3	12	AC/DC	CO-16A(5)	-	-	-	-	-	NTC/PTC	-	-	-	-
1	378249	XR20C-1P3C0	24	AC/DC	CO-8A(3)	-	-	-	-	-	NTC/PTC	DI	-	-	-
1	402158	XR40C-0R0C3	12	AC/DC	CO-16A(5)	CO-16A(5)	-	-	-	-	NTC/PTC	NTC/PTC	-	-	-
1	378307	XR40C-5N1C1	230	AC	NO-20A(8)	CO-8A(3)	-	-	-	-	NTC/PTC	DI	-	-	-
2	402192	XR10CX-5N0C0	230	AC	CO-8A(3)	-	-	-	-	-	NTC/PTC	DI	-	-	-
2	379468	XR20CX-0P1C1	12	AC/DC	NO-20A(8)	-	-	-	-	-	NTC/PTC	DI	-	-	X
2	379661	XR20CX-0N0C0	12	AC/DC	CO-8A(3)	-	-	-	-	-	NTC/PTC	DI	-	-	-
2	379996	XR20CX-5N0C0	230	AC	CO-8A(3)	-	-	-	-	-	NTC/PTC	DI	-	-	-
2	378000	XR20CX-5N0C1	230	AC	NO-20A(8)	-	-	-	-	-	NTC/PTC	NTC/PTC/DI	-	-	-
2	378384	XR40CX-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	-	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
2	379665	XR30CX-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	-	-	-	-	NTC/PTC	DI	-	-	-
2	379664	XR30CX-5N0C0	230	AC	NO-8A(3)	CO-8A(3)	-	-	-	-	NTC/PTC	DI	-	-	-
2	378363	XR06CX-5R0C1	230	AC	NO-20A(8)	CO-8A(3)	NO-5A(2)	-	-	-	NTC	NTC	DI	-	-
2	402144	XR60CX-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	NO-5A(2)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
2	378112	XR60CX-0N0C0	12	AC/DC	NO-8A(3)	CO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
2	378224	XR60CX-5N0C0	230	AC	NO-8A(3)	CO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
2	378492	XR72CX	12	AC/DC	NO-16A	NO-8A	NO-8A	NO-5A	-	-	NTC/PTC	NTC/PTC	NTC/PTC	-	-
2	378221	XR70CX-5N0C3	230	AC	NO-16A(5)	CO-8A(3)	NO-5A(2)	NO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI	-	-
3	378267	XR02CX-5N0C1	230	AC	NO-20A(8)	-	-	-	-	-	NTC	DI	-	-	-
4	378388	XW220L-5N0C1	230	AC	NO-20A(8)	NO-16A(5)	-	-	-	-	NTC	NTC	DI	DI	X
4	378228	XW20L-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	-	-	-	-	NTC/PTC	DI	-	-	-
4	379655	XW40L-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	DI	DI	-
4	403533	XW60L-5L0C0-R	230	AC	NO-20A(8)	CO-8A(3)	NO-8A(3)	NO-16A(5)	-	-	NTC/PTC	NTC/PTC	DI	-	-
4	378389	XW230L-5N0C0	230	AC	NO-20A(8)	NO-16A(5)	NO-8A(3)	NO-16A(5)	-	-	NTC	NTC	DI	DI	X
4	378229	XW60L-5N0C1	230	AC	CO-20A(8)	CO-8A(3)	NO-8A(3)	NO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI	-	-
4	379699	XW60L-5L0D0-X	230	AC	NO-20A(8)	CO-8A(3)	NO-8A(3)	NO-16A(5)	-	-	NTC/PTC	NTC/PTC	DI	-	-
4	402036	XW260L-5N0C0	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	NO-16A(5)	-	-	NTC	NTC	DI	DI	X
4	378386	XW264L-5N0C5	230	AC	NO-20A(8)	CO-8A(3)	CO-8A(3)	NO-8A(3)	NO-16A(5)	-	NTC	NTC	DI	DI	X
4	378456	XB570L-5N1C1-X	230	AC	NO-20A(12)	NO-8A(3)	NO-8A(3)	NO-16A(3)	NO-16A(3)	NO-8A(3)	NTC/PTC	NTC/PTC	NTC/PTC	NTC/PTC	X
4	378254	XB570L-5R0C1-X	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	NO-16A(5)	NO-8A(3)	NO-16A(5)	NTC	NTC	DI	DI	X
4	379657	XW271L-5N0C0	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	NO-16A(5)	NO-8A(3)	NO-16A(5)	NTC	NTC	NTC	DI	-



fig.	Part No.	type	supply (V)	voltage	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	buzzer internal
5	378222	XW20LS-5N0C1	230	AC	NO-20A(8)	NO-8A(3)	-	-	-	-	NTC/PTC	DI	-	-	-
5	378387	XW40LS-5N0C1	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
5	378223	XW60LS-5N0C1	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
5	402193	AI002AA075	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	-	-	-
5	402011	XW60L-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	NO-8A(3)	NO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI	-	-
6	378377	XW20VS-5N0C0	230	AC	NO-16A(8)	CO-16A(5)	-	-	-	-	NTC/PTC	DI	-	-	-
6	378461	XW30V-5N0C1-R	230	AC	NO-20A(8)	NO-8A(3)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-
6	378422	XW60VS-5N0C0	230	AC	NO-16A(8)	CO-16A(5)	NO-8A(3)	-	-	-	NTC/PTC	NTC/PTC	NTC/PTC	DI	-
6	378423	XW60V-5N0C1	230	AC	NO-20A(8)	CO-8A(3)	NO-8A(3)	NO-16A(5)	-	-	NTC/PTC	NTC/PTC	DI	-	-

