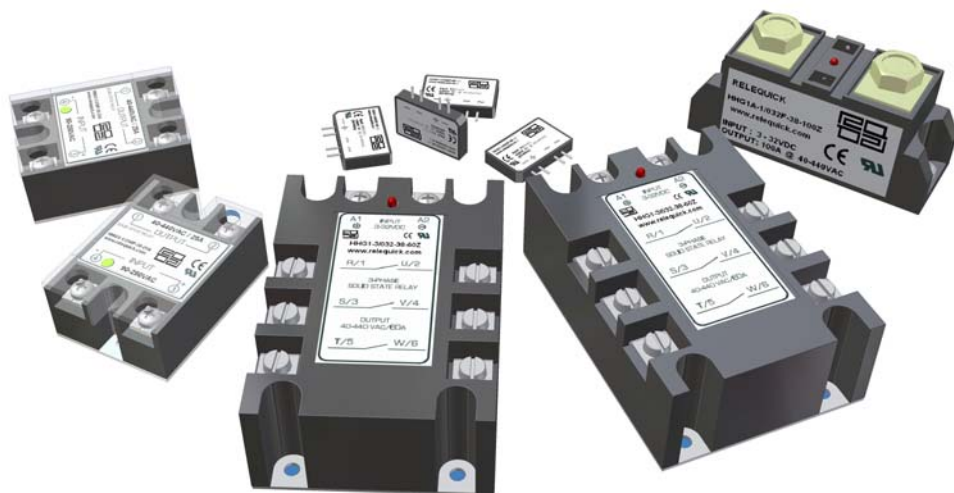




## “Solid State Relays”



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## SINGLE PHASE SOLID STATE RELAY HHG1-1 (input voltage VDC)

Input circuit	
LED indicate	Yes
Control voltage range	3-32VDC
Control current range	6-35mA
Min. turn-on voltage	3VDC
Min. turn-off voltage	1VDC
Min. input impedance	1500( $\Omega$ )
Opposite voltage	32VDC
Output circuit	
Max. load current	25, 60, 80 (A)
Load voltage range	40-440VAC
Max. non-repetitive peak voltage	660VAC
Max. non-repetitive peak current	165 A
Max. off-state leakage current	$\leq 10$ mA
Max. on-state voltage drop	<1,6VAC
Min. load current	0.1 A
Operating frequency range	47 – 63 Hz
General data	
Max. turn-on time	10ms
Max. turn-off time	10ms
Min. insulation resistance (between input and output, input / output and cover)	500M $\Omega$
Insulation dielectric strength	$\geq 2500$ VAC
Max. capacitance (between input and output)	10pF
Dimensions (L x W x H)	57 x 44 x 27 (mm)
Weight	120gr
Storage temperature	-25 +100°C
Operating temperature	-25 +70°C

Ordering part number: HHG1-1/032F - 38 - ( \_ ) Z  
( \_ ): Max. load current (A) 25, 60, 80



## SINGLE PHASE SOLID STATE RELAY HHG1-1 (input voltage VAC)

Input circuit	
LED indicate	Yes
Control voltage range	90-250 VAC
Control current range	5-35mA
Min. turn-on voltage	90VAC
Min. turn-off voltage	10VAC
Min. input impedance	1500( $\Omega$ )
Output circuit	
Max. load current	25, 60, 80 (A)
Load voltage range	40-440VAC
Max. non-repetitive peak voltage	660VAC
Max. non-repetitive peak current	165 A
Max. off-state leakage current	$\leq 10\text{mA}$
Max. on-state voltage drop	$< 1,6\text{VAC}$
Min. load current	0.1 A
Operating frequency range	47 - 63 Hz
General data	
Max. turn-on time	10ms
Max. turn-off time	10ms
Min. insulation resistance (between input and output, input / output and cover)	500M $\Omega$
Insulation dielectric strength	$\geq 2500\text{VAC}$
Max. capacitance (between input and output)	10pF
Dimensions (L x W x H)	57 x 44 x 27 (mm)
Weight	120gr
Storage temperature	-25 +100 $^{\circ}\text{C}$
Operating temperature	-25 +70 $^{\circ}\text{C}$

Ordering part number: HHG1-1/250F - 38 - ( \_ ) Z  
( \_ ): Max. load current (A) 25, 60, 80



## THREE PHASES SOLID STATE RELAY HHG1-3 (input voltage VDC)

Input circuit	
LED indicate	YES
Control voltage range	3 - 32 VDC
Control current range	12 - 30mA
Min. turn-on voltage	3VDC
Min. turn-off voltage	1VDC
Min. input impedance	1500( $\Omega$ )
Opposite voltage	32VDC

