

THYRO-S

DIGITAL THYRISTOR SWITCH

8 TO 350 AMPS



The high-effiency, connection-ready Thyro-S° thyristor switch delivers accurate, reliable, switch-free performance. It can be connected to bus systems, used as a standalone unit, or used in combination with all established two-point process controllers, PLCs, or computer systems. With simple mounting, minimal space requirements, quick commissioning, and safe operation, Thyro-S thyristor switches are easily integrated into a wide range of applications.

PRODUCT HIGHLIGHTS

- For ohmic or transformer loads
- Current, voltage, or power switching
- 230, 400, or 500 V
- 8 to 350 A
- Integrated semiconductor fuse
- Secure isolation between control and power sections
- 1-, 2- and 3-phase versions of Thyro-S units
- DIN rail mounting for 8, 16, 30 A
- LED status and level indication
- USB interface

TYPICAL APPLICATIONS

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

THYRO-S

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Models									
1S	1-phase version for 1-phase load between 2-phases or for 1-phase connected to the neutral phase								
2S	2-phase version for 3-phase load in cost saving 3-phase circuit								
3S	3-phase version for 3-phase load								
Rated Voltage H 3									
230 V -57% +10%	H 3 types								
230 V -15% +10%	H RLP3 types > 99 V using an external 24 V electronic power supply								
400 V -57% +10%	H 3 types								
400 V -15% +10%	H RLP3 types > 172 V using an external 24 V electronic power supply								
500 V -57% +10%	H 3 types								
500 V -15% +10%	H RLP3 types > 215 V using an external 24 V electronic power supply								
Operating Specifications									
Network Frequency	All types from 47 to 63 Hz								
	Max frequency change 5% per half-wave								
Load Types	Ohmic loads and transformer loads								
Relay Output	1 changeover contact								
Rated Current									
xxx	8, 16, 30, 45, 60, 100, 130, 170, 280, 350 A								
Digital Set Point Inputs									
Set Point 1	Logical input DC 0 24 V Ri > 3.3 kΩ ON > 3 V								
Set Point 2	System interface, connection to controlling automation system via optional bus module is possible								
Load Types									
Types	Ohmic loads								
	Transformer loads								
System Interface									
•	Profibus® DPV1, Modbus® RTU, DeviceNetTM, CANopen®, Profinet®, Modbus® TCP, Ethernet/IP®								
Thyro-Tool PC software vi									
Environmental Specificat									
Ambient Temperature	35°C (95°F) external fan cooling (F-type, with integrated fan)								
	45°C (113°F) passive convection cooling								
	Operation at higher temperature is possible with reduced current limits:								
	Temperature range up to 55°C (131°F): rated current -2%/°C								
	UL applications: max. 40°C (104°F)								
Type Key Example									
Туре Кеу Ехапіріе	Thyro-S 2S 400-280 HF RLP3								
Explanation	THING 020 400 200 TH NEI 0								
Thyro-S	Digital power controller								
2A	Thyro-S as 2-phase version, suitable for 3-phase load in cost-saving 3-phase circuit								
400									
	400 V rated voltage 280 A rated current								
-280	Semiconductor fuse								
F									
	Forced ventilation Failure indicator relay								
R	Failure indicator relay								
L	Load monitoring, including analog output								
Р	Power measurement								
3	Additional Thyro-S series identification								