built-in version 2-piece

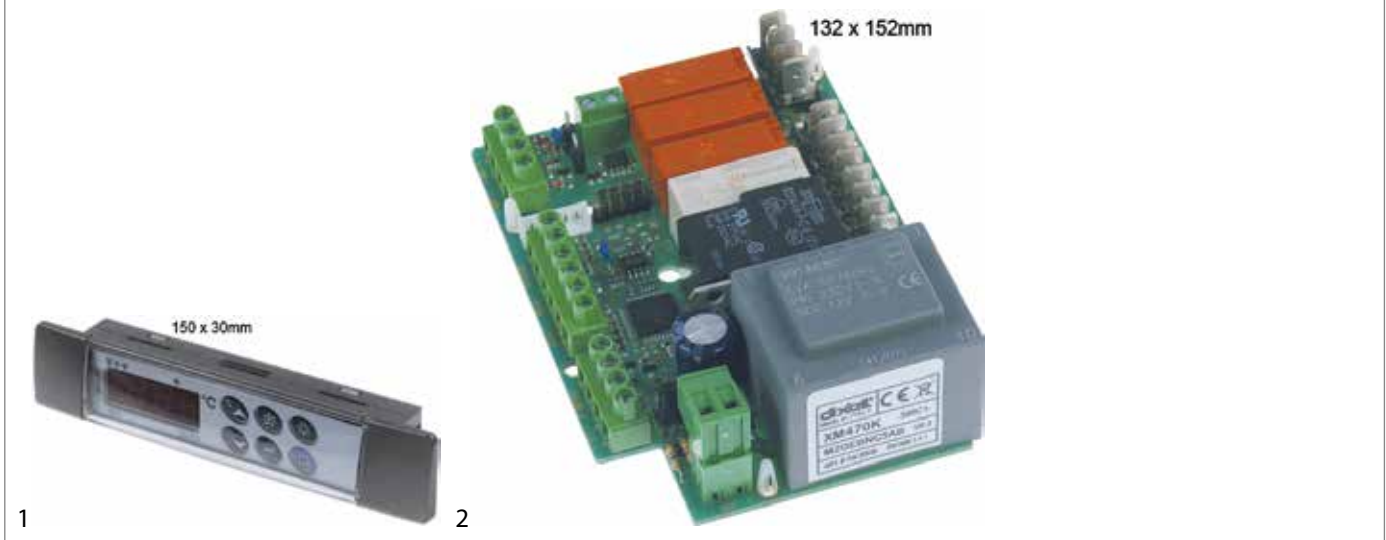


fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
1	378278	T640	-	-	-	-	-	-	-	-	-	-	-
2	402068	XM470K-500C1	230	AC	4	NO-8A(3)	NO-20A(8)	NO-8A(3)	NO-16A(3)	NTC	NTC	NTC	-
2	378490	XM470K-510C1	230	AC	5	NO-20A	NO-16A	NO-8A	NO-8A	NTC	NTC	NTC	digital

3														
fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	
3	378442	T820-000C0	-	-	-	-	-	-	-	-	-	-	-	
4	378385	XW270K-5N0C0	230	AC	6	NO-20A(8)	NO-8A(3)	NO-8A(3)	NO-16A(5)	NTC	NTC	DI	DI	

5													
fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
5	379658	T620-000C0	-	-	-	-	-	-	-	-	-	-	-
6	378226	V620-000C0	-	-	-	-	-	-	-	-	-	-	-
4	379660	XW220K-5N0C0	230	AC	2	NO-20A(8)	NO-16A(5)	-	-	NTC	NTC	DI	DI
4	378225	XW260K-5N0C0	230	AC	4	NO-20A(8)	NO-16A(5)	NO-16A(5)	NO-16A(5)	NTC	NTC	DI	DI

7													
fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
7	381245	DX60	-	-	-	-	-	-	-	-	-	-	-
8	381246 <sup>1</sup>	XW60K-5L1CO	230	AC	4	NO-20A(8)	NO-16A(5)	NO-8A(3)	NO-16A(5)	NTC	NTC	DI	DI

<sup>1</sup>humidity range 20-85% rH

accessories

1													
fig.	Part No.	description											
1	381247	data ribbon conector DIXELL											



## electronic thermometers

## built-in version



1

fig.	Part No.	type	supply (V)	voltage	Templin1	fig.	Part No.	type	supply (V)	voltage	Templin1
1	378046	XT11S	24	AC/DC	NTC	1	378257	XT11S-500	230	AC	NTC

## EKTRON

## refrigeration controllers

## built-in version



2



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2
1	379542	TEK31-0010	12	AC/DC	1	CO-8A(4)	-	-	PTC	-
1	379397	DEK31-1000A	12	AC/DC	2	CO-8A(4)	NO-8A(4)	-	Pt100	-
2	378034	REK31ED-0021	230	AC	1	CO-8A(4)	-	-	PTC	PTC
2	378118	REK33-1021	230	AC	3	NO-8A(4)	NO-8A(4)	NO-8A(4)	PTC	PTC
2	402020	REK33	12	AC/DC	3	NO-8A(4)	NO-8A(4)	NO-8A(4)	PTC	PTC

ELIWELL

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built-in version



fig.	Part No.	type	model	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
1	378203	EW7210	E7211E0XHD700	95-240	AC	1	CO-8A(3)	-	Pt100	-
1	378202	EW7210	E7211A0XHD700	95-240	AC	1	CO-8A(3)	-	TC (J,K)	-
1	378204	EW7220	E7212P0XBH700	95-240	AC	2	CO-8A(3)	NO-8A(3)	NTC/PTC/Pt100/Pt1000/TC(J,K)	-
2	379830	IC912LX	IC11I00XRN700	230	AC	1	CO-8A(3)	-	mV/mA	-
3	379605	IC912LX	IC11J10XHD300	12	AC/DC	1	CO-8A(3)	-	Pt100/TC (J,K)	-
3	379689	IC902	IC16D00TCD300	12	AC/DC	1	CO-15A(8)	-	NTC/PTC	-
3	379567	ICPlus902	ICP11J0550000	24	AC	1	CO-8A(3)	-	Pt100/TC (J,K)	-
4	379690	ICPlus902	ICP16D0750000	230	AC	1	CO-15A(8)	-	NTC/PTC	-
4	379568	IC912	IC12J10XHD700	230	AC	1	CO-8A(3)	-	Pt100/TC (J,K,S)	-

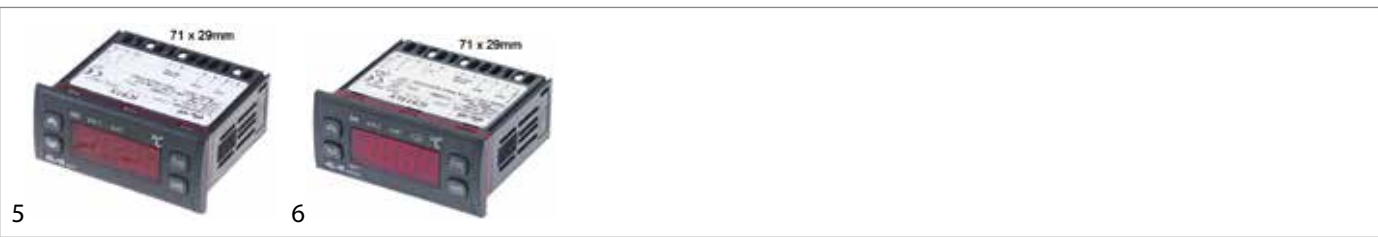


fig.	Part No.	type	model	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
5	379788	IC915	IC12J00THD400	12/24	AC/DC	2	CO-8A(3)	CO-8A(3)	Pt100/TC (J,K)	-
6	379790	ICPlus915	ICP22DI350000	12	AC/DC	2	CO-8A(3)	CO-8A(3)	NTC/PTC	NTC/PTC
6	379832	ICPlus915	ICP22DI750000	230	AC	2	CO-8A(3)	CO-8A(3)	NTC/PTC	NTC/PTC





## DIN rail



1

fig.	Part No.	type	model	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1
1	378207	DR4020	E4D12N00BH710	100-240	AC	2	CO-8A(3)	NO-8A(3)	Pt100/TC (J,K)

