



- Long electrical and mechanical life
- High switching frequency
- Silent operation
- No electric arc
- In compliance with EN60335 standard.

Solid state relays

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MINIATURE, SINGLE-PHASE

- Operating current up to 25A
- Operating voltage up to 280VAC
- Faston terminals
- Zero crossing switching
- cURus and VDE certified
- IP00 protection
- Screw fixing.



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HOCKEY PUCK, SINGLE-PHASE

- Operating current up to 130A
- Operating voltage up to 600VAC
- Screw terminals
- Zero crossing switching
- cURus, CSA and VDE certified
- IP20 protection
- Status indicator LED.



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HOCKEY PUCK, TWO-PHASE

- Operating current up to 50A
- Operating voltage up to 600VAC
- Screw terminals
- Zero crossing switching
- cURus, CSA and VDE certified
- IP20 protection
- Status indicator LED.



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COMPLETE WITH HEATSINK, SINGLE-PHASE

- Ready to use
- Operating current up to 60A
- Operating voltage up to 600VAC
- Zero crossing switching
- cULus certified
- IP20 protection
- Status indicator LED
- Screw or on 35mm DIN rail.



Page 7-3

**COMPLETE WITH HEATSINK, 3-PHASE,
(2 CONTROLLED)**

- Ready to use
- Operating current up to 60A
- Operating voltage up to 600VAC
- Zero crossing switching
- cULus certified
- IP20 protection
- Status indicator LED
- 35mm DIN rail.



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**COMPLETE WITH HEATSINK, 3-PHASE
(3 CONTROLLED)**

- Ready to use
- Operating current up to 48A
- Operating voltage up to 600VAC
- Zero crossing switching
- cULus certified
- IP20 protection
- Status indicator LED
- Screw or on 35mm DIN rail.

Miniature and hockey puck, single-phase



HS1A2NN025D024

new



HS1B...

Order code	Load operating voltage	Ie AC-51 at ≤40°C	Control voltage	Type of load	Qty per pkg
	[VAC]	[A]	[V]		n°

Miniature, Faston terminals.

Faston: load 6.3x0.8mm - control 4.8x0.8mm.

HS1A2NN025D024	12...280	25	4...30VDC	Resistive	4
Hockey puck, screw terminals.					
HS1B2NT025D024	12...280	25	3...32VDC	Resistive	1
HS1B2NT025E230	12...280	25	18...280VAC/DC		1
HS1B5NV040D024	24...510	40	3.5...32VDC	Resistive or inductive	1
HS1B5NV040E230	24...510	40	20...265VAC/DC		1
HS1B6NT040D024	24...600	40	3.5...32VDC	Resistive	1
HS1B6NT040E230	24...600	40	18...280VAC/DC		1
HS1B6NN050D024	24...600	50	3.5...32VDC		1
HS1B5NV060D024	24...510	60	3.5...32VDC	Resistive or inductive	1
HS1B5NV060E230	24...510	60	20...265VAC/DC		1
HS1B6NT060D024	24...600	60	3.5...32VDC	Resistive	1
HS1B6NT060E230	24...600	60	18...280VAC/DC		1
HS1B6NT090D024	24...600	90	3.5...32VDC		1
HS1B6NT090E230	24...600	90	18...280VAC/DC		1
HS1B5NV130D024	24...510	130	3.5...32VDC	Resistive or inductive	1
HS1B5NV130E230	24...510	130	20...265VAC/DC		1

General characteristics

Solid state relays (SSRs) can offer significant advantages in electrical control. SSRs have no moving parts, resulting in a very high electrical life and silent operation. SSRs also have fast switching speed and can sustain a very high switching frequency. SSRs are also resistant to vibration and shocks. Furthermore, they do not generate electric arc during the operation. Their primary use is for controlling resistive loads, such as heating elements, but can also operate small motors and other types of inductive loads. The HS... series can control loads up to 130A. Overall, SSRs offer a solid, efficient and durable solution for precise and reliable electrical control.