Output circuit	
Max. load current	25, 60, 80, 120 (A)
Load voltage range	40-440VAC
Max. non-repetitive peak voltage	660VAC
Max. non-repetitive peak current	165 A
Max. off-state leakage current	$\leq 10\text{mA}$
Max. on-state voltage drop	$< 1,6\text{VAC}$
Min. load current	0.1 A
Operating frequency range	47 – 63 Hz

General data	
Max. turn-on time	10ms
Max. turn-off time	10ms
Min. insulation resistance (between input and output, input / output and cover)	500M $\Omega$
Insulation dielectric strength	$\geq 2500\text{VAC}$
Max. capacitance (between input and output)	10pF
Dimensions (L x W x H)	106 x 75 x 32 (mm)
Weight	370gr
Storage temperature	-25 +100°C
Operating temperature	-25 +70°C

Ordering part number: HHG1-3/032F - 38 - ( \_ \_ ) Z  
 ( \_ ): Max. load current (A) 25, 60, 80, 120



### THREE PHASES SOLID STATE RELAY HHG1-3 (input circuit VCA)

Input circuit	
LED indicate	Yes
Control voltage range	90-250VAC
Control current range	12-30mA
Min. turn-on voltage	90VAC
Min. turn-off voltage	30VAC
Min. input impedance	600( $\Omega$ )
Output circuit	
Max. load current	25, 60, 80,120 (A)
Load voltage range	40-440VAC
Max. non-repetitive peak voltage	660VAC
Max. non-repetitive peak current	165 A
Max. off-state leakage current	$\leq 10\text{mA}$
Max. on-state voltage drop	$< 1,6\text{VAC}$
Min. load current	0.1 A
Operating frequency range	50 – 60 Hz
General data	
Max. turn-on time	10ms
Max. turn-off time	10ms
Min. insulation resistance (between input and output, input / output and cover)	500M $\Omega$
Insulation dielectric strength	$\geq 2500\text{VAC}$
Max. capacitance (between input and output)	10pF
Dimensions (L x W x H)	106 x 75 x 32 (mm)
Weight	370gr
Storage temperature	-25 +100°C
Operating temperature	-25 +70°C

Ordering part number: HHG1-3/250F - 38 - ( \_ \_ ) Z  
 ( \_ ): Max. load current (A) 25, 60, 80, 120



## MINIATURE SOLID STATE RELAY HHG1-1

### Input circuit

Control voltage range	3-32VDC
Control current range	6-35mA
Min. turn-on voltage	3VDC
Min. turn-off voltage	1VDC
Min. input impedance	1500( $\Omega$ )
Opposite voltage	32VDC

### Output circuit

Max. load current	3 , 4 (A)
Load voltage range	40-440VAC
Max. non-repetitive peak voltage	660VAC
Max. non-repetitive peak current	7A
Max. off-state leakage current	$\leq 10$ mA
Max. on-state voltage drop	<1,6VAC
Min. load current	0.1 A
Operating frequency range	50 – 60 Hz

### General data

Max. turn-on time	10ms
Max. turn-off time	10ms
Min. insulation resistance (between input and output, input / output and cover)	500M $\Omega$
Insulation dielectric strength	$\geq 1500$ VAC
Max. capacitance (between input and output)	10pF
Dimensions (L x W x H)	44 x 20 x 11 (mm)
Weight	22gr
Storage temperature	-25 +100°C
Operating temperature	-25 +70°C

Ordering part number: HHG1-1/032F - 38 - ( \_ \_ ) Z  
( \_ ): Max. load current (A) 3 , 4



## INDUSTRIAL SOLID STATE RELAY HHG1A-1

### Input circuit

LED indicate	Yes
Control voltage range	3-32VDC
Control current range	6-35mA
Min. turn-on voltage	3VDC
Min. turn-off voltage	1VDC
Min. input impedance	1500( $\Omega$ )
Opposite voltage	32VDC

### Output circuit

Max. load current	100, 150, 250 (A)
Load voltage range	40-440VAC
Max. non-repetitive peak voltage	660VAC
Max. non-repetitive peak current	800 A
Max. off-state leakage current	$\leq 10\text{mA}$
Max. on-state voltage drop	$< 1,8\text{VAC}$
Min. load current	0.1 A
Operating frequency range	50 – 60 Hz

### General data

Max. turn-on time	10ms
Max. turn-off time	10ms
Min. insulation resistance (between input and output, input / output and cover)	500M $\Omega$
Insulation dielectric strength	$\geq 2500\text{VAC}$
Max. capacitance (between input and output)	15pF
Dimensions (L x W x H)	94 x 34 x 43 (mm)
Weight	-25 +100°C
Storage temperature	-25 +70°C

Ordering part number: HHG1A-1/032F - 38 - ( \_ \_ ) Z  
( \_ ):Max. load current (A) 100, 150, 250