## refrigeration controllers

## built-in version



1

2

3

fig.	Part No.	model	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
1	378298	IDP17D0700000	230	AC	1	NO-12A(12)	-	-	-	NTC/PTC/Pt1000	-	-	-
1	379837	IDP17D0300000	12	AC/DC	1	NO-12A(12)	-	-	-	NTC/PTC/Pt1000	-	-	-
1	378380	ICP22I0750000	230	AC	2	CO-8A(3)	CO-8A(3)	-	-	mA	-	-	-
1	378304	IDP29DB700000	230	AC	2	NO-12A(12)	CO-8A(4)	-	-	NTC/PTC/Pt1000	NTC/PTC/Pt1000	DI	-
1	378437	IDP29DB300000	12	AC/DC	2	NO-12A(12)	CO-8A(4)	-	-	NTC/PTC/Pt1000	NTC/PTC/Pt1000	DI	-
1	378299	IDP2EDB700000	230	AC	3	NO-12A(12)	CO-8A(4)	NO-5A(2)	-	NTC/PTC/Pt1000	NTC/PTC/Pt1000	NTC/PTC/Pt1000	DI
1	379836	IDP2EDB300000	12	AC/DC	3	NO-12A(12)	CO-8A(4)	NO-5A(2)	-	NTC/PTC/Pt1000	NTC/PTC/Pt1000	NTC/PTC/Pt1000	DI
1	378436	IDP24DB700000	230	AC	4	NO-12A(12)	CO-8A(4)	NO-5A(2)	NO-5A(2)	NTC/PTC/Pt1000	NTC/PTC/Pt1000	DI	-
2	379572	ID12C00TCD300	12	AC/DC	2	NO-8A(3)	CO-8A(3)	-	-	NTC/PTC	-	-	-
2	379573	ID12C00TCD700	230	AC	2	NO-8A(3)	CO-8A(3)	-	-	NTC/PTC	-	-	-
2	379580	ID34DF0XCD300	12	AC/DC	4	CO-8A(3)	NO-8A(3)	NO-8A(3)	NO-5A(2)	NTC/PTC	NTC/PTC	DI	DI
2	378136	ID24DB0XCD300	12	AC/DC	4	NO-8A(3)	NO-8A(3)	NO-5A(2)	NO-5A(2)	NTC/PTC	NTC/PTC	-	-
3	378142	WC12DI0TQD700	230	AC	2	NO-20A(12)	NO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI	-
3	378141	WC23DI0TQD780	230	AC	3	NO-20A(12)	NO-8A(3)	NO-8A(3)	-	NTC/PTC	NTC/PTC	DI	-
3	379884	WC24DI0TCD790	230	AC	4	NO-20A(12)	CO-12A(8)	NO-8A(3)	NO-8A(3)	NTC	NTC	DI	-
3	378139	WC25DI0TCD790	230	AC	5	NO-12A(12)	CO-12A(8)	NO-8A(3)	NO-8A(3)	NTC/PTC	NTC/PTC	DI	-

built-in version 2-piece



fig.	Part No.	type	model	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	buzzer internal	interface RS485
1	379398	IS972LX	IS23DI0XCD000	-	-	-	-	-	-	-	DI	-	-	-	-	-
2	379533	EWEM233	DS340000DC700	3	NO-15A(12)	CO-10A(7)	NO-16A(8)	-	-	-	NTC/PTC	NTC/PTC	-	-	-	-

accessories



fig.	Part No.	description
1	379534	connection cable type EC0000110 connection RJ45 L 1000mm for ELIWELL/Universal plug type

DIN rail



fig.	Part No.	type	model	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4	HACCP	real time clock	buzzer internal	interface RS485
1	378205	EWDR981	DR26DI0TCD700	230	AC	1	CO-15A(12)	-	-	-	NTC/PTC	NTC/PTC	DI	DI	-	-	-	-
1	378378	EWDR983/CSLX	DR38CF0SCD700	230	AC	2	CO-15A(12)	CO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI	DI	-	-	-	X
1	378206	EWDR985	DR34DI0TCD700	230	AC	4	CO-15A(12)	CO-8A(3)	NO-8A(3)	NO-8A(3)	NTC/PTC	NTC/PTC	NTC/PTC	DI	-	-	-	-
1	378379	EWDR985/CSLX	DR35DR0SCD700	230	AC	4	CO-15A(12)	CO-8A(3)	NO-8A(3)	NO-8A(3)	NTC/PTC	NTC/PTC	NTC/PTC	DI	-	-	-	X

wall-mounted



fig.	Part No.	type	model	supply (V)	voltage	relay outputs	relay output 1	input 1	input 2
1	378217	WM961/A	WM1GDL00BHH00	230	AC	1	CO-15A(12)	NTC/PTC	DI



controllers for walk-in fridge



**technical data:**  
type EWRC 500 NT 2HP  
supply 230V  
voltage type AC

fig.	Part No.	model	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	input 5	HACCP	real time clock	interface RS485
1	378447	RTC HACCP 4D W/B	5	NO-12A(12)	NO-16A(8)	CO-8A(3)	NO-16A(8)	CO-8A(3)	NTC/PTC	NTC/PTC	NTC/PTC	DI	DI	X	X	X
2	378406	RCS3UDTX22700	5	NO-12A(12)	NO-8A(4)	NO-8A(4)	NO-8A(8)	NO-8A(4)	NTC/PTC	NTC/PTC	NTC/PTC	DI	DI	-	-	-
2	378316	RCS3UDLX20700	5	NO-12A(12)	NO-8A(8)	NO-8A(4)	NO-8A(4)	NO-8A(4)	NTC/PTC	NTC/PTC	NTC/PTC	DI	DI	-	-	-

data loggers



fig.	Part No.	type	model	supply (V)	voltage	channels	input 1/2	input 3/4	input 5/6	input 7/8	input 9/10	data logger	HACCP	real time clock	buzzer internal	interface Rs232	printer	alarm relay
1	378212 <sup>1</sup>	Memory1040L	M1K04X02N1X00	230	AC	4	NTC	NTC/DI	DI	-	-	X	X	X	X	-	X	X
2	378213 <sup>1</sup>	Memory1045	M1K04X02R0X00	230	AC	4	NTC	NTC/DI	DI	-	-	X	X	X	X	X	-	X
2	378240	Memory1085/2AI	M1K26X02R0X00	230	AC	8	4-20mA	NTC/DI	NTC/DI	NTC/DI	DI	X	X	X	X	X	-	X
3	378241	Memory1040	M1K04X02R1X00	230	AC	4	NTC	NTC/DI	DI	-	-	X	X	X	X	X	X	X
3	378242	Memory1080	M1K08X02R1X00	230	AC	8	NTC/DI	NTC/DI	NTC/DI	NTC/DI	DI	X	X	X	X	X	X	X
3	378243	Memory1085/2AI	M1K26X02R1X00	230	AC	8	4-20mA	NTC/DI	NTC/DI	NTC/DI	DI	X	X	X	X	X	X	X

<sup>1</sup>incl. 2x NTC probe



electronic thermometers



fig.	Part No.	type	volt. (V)	voltage	measuring range (°C)	probe type
1	379545	EM300	12	AC/DC	-55 up to +140	NTC/PTC
1	379531	EM300	230	AC	-50 up to +110	NTC
1	379504	EM300	230	AC	-50 up to +110	NTC/PTC
2	378198	EM300LX	12	AC/DC	-200 up to +800	Pt100/TC (J,K)

EUREMA

refrigeration controllers



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	input 3
1	378471	TE11E	230	AC	1	NO-16A	-	-	PTC	-	-
1	378486	TE32F	230	AC	3	NO-16A	CO-10A	NO-10A	PTC/NTC	PTC/NTC	DI
1	378281	TE32E	230	AC	3	NO-16A	NO-8A	NO-5A	PTC	PTC	-

thermometers



fig.	Part No.	type	volt. (V)	voltage	probe type	fig.	Part No.	type	volt. (V)	voltage	probe type
1	379778	TE01	230	AC	PTC	2	378472	TE01DEF	230	AC	PTC

accessories



fig.	Part No.	description
1	378487	adapter suitable for EUREMA internal size 58x25mm external size 71x30mm plastic black
2	378306	load module EUREMA type EWEM036 115x37mm 230V voltage AC relay outputs 3 CO-20A CO-16A CO-10A