Operational characteristics

- Control current:
 - HS1A...: <29mA
 - HS1B...: <13mA
 - HS2B...: <24mA
- Switching mode: zero crossing
- Output protection: varistor, TVS or none (V or T or N as 7th digit in the code)
- Status indicator: LED on front (except HS1A...).

Certifications and compliance

Certifications obtained: see table below.
Compliant with standards: IEC/EN/BS 60947-4-3, IEC/EN/BS 60947-4-2, IEC/EN/BS 62314, IEC/EN/BS 6335-1.

	cURus	CSA	VDE
HS1A2NN025D024	●	—	●
HS1B2NT025D024	●	●	●
HS1B2NT025E230	●	—	●
HS1B5NV040D024	●	●	●
HS1B5NV040E230	●	●	●
HS1B6NT040D024	●	●	●
HS1B6NT040E230	●	—	●
HS1B6NN050D024	●	●	●
HS1B5NV060D024	●	●	●
HS1B5NV060E230	●	●	●
HS1B6NT060D024	●	●	●
HS1B6NT060E230	●	—	●
HS1B6NT090D024	●	●	●
HS1B6NT090E230	●	—	●
HS1B5NV130D024	●	●	●
HS1B5NV130E230	●	●	●
HS2B2NN025D024	●	●	●
HS2B6NN050D024	●	●	●
HS2B6NN051D024	●	●	●

Hockey puck, two-phase

new



HS2B...

Order code	Load operating voltage	Ie AC-51 at ≤40°C	Control voltage	Type of load	Qty per pkg
	[VAC]	[A]	[V]		no.

Hockey puck, Faston terminals.

HS2B2NN025D024	12...280	25	3...32VDC	Resistive	1
Hockey puck, screw terminals.					
HS2B6NN050D024	24...600	50 ②	10...30VDC	Resistive	1
HS2B6NN051D024	24...600	50 ③	10...30VDC		1

① Ratings valid with correct heatsink.

② I_t 2800A2s.③ I_t 7200A2s.

Complete with heatsink, single-phase



HS1C...

new

Order code	Load operating voltage	I _e AC-51 at ≤40°C	Control voltage	Type of load	Qty per pkg
	[VAC]	[A]	[V]		n°
Complete with heatsink, ready to use, screw terminals.					
HS1C2HV020D024	12...275	20	3...32VDC	Resistive or inductive	1
HS1C6HV020D024	48...600	20	4...32VDC		1
HS1C6HV020A230	48...600	20	90...280VAC		1
HS1C2HV025D024	12...275	25	3...32VDC		1
HS1C6HV025D024	48...600	25	4...32VDC		1
HS1C6HV025A230	48...600	25	90...280VAC		1
HS1C2HV030D024	12...275	30	3...32VDC		1
HS1C6HV030D024	48...600	30	4...32VDC		1
HS1C6HV030A230	48...600	30	90...280VAC		1
HS1C6HV040D024	48...600	40	4...32VDC		1
HS1C6HV040A230	48...600	40	90...280VAC		1
HS1C6HV060D024	48...600	60	4...32VDC		1
HS1C6HV060A230	48...600	60	90...280VAC		1

Complete with heatsink, three-phase (2 controlled)



HS2...

new

Order code	Load operating voltage	I _e AC-51 at ≤40°C	Control voltage	Type of load	Qty per pkg
	[VAC]	[A]	[V]		n°
Complete with heatsink, ready to use, screw terminals.					
HS2C6HV015D024	48...600	15	4...32VDC	Resistive or inductive	1
HS2C6HV015A230	48...600	15	90...280VAC		1
HS2C6HV030D024	48...600	30	4...32VDC		1
HS2C6HV030A230	48...600	30	90...280VAC		1
HS2C6HV060D024	48...600	60	4...32VDC		1
HS2C6HV060A230	48...600	60	90...280VAC		1