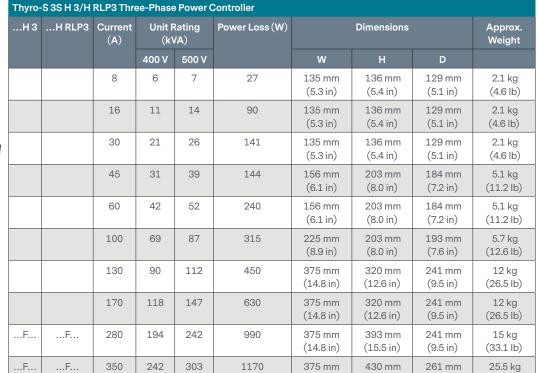
Thyro-S 1S H 3/H RLP3 Single-Phase Power Controller											
Н3	H RLP3	Current (A)	Unit Rating (kVA)			Power	Dimensions			Approx.	
			230 V	400 V	500 V	Loss (W)	W	Н	D	Weight	
		8	3.2	3.2	4	9	45 mm (1.8 in)	136 mm (5.4 in)	129 mm (5.1 in)	0.7 kg (1.5 lb)	
		16	3.7	6.4	8	30	45 mm (1.8 in)	136 mm (5.4 in)	129 mm (5.1 in)	0.7 kg (1.5 lb)	
		30	6.9	12	15	47	45 mm (1.8 in)	136 mm (5.4 in)	129 mm (5.1 in)	0.7 kg (1.5 lb)	
		45	10	18	22.5	52	52 mm (2.0 in)	203 mm (8.0 in)	184 mm (7.2 in)	1.7 kg (3.8 lb)	
		60	14	24	30	80	52 mm (2.0 in)	203 mm (8.0 in)	184 mm (7.2 in)	1.7 kg (3.8 lb)	
		100	23	40	50	105	75 mm (3.0 in)	203 mm (8.0 in)	193 mm (7.6 in)	1.9 kg (4.2 lb)	
		130	30	52	65	150	125 mm (4.9 in)	320 mm (12.6 in)	241 mm (9.5 in)	4 kg (8.8 lb)	
		170	39	68	85	210	125 mm (4.9 in)	320 mm (12.6 in)	241 mm (9.5 in)	4 kg (8.8 lb)	
F	F	280	64	112	140	330	125 mm (4.9 in)	370 mm (14.6 in)	241 mm (9.5 in)	5 kg (11.0 lb)	
F	F	350	80	140	175	390	125 mm (4.9 in)	400 mm (15.8 in)	261 mm (10.3 in)	8.4 kg (18.5 lb)	



Thyro-S 2S H 3/H RLP3 Dual-Phase Power Controller for Three-Phase Loads with Three-Phase Circuit										
Н3	H RLP3	Current (A)	Unit Rating (kVA)		Power Loss (W)		Approx. Weight			
			400 V	500 V		W	Н	D		
		8	6	7	18	89 mm (3.5 in)	136 mm (5.4 in)	129 mm (5.1 in)	1.4 kg (3.1 lb)	
		16	11	14	60	89 mm (3.5 in)	136 mm (5.4 in)	129 mm (5.1 in)	1.4 kg (3.1 lb)	
		30	21	26	94	89 mm (3.5 in)	136 mm (5.4 in)	129 mm (5.1 in)	1.4 kg (3.1 lb)	
		45	31	39	96	104 mm (4.1 in)	203 mm (8.0 in)	184 mm (7.2 in)	3.4 kg (7.5 lb)	
		60	42	52	160	104 mm (4.1 in)	203 mm (8.0 in)	184 mm (7.2 in)	3.4 kg (7.5 lb)	
		100	69	87	210	150 mm (5.9 in)	203 mm (8.0 in)	193 mm (7.6 in)	3.8 kg (8.4 lb)	
		130	90	112	300	250 mm (9.8 in)	320 mm (12.6 in)	241 mm (9.5 in)	8 kg (17.6 lb)	
		170	118	147	420	250 mm (9.8 in)	320 mm (12.6 in)	241 mm (9.5 in)	8 kg (17.6 lb)	
F	F	280	194	242	660	250 mm (9.8 in)	393 mm (15.5 in)	241 mm (9.5 in)	11 kg (24.3 lb)	
F	F	350	242	303	780	250 mm (9.8 in)	430 mm (16.9 in)	261 mm (10.3 in)	16.7 kg (36.9 lb)	



THYRO-S





CERTIFICATION AND COMPLIANCE

- UL 508A (100 kVA SCCR)
- CE

■ ISO 9001 quality standards

(14.8 in)

■ Canadian National Standard C22.2 No. 14-95

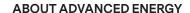
(16.9 in)

(10.3 in)

(56.2 lb)

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