**EVCO - EVERY CONTROL**

universal controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	buzzer internal
1	378134	EVK411	230	AC	1	CO-16A(8)	-	-	-	-	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA	-	X
1	378131	EVK411	12	AC/DC	1	CO-16A(8)	-	-	-	-	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA	-	X
1	378282	EVK411	230	AC	1	CO-16A(8)	-	-	-	-	-	TC (J,K)	-	X
1	378151	EVK412	12/24	AC/DC	2	CO-16A(8)	CO-8A(3)	-	-	-	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA	-	X
1	378152	EVK412	230	AC	2	CO-16A(8)	CO-8A(3)	-	-	-	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA	-	X
2	379017	EVK412	12	AC	2	CO-16A(8)	CO-8A(3)	-	-	-	-	TC (J,K)	-	X
3	378168	EC4-132-J220	230	AC	2	CO-8A(3)	CO-8A(3)	-	-	-	-	TC(J)	-	-
4	378177	EK340AJ7	230	AC	3	NO-8A(3)	NO-8A(3)	NO-8A(3)	-	-	-	TC (J,K)	-	X



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	buzzer internal
5	379922	EK342AJ7	230	AC	3	NO-8A(3)	NO-8A(3)	NO-8A(3)	-	-	-	TC (J,K)	-	X
6	378178	EK354AJ7	230	AC	6	NO-8A(3)	NO-8A(3)	NO-8A(3)	NO-10A(5)	NO-8A(3)	NO-8A(3)	TC (J,K)	TC (J,K)	X
7	378179	EK356AJ7	230	AC	6	NO-8A(3)	NO-8A(3)	NO-8A(3)	NO-10A(5)	NO-8A(3)	NO-8A(3)	TC (J,K)	TC (J,K)	X



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	buzzer internal
8	378169	EV7401	24/230	AC	1	CO-8A(3)	-	-	-	-	-	NTC/PTC/Pt100/TC(J,K)/mA	-	X
8	378170	EV7402	24/230	AC	2	CO-8A(3)	CO-8A(3)	-	-	-	-	NTC/PTC/Pt100/TC(J,K)/mA	-	X
9	378173	EV9411C6	24/230	AC	1	CO-8A(3)	-	-	-	-	-	Pt100	-	X
9	378172	EV9411J6	24/230	AC	1	CO-8A(3)	-	-	-	-	-	TC (J,K)	-	X
9	378175	EV9412C6	24/230	AC	2	CO-8A(3)	CO-8A(3)	-	-	-	-	Pt100	-	X
9	378174	EV9412J6	24/230	AC	2	CO-8A(3)	CO-8A(3)	-	-	-	-	TC (J,K)	-	X
10	378171	EV7611	24/230	AC	1	CO-8A(3)	-	-	-	-	-	TC(J)	-	X

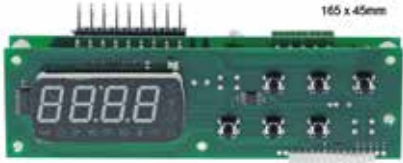
refrigeration controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
1	379647	EVKB21N7VCXS	230	AC	1	CO-16A(5)	-	-	-	NTC	DI	-	-
1	378126	EVK201N7	230	AC	1	CO-16A(5)	-	-	-	NTC/PTC	-	-	-
1	378147	EVK211N3VXBS	12/24	AC/DC	1	CO-16A(5)	-	-	-	PTC/NTC	-	-	-
1	378148	EVK211N7VXBS	230	AC	1	CO-16A(5)	-	-	-	PTC/NTC	-	-	-
1	379648	EVKB31N7VCXS	230	AC	1	NO-30A(12)	-	-	-	NTC	DI	-	-
1	378149	EVK212N3VXBS	12/24	AC/DC	2	NO-16A(5)	CO-8A(4)	-	-	NTC/PTC	NTC/PTC	DI	-
1	378150	EVK202N7VXBS	230	AC	2	NO-16A(5)	CO-8A(4)	-	-	NTC/PTC	NTC/PTC	-	-
1	378113	EVK213N2	12/24	AC/DC	3	NO-16A(5)	CO-8A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC	DI	-
1	378153	EVK213N3VXBS	12/24	AC/DC	3	NO-16A(5)	CO-8A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC	DI	-
1	378154	EVK203N7VXBS	230	AC	3	NO-16A(5)	CO-8A(4)	NO-8A(4)	-	NTC/PTC	NTC/PTC	DI	-
1	379649	EVKB33N7VXXS	230	AC	3	NO-30A(12)	CO-8A(4)	NO-8A(4)	-	NTC	NTC	DI	-
1	378308	EVKB23N7	230	AC	3	NO-8A(4)	CO-8A(4)	NO-5A(4)	-	NTC	NTC	DI	-
2	378443	EV3X21N7 Touch	230	AC	1	NO-16A(5)	-	-	-	NTC	DI	-	-
2	378444	EV3B31N7 Touch	230	AC	1	NO-30A(12)	-	-	-	NTC	DI	-	-
2	378445	EV3B33N7 Touch	230	AC	3	NO-30A(12)	CO-8A(4)	NO-5A(2)	-	NTC	NTC	DI	-
3	378360	EVR232N7	230	AC	2	NO-30A(12)	CO-8A(4)	-	-	NTC/PTC	NTC/PTC	DI	-
3	378357	EVR204N7	230	AC	4	NO-16A(5)	CO-8A(4)	NO-8A(4)	NO-8A(4)	NTC/PTC	NTC/PTC	DI	-







165 x 45mm

4

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
4	379820	EVC20S35N7ALX30	230	AC	3	NO-16A(5)	NO-8A(4)	CO-8A(4)	-	NTC	NTC	DI	-
4	379850	EVC20S35N7ALX40	230	AC	4	NO-16A(5)	NO-8A(4)	CO-8A(4)	NO-8A(4)	NTC	NTC	DI	DI

DIN rail




90 x 53mm


1

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	input 3	buzzer internal
1	378158	EV6421	230	AC	1	CO-16A(8)	-	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA	-	-	X
1	378159	EV6412	230	AC	2	CO-16A(8)	CO-8A(3)	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA	-	-	X
1	378157	EV6221P7VXBS	230	AC	1	CO-16A(5)	-	-	NTC/PTC	DI	DI	X
1	378160	EV6223P7VXBS	230	AC	3	NO-16A(5)	CO-8A(4)	CO-8A(4)	NTC/PTC	NTC/PTC	DI	X


for blast chiller



66,5 x 138mm



71 x 25mm



119,5 x 81mm

1

2

3

**technical data:**  
version with additional input for core temperature probe

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
1	378180	EK825AP7	230	AC	4	NO-16A(5)	CO-8A(4)	NO-8A(4)	NO-8A(4)	PTC	PTC	DI	DI
1	379923	EK820AP7	230	AC	4	NO-16A(5)	CO-8A(4)	NO-8A(4)	NO-8A(4)	PTC	PTC	DI	DI
2	378484	EVK802P7	230	AC	2	NO-8A(4)	CO-8A(4)	-	-	NTC/PTC	DI	-	-
3	403193	EVC80S10	230	AC	2	NO-12A(5)	NO-12A(5)	-	-	PTC	PTC	DI	DI





controllers for walk-in fridge



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	input 4	interface RS485
1	378354 <sup>1</sup>	EVB1206N9	230	AC	6	NO-16A(5)	NO-30A(12)	NO-16A(5)	CO-8A(4)	NO-30A(12)	NO-8A(4)	NTC/PTC/Pt1000	NTC/PTC/Pt1000	DI	DI	X
2	379842	ASQX214000	230	AC	4	CO-8A(4)	NO-8A(4)	NO-8A(4)	NO-30A(12)	-	-	NTC/PTC	NTC/PTC	DI	DI	-