Complete with heatsink, three-phase (3 controlled)



HS3C...

new

Order code	Load operating voltage	I _e AC-51 at ≤40°C	Control voltage	Type of load	Qty per pkg
	[VAC]	[A]	[V]		n°
Complete with heatsink, ready to use, screw terminals.					
HS3C6HV020D024	48...600	20	4...32VDC	Resistive or inductive	1
HS3C6HV020A230	48...600	20	90...280VAC		1
HS3C6HV025D024	48...600	25	4...32VDC		1
HS3C6HV025A230	48...600	25	90...280VAC		1
HS3C6HV040D024	48...600	40	4...32VDC		1
HS3C6HV040A230	48...600	40	90...280VAC		1
Complete with heatsink, ready to use, screw terminals, high I ² t.					
HS3D5HV024E230	24...520	24	24...255VACDC	Resistive or inductive	4
HS3D5HV048E230	24...520	48	24...255VACDC		1



HS3D...

General characteristics

Solid state relays (SSRs) can offer significant advantages in electrical control. SSRs have no moving parts, resulting in a very high electrical life and silent operation. SSRs also have fast switching speed and can sustain a very high switching frequency. SSRs are also resistant to vibration and shocks. Furthermore, they do not generate electric arc during the operation. Their primary use is for controlling resistive loads, such as heating elements, but can also operate small motors and other types of inductive loads. HS1...H... series can control loads up to 60A. Overall, SSRs offer a solid, efficient, and durable solution for precise and reliable. HS1... versions have heatsink factory mounted. They are ready to use and fast mounting on DIN rail.

Operational characteristics

- Control current:
 - HS1...D...: <12mA
 - HS1...A...: <22mA
 - HS2...D...: <21mA
 - HS2...A...: <50mA
 - HS3...D...: <27mA
 - HS3...A...: <50mA
- Input-output insulation: 5kV
- Switching mode: zero crossing
- Output protection: varistor
- Status indicator: LED on front.

Certifications and compliance

Certifications obtained: cULus.
Compliant with standards: IEC/EN/BS 62314; IEC/EN/BS 61000-6-2; IEC/EN/BS 61000-6-3.

Accessories



HSBXH1



HSBXP...



HSBX80



HSCXM...

new

Order code	Characteristics	Qty per pkg n°	Wt [kg]
Heatsinks for HS1B... and HS2B... solid state relays.			
HSBXH1	Heatsink 2.2K/W for one HS1B... or HS2B... solid state relay	12	0.290
HSBXH2	Heatsink 1.2K/W for one or two HS1B... or HS2B... solid state relay	2	0.600
HSBXH3	Heatsink 0.9K/W for one or two HS1B... or HS2B... solid state relay	1	1.400
HSBXH4D024	Heatsink 0.3K/W for one HS1B... or HS2B... solid state relay; complete with fan 24VDC	1	1.720
HSBXH5A230	Heatsink 0.3K/W for one or two HS1B... or HS2B... solid state relay; complete with fan 230VAC	1	1.720
Thermal pads for HS1B... and HS2B... solid state relays.			
HSBXP0050	Adhesive thermal pad – 50 pcs	1	0.050
HSBXP0100	Adhesive thermal pad – 100 pcs	1	0.100
HSBXP1000	Adhesive thermal pad – 1000 pcs	1	1.200
Fixing element for HS1B... solid state relays.			
HSBX80	DIN rail adapter. 6K/W dissipation	1	0.080
Current monitoring modules for HS1C... solid state relays.			
HSCXM1	Load current monitoring. Supply 24VDC	1	0.090
HSCXM2	Load current monitoring with Modbus-RTU over RS485 communication. Supply 24VDC	1	0.090
HSCXM3	Temperature controller and load current monitoring with Modbus-RTU over RS485 communication. Supply 24VDC	1	0.090

General characteristics

HEATSINKS FOR HS1B... AND HS2B... SOLID STATE RELAYS

The heatsinks HSBXH1, HSBXH2 and HSBXH3 can be fixed by screw or on DIN rail.

