

SP1PXF-TIX0240-40

1 phase | normally open solid state AC up to 280V, 40A | instantaneous | Faston IP 00



Main circuit

Output type	SCR		
Type	Synchronised zero		
Rated voltage AC	240 V		
Output voltage range AC	48...280 V		
Operating frequency	47...63 Hz		
Recommended minimum contact load	100 mA		
Maximum leakage current @ rated voltage A	10 mA		
Maximum voltage drop @ rated current	≤ 1.7 V rms		
Repetitive peak voltage in off-state	600 Vpk		
Maximum off state dv / dt	500 V / μs		
Maximum non repetitive di / dt	50 A / μs		
Contact type	Faston		
Contact	1 NO		
Load current	10 A	15 A	20 A
Thermal derating, refer to:	fig. 2	fig. 3	fig. 4
Inrush current @ 10 ms	120 A	160 A	200 A
I ² t @ 10 ms	72 A ² s	128 A ² s	200 A ² s

Control circuit

Operating voltage range	4 ... 32 V DC	90 ... 280 V AC
Max. input current @ max. operating voltage	25 mA	25 mA
Pick-up voltage	4 V DC	90 V AC
Release voltage	1 V DC	10 V AC
Power consumption DC	0.8 W	7 VA

Insulation

Rated test voltage input/output	4000 Vrms / 1 min
Rated test voltage input output/base	2500 Vrms / 1 min
Overvoltage category	III

General data

Ambient temperature storage (no ice)	-30 ... 100
Ambient temperature operation	-30 ... 80
Pick-up time	1 ms / 40 ms
Release time	1/2 cycle + 1 ms / 40 ms
Power Factor	> 0.5
Protection degree	IP 00
Dimension	fig. 4
Weight	96 g
Housing material	PBT

Product references

Description	Type	025	040
1 NO, LED, RC Protection	SP1PXF-TIX0240N...X/AC90-280V	O.r.	O.r.
1 NO, LED, TVS (*2) and RC protection	SP1PXF-TIX0240T...X/AC90-280V	O.r.	O.r.
1 NO, LED, MOV (*1) and RC protection	SP1PXF-TIX0240V...X/AC90-280V	O.r.	O.r.
1 NO, LED, RC Protection	SP1PXF-TIX0240N...X/DC4-32V	O.r.	O.r.
1 NO, LED, TVS (*2) and RC protection	SP1PXF-TIX0240T...X/DC4-32V	O.r.	O.r.
1 NO, LED, MOV (*1) and RC protection	SP1PXF-TIX0240V...X/DC4-32V	O.r.	O.r.

Select load current to complete product reference

(*1) Maximum operating voltage allowed by MOV: 300 V AC

(*2) TVS protection voltage: 480 V

Heatsinks (to be used either with SP1P/pad or thermal grease). Further heatsink options are shown in the following chapter.

Heatsinks	Thermal resistance [°C/W]	Dimensions H x W x D (mm)	Mounting type
HS_005	1.6	122x55x59	DIN rail (with clip)
HS_007	0.8	122.5x81x100.5	DIN rail (with clip)
HS_020	1.6	106x50x96	Panel (with screws)

Accessories

Thermal conducting pad	SP1P/pad
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fig. 1. Wiring diagram

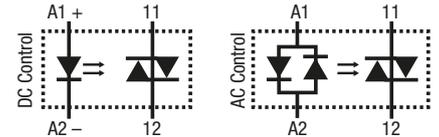


fig. 2. Thermal derating curve 25 A

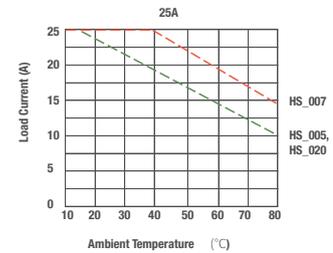


fig. 3. Thermal derating curve 40 A

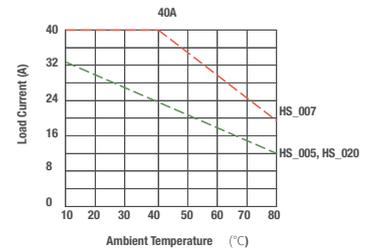
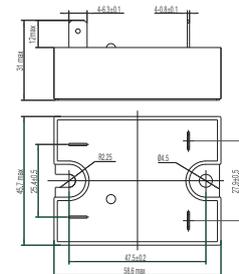


fig. 4. Dimension (mm)



Technical approvals, conformities

Standards EN 60950-1, EN 62314

Approvals US