<sup>1</sup>no residual-current device (RCD)

data loggers



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	HACCP	real time clock	buzzer internal	interface RS485
1	378446 <sup>1,2</sup>	EVB1216N9XLC	230	AC	6	NO-16A(5)	NO-30A(12)	CO-8A(4)	NTC/PTC/Pt1000	NTC/PTC/Pt1000	X	X	X	X
2	379455	PR 100A X9S001	110-240	AC	-	-	-	-	PTC/NTC/TC(J,K)/Pt100,4-20mA	DI	X	-	-	X

<sup>1</sup>data logger, incl. 2x NTC probes <sup>2</sup>datalogger incl. control function



## electronic thermometers

### built-in version



fig.	Part No.	type	volt. (V)	voltage	sensor
1	378247	EVK100M7	230	AC	NTC/PTC/Pt100/Pt1000/TC(J,K)
1	378346	EVK100P3	12/24	AC/DC	PTC
2	378345	TM103AN2	12	AC/DC	NTC
2	379900	TM103T N4	24	AC	NTC

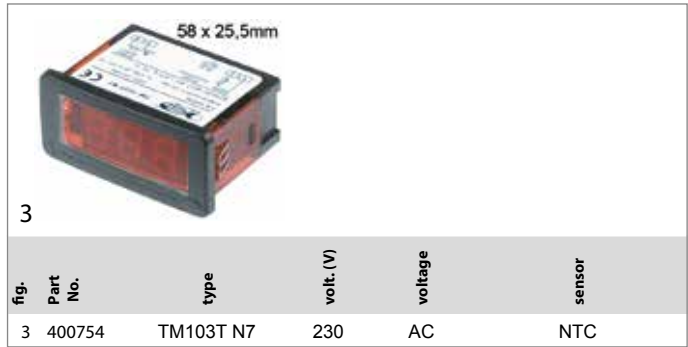


fig.	Part No.	type	volt. (V)	voltage	sensor
3	400754	TM103T N7	230	AC	NTC

## HONEYWELL

### universal controllers

#### built-in version



pos.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	input 1	measuring range (°C)
1	379876	DC10N-300	24/230	AC	1	CO-10A(6)	TC (J)	0 up to +300
2	379877	DC10N-400	24/230	AC	1	CO-10A(6)	TC (J)	0 up to +400
3	379878	DC10N-500	24/230	AC	1	CO-10A(6)	TC (J)	0 up to +500

KIOUR

universal controllers

built-in version 2-piece

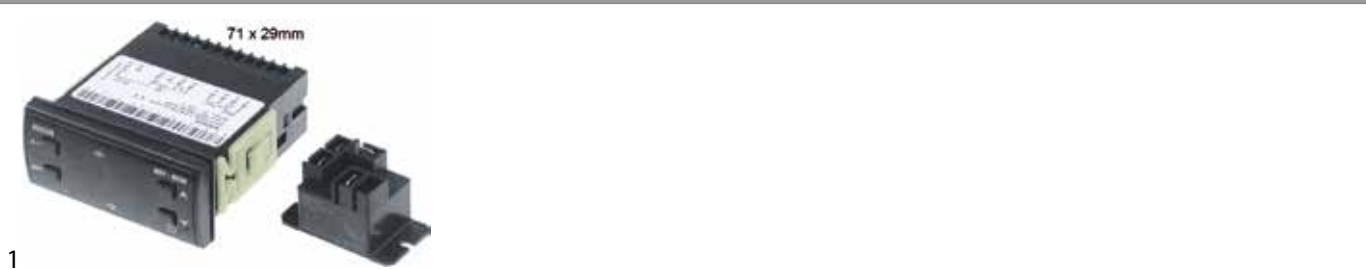


fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
1	379754	REF-BERI-ExR	230	AC	2	NO-12A	NO-30A	PTC	DI

refrigeration controllers

built-in version

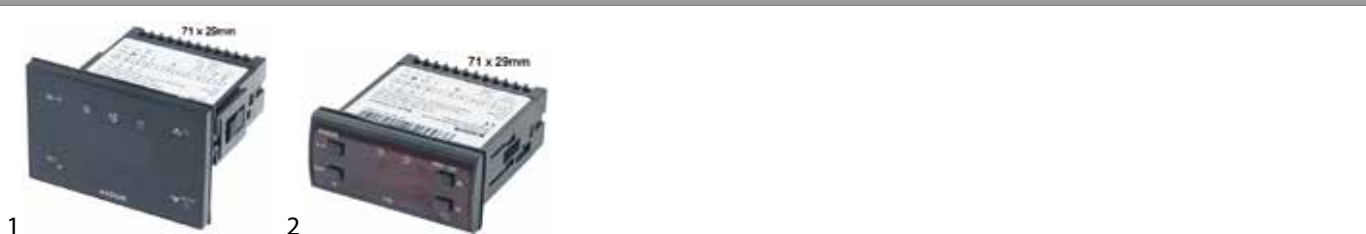


fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
1	389000	RSD-TOUCH	230	AC	3	NO-25A	NO-10A	NO-10A	-	PTC	DI	level sensor	-
2	379494	REF-DF-SM V4.2	230	AC	3	NO-25A	NO-5A	NO-5A	-	NTC	level sensor	-	-
2	379847 <sup>1</sup>	REF-DF-SM V4.2	230	AC	3	NO-25A	NO-5A	NO-5A	-	PTC	level sensor	-	-
2	379493	REF-FR-SM V2.0	12	AC/DC	5	NO-25A	NO-5A	NO-5A	NO-5A	PTC	PTC	DI	level sensor

<sup>1</sup>incl. 1x PTC probe

built-in version 2-piece



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
1	379809	REF-FR-SB V2.0	230	AC	5	NO-25A	NO-10A	NO-10A	NO-10A	PTC	PTC	DI	level sensor
2	379492	REF-FR-SP	-	-	-	-	-	-	-	-	-	-	-
3	389001	REF-FR-SP-TOUCH	-	-	-	-	-	-	-	-	-	-	-
3	389002	RSDFL TOUCH	-	-	-	-	-	-	-	-	-	-	-
3	389003	RSPFL TOUCH	-	-	-	-	-	-	-	-	-	-	-