HSBXH4D024 and HSBXH5A230 are for mounting on DIN rail only.

All the heatsinks contains the screws to fix the solid state relay.

THERMAL PADS FOR HS1B... AND HS2B... SOLID STATE RELAYS

The thermal pad mounting on the solid state relays is recommended to ensure effective heat dissipation, to prevent overheating and to enhance the overall reliability and performance.

CURRENT MONITORING MODULES FOR HS1C... SOLID STATE RELAYS

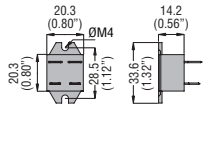
The accessory snaps onto the front of the HS1C... solid state relay.

The current monitor modules have a button to set the rated current of the load. In case the current is +10% or -10% of the set threshold, an alarm will be generated. This alarm, for the version with communication, will be also transmitted via Modbus.

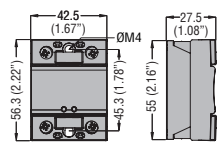
Three LED on the front indicate the working status.

Current measuring range: 2A...40A.

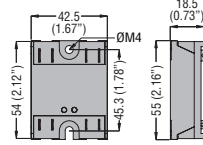
HS1A2NN025D024



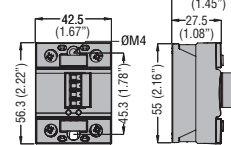
HS1B...



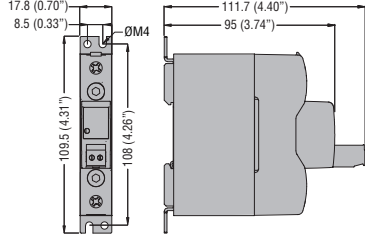
HS2B2NN025D024



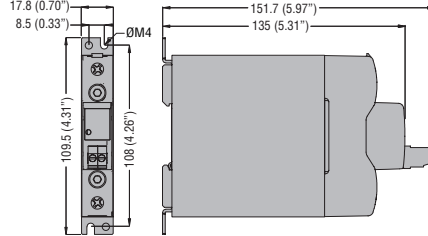
HS2B3...



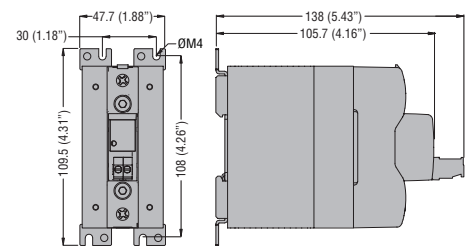
HS1C...020... - HS1C...025...



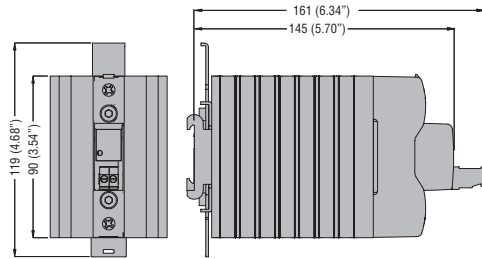
HS1C...030...



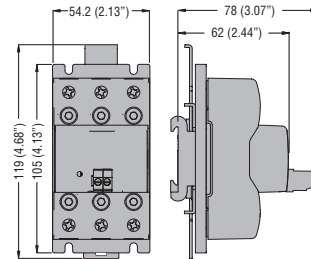
HS1C...040...



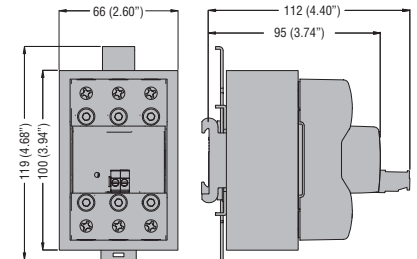
HS1C...060...



