

TH-S

- MICROPROCESSOR BASED POWER THYRISTOR
- FOR HEATING APPLICATIONS WITH RESISTANCES OR INFRARED



FEATURES

PRODUCT DESCRIPTION

TH-S

TH-S is a static switch SCR microprocessor controlled and sized with the highest standards of safety. The continuous monitoring of the load, the power fuses integrated and the ability to connect to Fieldbus, allow its use as a standalone unit or with normal process controllers, PLC or any digital system. Owing to simple mounting, quick commissioning and safe operating, TH-S can be integrated easily into the wide field of applications in today's process technology, e.g.:

- Automotive industry (e.g. paint drying equipment);
- Chemical industry (pipe trace heaters, pre-heating equipment);
- Furnace construction (industrial, diffusion, drying);
- Glass processing (drying coatings);
- Machine building industry (extruders, plastic presses);
- Printing machines (IR drying);
- Packaging industry (shrink tunnels).

GENERAL

Rated voltage	230 (1S), 400, 500 VAC (-57... +10%)
Rated current	16, 30, 45, 60, 100, 130, 170, 280, 350 A
Control input	Relay, voltage (DC)
Protection	Ultra-rapid fuse, integrated contact protection
Diagnostic and level	LED
Interface	USB
Type of load	Resistive or infrared, with transformer
Power circuit connection	Single-phase (1S), three-phase two-phase controlled (2S), three-phase with 3 controlled phases (3S)
Operating temperature	Natural cooling: -10 ... + 45 ° C; Forced cooling: -10 ... + 35 ° C
Serial communication (optional)	Modbus RTU, PROFIBUS DPV1, Ethernet, CANopen, DeviceNet
Dimensions	(W x H x D): from 45 x 136 x 129 a 375 x 430 x 261 mm depending on the power
Compliance	CE, UL

HOW TO ORDER

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

TH- VERSION	CODE
Single-phase	1S
Dual-phase	2S
Tri-phase	3S
RATED VOLTAGE	
230 V	230
400 V	400
500 V	500
RATED CURRENT	
16 A	16
30 A	30
45 A	45
60 A	60
100 A	100
130 A	130
170 A	170
280 A	280
350 A	350
TYPE	
Standard functions + semiconductor fuse	H3
Standard functions + semiconductor fuse +relay alarm + load monitoring +analog ouput + power measurement	HRLP3
Standard functions + semiconductor fuse + forced ventilation	HF3
Standard functions + semiconductor fuse + forced ventilation + relay alarm + monitoring load + analog output + power measurement	HFRP3

Note: NOT all combinations are possible.

For more details please contact our sales department.

TECHNICAL DATA TH-1S

H3/ HRLP3	CURR (A)	POWER (kW)			DISS. (W)	DIMENSIONS (MM)			WEIGHT (KG)
		230 V	400 V	500 V		L	H	D	
	16	3.7	6.4	8	30	45	136	129	0.7
	30	6.9	12	15	47	45	136	129	0.7
	45	10	18	22.5	52	52	203	184	1.7
	60	14	24	30	80	52	203	184	1.7
	100	23	40	50	105	75	203	193	1.9
	130	30	52	65	150	125	320	241	4
	170	39	68	85	210	125	320	241	4
..F..	280	64	112	140	330	125	370	241	5
..F..	350	80	140	175	390	125	400	261	8.4

TECHNICAL DATA TH-2S

H3/ HRLP3	CURR (A)	DISS. (W)			DIMENSIONS (MM)			WEIGHT (KG)
		400 V	500 V		L	H	D	
	16	11	14	60	89	136	129	1.4
	30	21	26	94	89	136	129	1.4
	45	31	39	96	104	203	184	3.4
	60	42	52	160	104	203	184	3.4
	100	69	87	210	150	203	193	3.8
	130	90	112	300	250	320	241	8
	170	118	147	420	250	320	241	8
..F..	280	194	242	660	250	393	241	11
..F..	350	242	303	780	250	430	261	16.7

TECHNICAL DATA TH-3S

H3/ HRLP3	CURR (A)	DISS. (W)			DIMENSIONS (MM)			WEIGHT (KG)
		400 V	500 V		L	H	D	
	16	11	14	90	135	136	129	2.1
	30	21	26	141	135	136	129	2.1
	45	31	39	144	156	203	184	5.1
	60	42	52	240	156	203	184	5.1
	100	69	87	315	225	203	190	5.7
	130	90	112	450	375	320	241	12
	170	118	147	630	375	320	241	12
..F..	280	194	242	990	375	393	241	15
..F..	350	242	303	1170	375	430	261	25.5