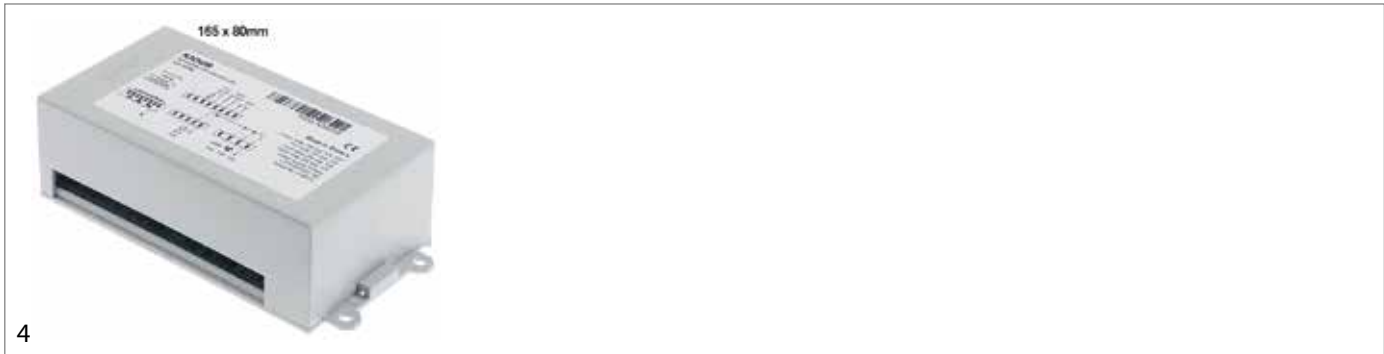


fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3	input 4
4	389004	RSDBL	230	AC	4	NO-25A	NO-10A	NO-10A	NO-10A	PTC	DI	level sensor	-
4	379495	REF-FR-SB V3.0	230	AC	5	NO-30A	NO-10A	NO-10A	NO-10A	PTC	PTC	DI	level sensor
4	389005	RSPBL	230	AC	6	NO-30A	NO-10A	NO-10A	NO-10A	PTC	PTC	DI	level sensor

accessories

1

fig.	Part No.	description
1	400339	ribbon cable plug type 2 row 16-pole L 460mm

## LAE

### universal controllers

#### built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	interface RS485
1	379767	MTR6T1RD	12	AC/DC	1	NO-8A(3)	-	PTC	-
2	378340	AC1-5PS1RD	12	AC/DC	1	CO-12A(4)	-	Pt100	-
2	379768	AC1-5TS2RW-B	115-230	AC	2	CO-12A(4)	NO-7A(2)	PTC/NTC	X
3	379765	LTR-5TSRE	230	AC	1	CO-12A(4)	-	PTC	-

DIN rail



1

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	interface RS485
1	379766	AC1-27TS2RE-B	230	AC	2	CO-16A(4)	CO-16A(4)	PTC/NTC	X

refrigeration controllers

built-in version



1



2



3



4

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	input 5	interface RS485
1	378419	AT1-5AS1E-G	230	AC	1	NO-16A(4)	-	-	-	-	NTC/PTC	-	-	-	-	-
1	379762	AT1-5AS5E-G	230	AC	1	NO-16A(8)	-	-	-	-	NTC/PTC	-	-	-	-	-
1	378420	AT1-5AS2E-G	230	AC	2	NO-16A(4)	NO-7A(2)	-	-	-	NTC/PTC	-	-	-	-	-
1	378290	AT1-5BS6E-BG	230	AC	2	NO-16A(8)	NO-7A(2)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-	X
1	379852	AT1-5AS4D-G	230	AC	2	NO-16A(5)	NO-4A(1)	-	-	-	NTC/PTC	-	-	-	-	-
1	379763	AT1-5BS4E-BG	230	AC	2	NO-16A(5)	NO-7A(2)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-	X
1	379764	AT2-5BS4E-AG	230	AC	3	NO-16A(5)	NO-7A(2)	NO-7A(2)	-	-	NTC/PTC	NTC/PTC	DI	-	-	-
1	379760	AR2-5C24W-BG	115-230	AC	4	NO-12A(5)	NO-7A(2)	NO-7A(2)	NO-7A(2)	-	NTC/PTC	NTC/PTC	NTC/PTC	DI	DI	X
2	381316	AC1-5TS2RD-A	12	DC	2	CO-10A(5)	NO-1A	-	-	-	NTC/PTC	-	-	-	-	-
3	378489	AT1-5BS6E-1FS	230	AC	2	NO-16A(8)	NO-7A(2)	-	-	-	NTC/PTC	NTC/PTC	DI	-	-	X
4	378184	LCD32Q4E-C	230	AC	4	NO-20A(6)	NO-12A(4)	NO-8A(3)	CO-8A(3)	-	NTC	NTC	DI	DI	-	X
4	379772	AD-32S35W-B	230	AC	5	CO-16A(5)	NO-16A(4)	NO-7A(2)	NO-7A(2)	NO-7A(2)	NTC	NTC	DI	DI	-	X



## built-in version 2-piece



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	interface RS485
1	379771	LCD5-S	-	-	-	-	-	-	-	-	-	-	-	-	-
2	378253	BD1-28C1S5W-B	230	AC	5	NO-16A(12)	NO-16A(4)	NO-16A(4)	NO-7A(2)	NO-7A(2)	-	NTC	NTC	DI	X
2	403458	BIT25B1S3E-A	230	AC	3	NO-20A(8)	NO-16A(4)	NO-7A(2)	-	-	-	NTC	NTC	DI	X
2	379803	BR1-28C1S5W-B	230	AC	5	NO-16A(12)	NO-16A(4)	NO-16A(4)	NO-7A(2)	NO-7A(2)	-	NTC	NTC	DI	X
3	403459	FC06-20M01													



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	interface RS485
4	379483	SMD34RU	-	-	-	-	-	-	-	-	-	-	-	-	-
5	379484	SSD90B35E-C	230	AC	6	NO-20A(6)	CO-12A(4)	NO-8A(3)	NO-8A(3)	CO-8A(3)	NO-7A(2)	PTC	PTC	DI	X
6	403465	FC10-20M01													



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	relay output 6	input 1	input 2	input 3	interface RS485
7	379497	BIT12RU20	-	-	-	-	-	-	-	-	-	-	-	-	-
8	379496	BIT20B11E	230	AC	1	NO-10A(6)	-	-	-	-	-	NTC	-	-	-

DIN rail



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	relay output 5	input 1	input 2	input 3	input 4	interface RS485
1	379761	AR2-27C15E-BG	230	AC	5	NO-15A(5)	NO-7A(2)	NO-7A(2)	CO-7A(2)	NO-7A(2)	NTC/PTC	NTC/PTC	DI	DI	X





## wall-mounted



fig.	Part No.	type	supply (V)	voltage	relay output 1	relay output 2	input 1	interface RS485
1	379769	LDU2W2E-EG	230	AC	NO-16A(4)	CO-8A(3)	NTC	X
2	379443	AC1-2WTQ2RE-B	230	AC	CO-12A(4)	NO-7A(2)	PTC/NTC	X

## electronic thermometers

## built-in version



fig.	Part No.	type	supply (V)	voltage	inputs	RoomTempIN	fig.	Part No.	type	supply (V)	voltage	inputs	RoomTempIN
1	379775	LTS12PTI-2	24	AC/DC	1	PTC/Pt100	2	379520	LT12CJE	230	AC	1	TC(J)

## PIXSYS

## universal controllers

## built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1
1	379888	ATR111-B	230	AC	2	CO-8A(3)	8VDC/20mA	-	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA
1	381309	ATR121-B	230	AC	3	CO-8A(3)	NO-5A(3)	8VDC/20mA	NTC/PTC/Pt100/Pt1000/TC(J,K)/mV/mA