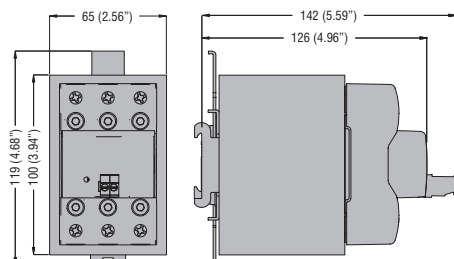
HS2C...015...



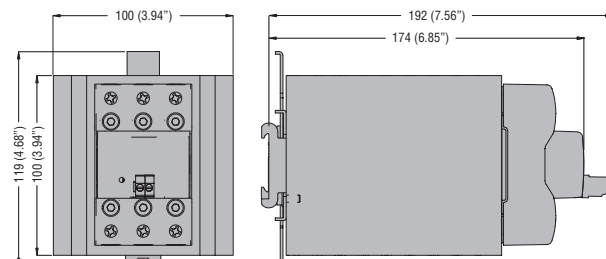
HS2C...030... - HS3C...020...



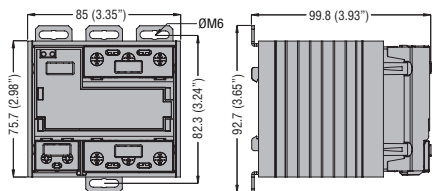
HS3C...025...



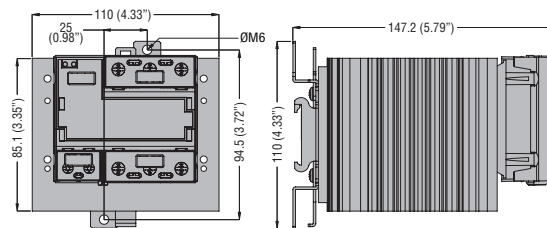
HS2C...060... - HS3C...040...



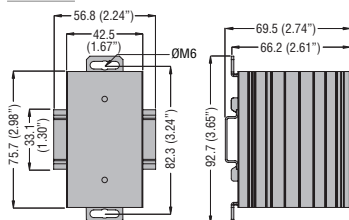
HS3D...024



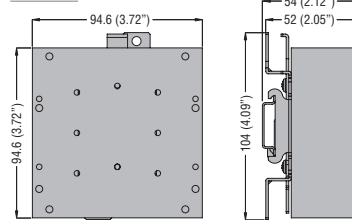
HS3D...048



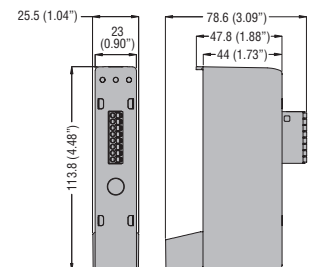
HSBXH1



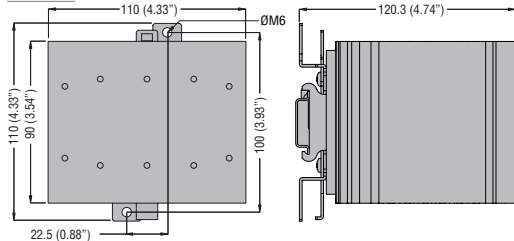
HSBXH2



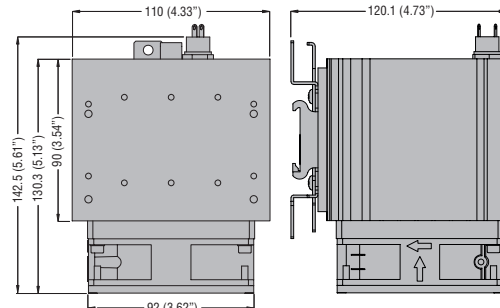
HSCXM...