SHANGFANG

refrigeration controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	alarm	defr. function
1	402150 <sup>1</sup>	SF-101S-2	12	AC	1	12VDC	-	-	NTC	-	X	X
1	403544 <sup>1</sup>	SF-101S	12	AC	1	12VDC	-	-	NTC	-	-	X
2	379799 <sup>1</sup>	SF-104S-2	12	AC	2	12VDC	12VDC	-	NTC	NTC	-	X
2	403545 <sup>1</sup>	SF-104S	12	AC	3	12VDC	12VDC	12VDC	NTC	NTC	-	X

<sup>1</sup>without relay, cable harness, probe and transformer

built-in version 2-piece



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	alarm	defr. function
1	379849 <sup>1</sup>	SF-101S	230	AC	1	NO-30A	-	-	NTC	-	-	X
1	403073 <sup>1</sup>	SF-101S-2	230	AC	1	NO-30A	-	-	NTC	-	X	X
2	403074 <sup>1</sup>	SF-104S-2	230	AC	2	NO-30A	NO-30A	-	NTC	NTC	-	X
3	402148 <sup>1</sup>	SF-104S	230	AC	3	NO-30A	NO-30A	NO-30A	NTC	NTC	-	X

<sup>1</sup>incl. relay, cable harness, probe and transformer

accessories



fig.	Part No.	description
1	380867	relay SHANGFANG 12VDC 30 A 1NO connection male faston 6.3mm screw mounting
2	379054	transformer primary 230VAC secondary 12VAC 3 VA secondary 0,25 A H 40 mm L 45 mm W 50 mm
3	381348	temperature probe NTC cable silicone cable colours black cable length 2 m
3	381319	temperature probe NTC cable silicone cable colours black cable length 3 m evaporator
4	381347	temperature probe NTC cable silicone cable colours white cable length 2 m
4	381318	temperature probe NTC cable silicone cable colours white cable length 3 m



## STÖRK-TRONIC

## universal controllers

## built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3
1	378161	ST710-JB1JA.10	230	AC	1	CO-12A(2.2)	-	-	-	Pt100	DI	-
1	378162	ST710-JB1JA.10	230	AC	1	CO-12A(2.2)	-	-	-	PTC	DI	-
2	378109	ST58-GB1TA.10	230	AC	1	CO-12A(2.2)	-	-	-	PTC/Pt100	-	-
3	379702	ST70-31.10	12/24	AC	1	CO-7A(2.2)	-	-	-	TC (J,K)	-	-
4	379304	ST64-31.10	230	AC	1	NO-12A(6)	-	-	-	Pt100	-	-
4	379305	ST64-31.10	230	AC	1	NO-12A(6)	-	-	-	PTC	-	-



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3
5	379515	ST73-31.10	230	AC	1	NO-12A(6)	-	-	-	PTC	-	-
5	379339	ST73-31.10	230	AC	1	NO-12A(6)	-	-	-	Pt100	-	-
6	378164	ST501-JA1TA.10	230	AC	1	NO-12A(6)	-	-	-	PTC/Pt100	-	-
7	378163	ST121-JA1TA.10	230	AC	1	NO-16A(6)	-	-	-	PTC/Pt100	-	-
8	379601	ST501-QE1TA.09	230	AC	2	CO-10A(1.5)	CO-8A(1.5)	-	-	PTC/Pt100/Pt1000	DI	-



refrigeration controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	input 3
1	378109	ST58-GB1TA.10	230	AC	1	CO-12A(2.2)	-	-	PTC/Pt100	-	-
2	379304	ST64-31.10	230	AC	1	NO-12A(6)	-	-	Pt100	-	-
2	379305	ST64-31.10	230	AC	1	NO-12A(6)	-	-	PTC	-	-
3	379339	ST73-31.10	230	AC	1	NO-12A(6)	-	-	Pt100	-	-
3	379515	ST73-31.10	230	AC	1	NO-12A(6)	-	-	PTC	-	-
4	378161	ST710-JB1JA.10	230	AC	1	CO-12A(2.2)	-	-	Pt100	DI	-
4	378162	ST710-JB1JA.10	230	AC	1	CO-12A(2.2)	-	-	PTC	DI	-
4	379626	ST710-KSKA.12	230	AC	2	NO-12A(2.2)	NO-5A(1.5)	-	PTC	PTC	-



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	input 3
5	379703	ST70-36.11	12/24	AC/DC	1	NO-7A(1)	-	-	PTC	-	-
5	379704	ST70-36.13	12/24	AC/DC	3	NO-5A(1.5)	NO-5A(1.5)	NO-5A(1.5)	PTC	PTC	DI
6	378163	ST121-JA1TA.10	230	AC	1	NO-16A(6)	-	-	PTC/Pt100	-	-
7	378164	ST501-JA1TA.10	230	AC	1	NO-12A(6)	-	-	PTC/Pt100	-	-

TECNOLOGIC

universal controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
1	378459	TLZ11HS----P	100-240	AC	1	CO-16A(6)	-	NTC/PTC/Pt1000	DI
1	378119	TLZ20HS-----	100-240	AC	1	CO-16A(8)	-	NTC/PTC	-
1	379486	TLK38FCR----	12	AC/DC	1	CO-16A(8)	-	NTC/PTC	-
1	379993	TLZ11FS----	12	AC/DC	1	CO-16A(8)	-	NTC/PTC/Pt1000	DI

Table continues overleaf





fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
1	379796	TLZ11FR--21	12	AC/DC	1	CO-8A(3)	-	NTC/PTC	DI
1	381310	TLK38HER--	100-240	AC	1	CO-8A(3)	-	NTC/PTC/TC (J,K,S)/mV	-
1	381311	TLK38HCR--	100-240	AC	1	CO-8A(3)	-	Pt100/TC (J,K,S)/mV	-
1	379223	TLK38FERR--	12	AC/DC	2	CO-8A(3)	CO-8A(3)	NTC/PTC/TC(J,K)	-
1	379224	TLK38FCRR--	12	AC/DC	2	CO-8A(3)	CO-8A(3)	Pt100/TC (J,K)	-
2	379265	TLZ12HS-----	100-240	AC	1	CO-16A(8)	-	NTC/PTC	-
2	379266	TLZ12FS-----	12	AC/DC	1	CO-16A(8)	-	NTC/PTC	-
2	379207	TLZ11HS-----	100-240	AC	1	CO-16A(8)	-	NTC/PTC	DI
2	379267	TLK38FER--	12	AC/DC	1	CO-8A(3)	-	NTC/PTC/TC(J,K)	-
3	379256	TCPDEM8UJR31FO	24-240	AC	1	CO-8A(3)	-	TC (J)	-
3	379989	TCPDEM2UJR31FO-	24-240	AC	1	CO-8A(3)	-	TC(J)	-
3	379990	TCPDEM3UJR31FO-	24-240	AC	1	CO-8A(3)	-	TC(J)	-
4	379285	TLK49 HCR	100-240	AC	1	NO-8A(3)	-	Pt100/TC (J,K)	-




fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1	input 2
5	379988	TLK48 HCR-----	100-240	AC	1	NO-8A(3)	-	Pt100/TC (J,K)	-
6	379246	TLK96HCRR--S	100-240	AC	2	CO-8A(3)	CO-8A(3)	Pt100/TC (J,K)	-
7	379228	TLK72HCRR---B	100-240	AC	2	CO-8A(3)	CO-8A(3)	Pt100/Tc(J,K,S,R,T)/mV	-
7	379227	TLK72HERR-----B	100-240	AC	2	CO-8A(3)	NO-8A(3)	PTC/NTC/TC(J,K,S)/mV	-