HSBXH3



HSBXH4



7 Solid state relays

Technical characteristics

TYPE		HS1A2NN 025D024	HS1B2NT 025D024	HS1B2NT 025E230	HS1B5NV 040D024	HS1B5NV 040E230	HS1B6NT 040D024	HS1B6NT 040E230	HS1B6NN 050D024	HS1B5NV 060D024	
MODEL		Single-phase									
INPUT CHARACTERISTICS											
Control voltage		4...30VDC	3...32VDC	18...280VAC/DC	3.5...32VDC	20...265VAC/DC	3.5...32VDC	18...280VAC/DC	3.5...32VDC	3.5...32VDC	
Operating voltage limits	pick-up	V	4	3	18	3.5	95	3.5	18	3.5	3.5
	drop-out	V	1	1	8	2	5	2	8	2	2
Input current at min...max voltage	mA	3...29	10...13	4.5...6	10...13	5...10	10...13	4.5...6	10...13	10...13	
OPERATING TIMES											
switching -on		Half cycle max									
switching -off		Half cycle max									
OUTPUT CHARACTERISTICS											
Switching mode		Zero crossing switching									
Rated operating voltage	VAC	12...280	12...280	12...280	24...510	24...510	24...600	24...600	24...600	24...510	
Blocking voltage	V	600	600	600	1200	1200	1200	1200	1200	1200	
Operational frequency (min...max)	Hz	45...65									
Rated operating current AC-51 (resistive load) at 40°C ③	A	25	25	25	40	40	40	40	50	60	
Rated operating current AC-51 (resistive load) at 55°C ③	A	22	20	20	35	35	35	35	42	52	
Heatsink for use at 40°C and 55°C at rated current AC-51	K/W	≤1.2	≤2.2	≤2.2	≤0.9	≤0.9	≤0.9	≤0.9	≤0.9	≤0.55	
Rated operating current AC-53 (motor load) at 40°C	A	7	-	-	7	7	-	-	-	12	
Min. operational current	A	0.005	0.05								
Input - Output isolation	V	4000	4000								
Input - Output to metal base	V	2500	4000								
Output protection type		-	TVS		VDR		TVS		-	VDR	
I²t	A²s	340	600		1250		1680		2800		
TERMINAL CHARACTERISTICS											
Control terminals	Type	Faston 4.8x0.8				Screw M4					
Tool	Type	-				PZ 2					
Tightening torque	Nm	-				1.2...2					
	lb.in	-				10.6...17.7					
Conductor section connectable (control terminals) with 1 or 2 wires min...max	AWG stranded	16...14 (Faston lug)				18...14					
	n°	-				-					
Flexible w/o lug	mm²	-				0.75...2.5					
Flexible c/w insulated spade lug	mm²	0.75...6 (Faston lug)				0.75...2.5					
Load terminals	Type	Faston 6.3x0.8				Screw M5					
Tool	Type	-				PZ 2					
Tightening torque	Nm	-				2...3					
Load terminals (min...max)	lb.in	-				20.4					
		-				-					
Conductor section connectable (load terminals) with 1 or 2 wires min...max	AWG stranded	16...10 (Faston lug)		16...10			16...10②				
	n°	-		-			-				
Flexible w/o lug	mm²	-		-			1.5...6				
Flexible c/w insulated lug	mm²	0.75...6 (Faston lug)		1.5...6			1.5...6①				
AMBIENT CONDITIONS											
Operating temperature	°C	-40...+90							-55...+90		
Storage temperature	°C	-40...+100							-55...+125		
Operating position allowable		Any									
Fixing		Screw									

- ① Wires up to 50mm² can be connected with specific spade lugs or ring lugs. Lug width max 12.6mm.
- ② Wires up to AWG0 can be connected with specific spade lugs or ring lugs. Lug width max 12.6mm.
- ③ Ratings valid with proper heatsink.
- ④ 110A max with 0.3K/W heatsink.

7 Solid state relays

Technical characteristics

HS1B5NV 060E230	HS1B6NT 060D024	HS1B6NT 060E230	HS1B6NT 090D024	HS1B6NT 090E230	HS1B5NV 130D024	HS1B5NV 130E230	HS2B2NN 025D024	HS2B6NN 050D024	HS2B6NN 051D024	
Single-phase							Two-phase			
20...265VAC/DC	3.5...32VDC	18...280VAC/DC	3.5...32VDC	18...280VAC/DC	3.5...32VDC	20...265VAC/DC	3...32VDC	10...30VDC	10...30VDC	
20VAC-18VDC	3.5	18	3.5	18	3.5	20VAC-18VDC	3	10	10	
5	2	8	2	8	2	5	2	2	2	
5...10	10...13	4.5...6	10...13	4.5...6	10...13	5...10	10...13	6...24	6...24	
Half cycle max										
Half cycle max										
Zero crossing switching										
24...510	24...600	24...600	24...600	24...600	24...510	24...510	12...280	24...600	24...600	
1200	1200	1200	1200	1200	1200	1200	600	1200	1200	
45...65										
60	60	60	90	90	130	130	25	50	50	
52	52	52	80	80	105	105	21	37	50	
≤0.55	≤0.55	≤0.55	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	
12	-	-	-	-	32	32	-	-	-	
0.05										
4000										
4000							2500	4000		
VDR	TVS				VDR		-	-	-	
2800	7200				22000		340	2800	7200	
Screw M4							Faston 4.8x0.8	Screw		
PZ 2							-	Blade 3.5mm		
1.2...2							-	0.5Nm		
10.6...17.7							-	4.5		
18...14							16...14 (Faston lug)	28...12		
0.75...2.5							-	0.75...2.5		
0.75...2.5							0.75...6 (Faston lug)	0.75...2.5		
Screw M5							Faston 6.3x0.8	Screw M5		
PZ 2							-	PZ 2		
2...3							-	2...3		
20.4							-	20.4		
16...10							16...10 (Faston lug)	16...10		
1.5...6							-	1.5...6		
1.5...6							0.75...6 (Faston lug)	1.5...6		
-55...+90							-40...+90	-55...+90		
-55...+125							-40...+100	-55...+125		
Any										
Screw										

7 Solid state relays

Technical characteristics

TYPE		HS1C2HV 020D024	HS1C6HV 020D024	HS1C6HV 020A230	HS1C2HV 025D024	HS1C6HV 025D024	HS1C6HV 025A230	HS1C2HV 030D024	HS1C6HV 030D024	HS1C6HV 030A230	HS1C6HV 040D024	HS1C6HV 040A230	
MODEL		Single-phase											
INPUT CHARACTERISTICS													
Control Voltage		3-32VDC	4-32VDC	90-280VAC	3-32VDC	4-32VDC	90-280VAC	3-32VDC	4-32VDC	90-280VAC	4-32VDC	90-280VAC	
Operating voltage limits	pick-up	V	3	4	45	3	4	45	3	4	45	4	45
	drop-out	V	2	2	20	2	2	20	2	2	20	2	20
Input current at min...max voltage	mA	4...12	8...12	5...22	4...12	8...12	5...22	4...12	8...12	5...22	8...12	5...22	
OPERATING TIMES													
switching -on		Half cycle max											
switching -off		Half cycle max											
OUTPUT CHARACTERISTICS													
Switching mode		Zero crossing switching											
Rated operating voltage	VAC	12...275VAC	48...600VAC	12...275VAC	48...600VAC	12...275VAC	48...600VAC	12...275VAC	48...600VAC	12...275VAC	48...600VAC	48...600VAC	
Blocking Voltage	V	600	1200	600	1200	600	1200	600	1200	600	1200	1200	
Operational frequency (min...max)	Hz	45...65											
AC-51 rated operating current (resistive load) at 40°C	A	20			25			30			40		
AC-51 rated operating current (resistive load) at 55°C	A	17			22			25			32		
AC-53 rated operating current (motor load) at 40°C	A	-											
Min. operational current	A	0.165											
Input - Output isolation	V	5000											
Input - Output to metal base	V	5000											
Output protection type		VDR											
I ² t	A ² s	792					1350						
TERMINAL CHARACTERISTICS													
Control terminals	Type	Screw											
Tool	Type	Blade screwdriver 3.5mm											
Tightening torque	Nm	0.5Nm											
	lb.in	4.5											
Conductor section connectable (control terminals) min...max													
AWG stranded	n°	28...12											
Flexible w/o lug	mm ²	0.75...2.5											
Flexible c/w insulated spade lug	mm ²	0.75...2.5											
Load terminals	Type	Screw											
Tool	Type	PH2											
Tightening torque	Nm	1.5											
Load terminals (Min...Max)	lb.in	13.3											
Conductor section connectable (load terminals) with 1 or 2 wires min...max													
AWG stranded	n°	18...10											
Flexible w/o lug	mm ²	1...6											
Flexible c/w insulated lug	mm ²	1...16											
AMBIENT CONDITIONS													
Operating temperature	°C	-40...+80°C											
Storage temperature	°C	-40...+130°C											
Operating position allowable		On vertical plane											
Fixing		Screw or on 35mm DIN rail											