DIN rail



pos.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	input 1
1	379291	TLK35HERR-----B	100-240	AC	2	CO-8A(3)	CO-8A(3)	NTC/PTC/TC(J,K)
2	379290	TLK35HCRR-----B	100-240	AC	2	CO-8A(3)	CO-8A(3)	Pt100/TC (J,K)

refrigeration controllers

built-in version



fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3
1	379264	E51-DNS	230	AC	1	CO-16A(6)	-	-	-	NTC	-	-
2	378459	TLZ11HS----P	100-240	AC	1	CO-16A(6)	-	-	-	NTC/PTC/Pt1000	DI	-
2	378119	TLZ20HS----	100-240	AC	1	CO-16A(8)	-	-	-	NTC/PTC	-	-
2	379993	TLZ11FS----	12	AC/DC	1	CO-16A(8)	-	-	-	NTC/PTC/Pt1000	DI	-
2	379796	TLZ11FR--21	12	AC/DC	1	CO-8A(3)	-	-	-	NTC/PTC	DI	-
2	379363	TLY28H	100-240	AC	2	NO-16A(6)	CO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI
2	379329	TLY29H	100-240	AC	3	NO-16A(6)	CO-8A(3)	CO-5A(2)	-	NTC/PTC	NTC/PTC	DI
2	379991	TLY26---R	12	AC/DC	4	NO-16A(6)	CO-8A(3)	CO-8A(3)	CO-8A(3)	NTC/PTC	NTC/PTC	DI
3	378438	TLE20DHK	230	AC	1	NO-20A(12)	-	-	-	NTC/PTC	-	-
3	378232	TLE20	230	AC	1	CO-16A(6)	-	-	-	NTC/PTC	-	-
3	379207	TLZ11HS-----	100-240	AC	1	CO-16A(8)	-	-	-	NTC/PTC	DI	-
3	379265	TLZ12HS-----	100-240	AC	1	CO-16A(8)	-	-	-	NTC/PTC	-	-
3	379266	TLZ12FS-----	12	AC/DC	1	CO-16A(8)	-	-	-	NTC/PTC	-	-
3	379209	TLY28F	12	AC/DC	2	NO-16A(6)	CO-8A(3)	-	-	NTC/PTC	NTC/PTC	DI
3	379210	TLY29F	12	AC/DC	3	NO-16A(6)	CO-8A(3)	CO-5A(2)	-	NTC/PTC	NTC/PTC	DI
3	378439	TLY25H	100-240	AC/DC	4	NO-16A(6)	NO-5A(2)	NO-5A(2)	NO-5A(2)	NTC/PTC	NTC/PTC	DI
4	378458 <sup>1</sup>	Y39S-HRRRB--A-E----	100-240	AC	3	NO-16A(9)	CO-8A(3)	NO-5A(2)	-	NTC/PTC	NTC/PTC	DI

<sup>1</sup>application by touchscreen





5

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3
5	378440	TLW24	100-240	AC	1	NO-16A(15)	-	-	-	NTC/PTC	DI	DI
5	378441	TLW24RRS	100-240	AC	4	NO-16A(15)	CO-8A(3)	NO-8A(3)	NO-16A(6)	NTC/PTC	NTC/PTC	DI

## DIN rail



1

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	relay output 4	input 1	input 2	input 3
1	379501	TLY35HSR	100-240	AC	4	CO-16A(6)	CO-8A(3)	CO-8A(3)	NO-8A(3)	NTC/PTC	NTC/PTC	DI

## wall-mounted



1

fig.	Part No.	type	supply (V)	voltage	relay outputs	relay output 1	relay output 2	relay output 3	input 1	input 2	input 3
1	378233	W09 HRB	100-240	AC	1	CO-8A(3)	-	-	NTC/PTC	-	-
1	378234	W09YHRRRB	100-240	AC	3	NO-14A(6)	CO-8A(3)	NO-4A(2)	NTC/PTC	NTC/PTC	DI



electronic thermometers

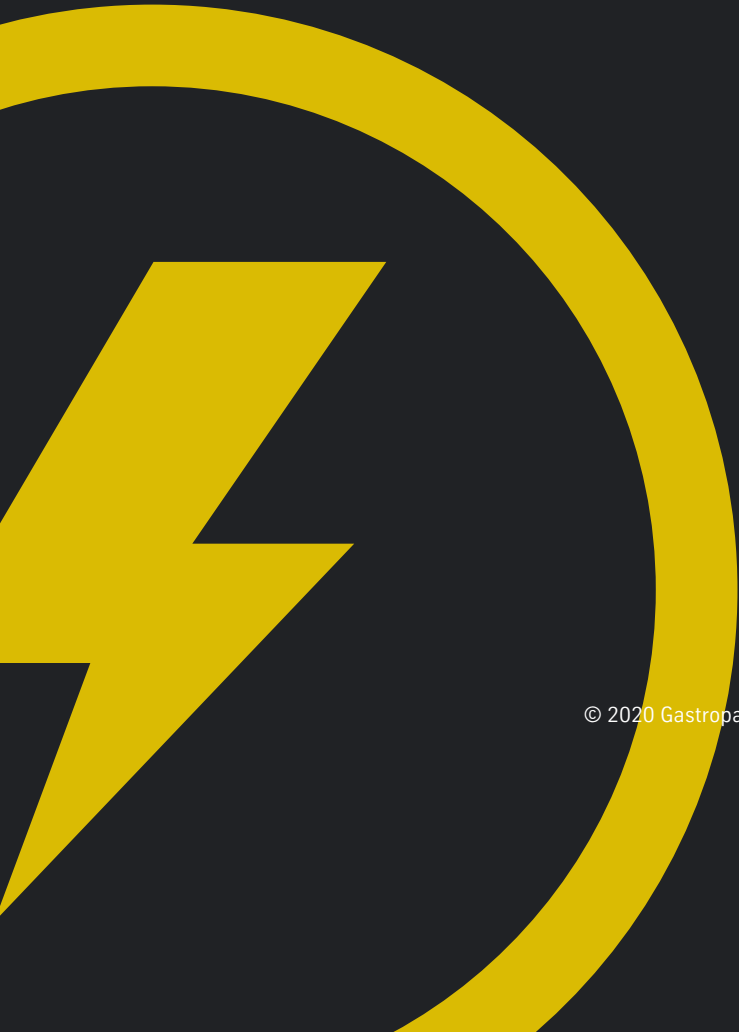
built-in version



1

fig.	Part No.	type	supply (V)	voltage	inputs	RoomTempIN	buzzer internal
1	379203	K38VFC-----E----	12	AC/DC	1	Pt100/TC (J,K)	-
1	379581	K38VHC-----E----	100-240	AC	1	Pt100/TC (J,K)	-
1	379201	TLV10H	12	AC/DC	1	NTC/PTC	-
1	379631	TLV38FE	12	AC/DC	1	NTC/PTC/TC(J,K)	-
1	378409	Z31VF-----D----	12	AC/DC	1	NTC/PTC	-

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