① Wires up to 50mm² can be connected with specific spade lugs or ring lugs. Lug width max 12.6mm.
 ② Wires up to AWG0 can be connected with specific spade lugs or ring lugs. Lug width max 12.6mm.

7 Solid state relays

Technical characteristics

HS1C6HV 060D024	HS1C6HV 060A230	HS2C6HV 015D024	HS2C6HV 015A230	HS2C6HV 030D024	HS2C6HV 030A230	HS2C6HV 060D024	HS2C6HV 060A230	HS3C6HV 020D024	HS3C6HV 020A230	HS3C6HV 025D024	HS3C6HV 025A230	HS3C6HV 040D024	HS3C6HV 040A230	HS3D5HV 024E230	HS3D5HV 048E230
Single-phase		Three-phase (2 controlled)						Three-phase (3 controlled)							
4-32VDC	90-280VAC	4-32VDC	90-280VAC	4-32VDC	90-280VAC	4-32VDC	90-280VAC	4-32VDC	90-280VAC	4-32VDC	90-280VAC	4-32VDC	90-280VAC	24...255 VAC/DC	24...255 VAC/DC
4	45	4	90	4	90	4	90	4	90	4	90	4	90	24	24
2	20	2	20	2	20	2	20	2	20	2	20	2	20	2	2
8...12	5...22	13...21	23...50	13...21	23...50	13...21	23...50	17...27	23...50	17...27	23...50	17...27	23...50	4.5...6	4.5...6
Half cycle max															
Half cycle max															
Zero crossing switching															
48...600VAC														24...520VAC	
1200														1600	
45...65															
60	60	15 (UL 12)	15 (UL 12)	30	30	60 (UL 50)	60 (UL 50)	20	20	25	25	40	40	24	48
40	40	12 (UL 10)	12 (UL 10)	25	25	48 (UL 40)	48 (UL 40)	17	17	20	20	32	32	18	38
-	-	7	7	13.5	13.5	15	15	12.5	12.5	13.5	13.5	15	15	12	32
0.165	0.165	0.16	0.16	0.16	0.16	0.16	0.16	-	-	-	-	-	-	0.05	
5000														4000	
5000														4000	
VDR														VDR	
1350		1404												2800	22000
Screw														Screw M4	
Blade screwdriver 3.5mm														PZ 2	
0.5Nm														1.2...2	
4.5														10.6...17.7	
														18...14	
28...12															
0.75...2.5														0.75...2.5	
0.75...2.5														0.75...2.5	
Screw														Screw M5	
PH2														PZ 2	
1.5														2...3	
13.3														20.4	
18...10														6...10	
1...6														1.5...6	
1...16														1.5...6	
-40...+80°C														-40...+90	
-40...+130°C														-40...+125	
On vertical plane														Any	
Screw or on 35mm DIN rail														Screw	