




Технические характеристики

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Solid state relays PCB type, 1-phase

	AC output		DC output
Types	RP1A - RP1B 3/5/5.5 AAC	RP..10 10 AAC	RP1D 1/4/8 ADC
PCB mounting SSRs, AC and DC operating. Rated isolation voltage ≥ 4000 Vrms.			
Dimensions HxWxD (mm)	25.4 x 43 x 10.5	37 x 43 x 22	25.4 x 43 x 10.5
Features	Standard AC switching SSR	With integral heatsink	DC switching SSR
Input specifications			
Control input range	3-32 VDC [RP1A23..] 3-32 VDC [RP1A40..] 4-32 VDC [RP1A48..] 16-32 VAC [RP1A23A6]	3-32 VDC [RP1A23..] 4-32 VDC [RP1A40..] 4-32 VDC [RP1A48..]	4.5 - 32 VDC
Max. input current	10 mA	10 mA	15 mA
Output specifications			
Rated operational current			DC1: 1/4/8 ADC
AC 51 @ Ta=25°C	3 A [RP1...3] 5 A [RP1...5] 5.5 A [RP1...6]	10 A	
AC 53a @ Ta=25°C	2 A [RP1...3] 3 A [RP1...5] 5 A [RP1...6]	7 A	
Min. operational current	20 mA	10 mA	1 mADC
Non rep. surge current (t=20 ms)	65 Ap [RP1...3] 80 Ap [RP1...5] 250 Ap [RP1...6]	250 AP	
Off-state leakage current	≤ 1 mA	≤ 3 mA	0.01 mADC
I ² t for fusing (t=10 ms)	20 A ² s [RP1...3] 50 A ² s [RP1...5] 340 A ² s [RP1...6]	340 A2s	
Critical dV/dt off-state	250 V/ μ s [RP1...3] 500 V/ μ s [RP1...5] 500 V/ μ s [RP1...6]	1000 V/ μ s	
General specifications			
Operational voltage range	12-265 Vrms [RP1A23..] 20-440 Vrms [RP1A40..] 20-530 Vrms [RP1A48..]	12-265 Vrms [RP1A23..] 20-440 Vrms [RP1A40..] 20-530 Vrms [RP1A48..]	1- 60 VDC [RP1D060...] 1 - 350 VDC [RP1D350...]
Blocking voltage	650 Vp [RP1A23..] 850 Vp [RP1A40..] 1000 Vp [RP1A48..]	650 Vp [RP1A23..] 850 Vp [RP1A40..] 1000 Vp [RP1A48..]	
Power factor	0.5	0.5	
Operating temperature	-20°C to +70°C	-30°C to +80°C	-20°C to +80°C
Terminals	4 pins x \varnothing 0.1 mm	4 pins x \varnothing 0.1 mm	4 pins x \varnothing 0.1 mm
Approvals/Marks	CE - UR - cUR - EAC - VDE	CE - UR - cUR - EAC	CE - UR - cUR - EAC
References			
	3 A	10 A	1 A
	RP1A23D3	RP1A23D10	RP1D350D1
	RP1A40D3	RP1A40D10	
	RP1A48D3	RP1A48D10	4 A
	5 A		RP1D060D4
	RP1A23D5		
	RP1A40D5		8 A
	RP1A48D5		RP1D060D8
	5.5 A		
	RP1A23D6		
	RP1A23A6		
	RP1A40D6		
	RP1A48D6		

* Other options available on request: Instant-on switching (RP1B..), see Accessories for DIN-rail adaptor.

Solid state relays, 1-phase

Slimline - AC output

Types	RGS1A..KKE 25/50/75/90 AAC	RGS1A..KGE 50/90 AAC	RGS1A..MKE 25/50/90 AAC
Single-phase, chassis mounting with LED for control status indication, IP20 protection, 45-65 Hz operating frequency, ≥4000 VACrms isolation voltage, 100 kArms short circuit current rating, certified motor ratings.			
Dimensions HxWxD (mm)	90 x 17.8 x 50.6	90 x 17.8 x 50.6	90 x 17.8 x 63.6
Features	17.8 mm wide solid state relay with integrated varistor on output, AC or DC control range, screw terminals with captivated clamp for power and control connections, E-type layout	17.8 mm wide solid state relay with integrated varistor on output, AC or DC control range, box clamp for power connections (up to 25 mm ² /AWG3), screw for control connections, E-type layout	17.8 mm wide solid state relay with integrated varistor on output, AC or DC control range, screw terminals with captivated clamp for power connections and pluggable spring for control, E-type layout
Input specifications			
Control input range	3-32 VDC [RG.23D.] / 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	4-32 VDC [RG..D.] 20-275 VAC, 24-190 VDC [RG..A..]	3-32 VDC [RG. 23D.], 4-32 VDC [RG..60D..] 20-275 VAC, 24-190 VDC [RG..A..]
Max. input current	11 mA DC [RG..D.] 30 mA AC [RG..A.]	11 mA DC [RG..D.] 30 mA AC [RG..A..]	11 mA DC [RG..D.] 30 mA AC [RG..A..]
Output specifications			
Rated operational current AC-51 @ Ta=40°C	25 AAC [RG..25] / 50 AAC [RG..50/51] 75 AAC [RG..75] / 90 AAC [RG..90/91/92]	50 AAC [RG..50] 90 AAC [RG..92]	25 AAC [RG..25] / 50 AAC [RG..50] 90 AAC [RG..90/92]
AC-53a @ Ta=40°C	5 AAC [RG..25] / 10 AAC [RG..50/51] 14.8 AAC [RG..75] / 18 AAC [RG..90/91/92]	10 AAC [RG..50] 18 AAC [RG..92]	5 AAC [RG..25] / 10 AAC [RG..50] 18 AAC [RG..90/92]
Min. operational current	150 mA AC [RG..25] / 250 mA AC [RG..50/51] 400 mA AC [RG..75] / 500 mA AC [RG..90/91/92]	250 mA AC [RG..50] 500 mA AC [RG..92]	150 mA AC [RG..25] / 250 mA AC [RG..50] 500 mA AC [RG..90/92]
Non rep. surge current (t=10 ms)	325 Ap [RG..25] / 600 Ap [RG..50/51] 800 Ap [RG..75] / 1150 Ap [RG..90/91] 1900 Ap [RGS..92]	600 Ap [RG..50] 1900 Ap [RG..92]	325 Ap [RG..25] / 600 Ap [RG..50] 1150 Ap [RG..90] / 1900 Ap [RG..92]
Max. Off-state leak current	3 mA AC	3 mA AC	3 mA AC
I ² t for fusing (t=10 ms)	525 A ² s [RG..25] / 1800 A ² s [RG..50/51] 3200 A ² s [RG..75] / 6600 A ² s [RG..90/91] 18000 A ² s [RGS..92]	1800 A ² s [RG..50] 18000 A ² s [RG..92]	525 A ² s [RG..25] / 1800 A ² s [RG..50] 6600 A ² s [RG..90] / 18000 A ² s [RG..92]
Critical dV/dt (@ Tj init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60...] 42-690 VAC + 10% [RG..69..]*	42-600 VAC +10%	24-240 VAC +10% [RG..23..] 42-600 VAC +10% [RG..60..]
Blocking voltage	800 Vp [RG..23..] 1200 Vp [RG..60..] 1600 Vp [RG..60..51/91]	1200 Vp	800 Vp [RG..23..] 1200 Vp [RG..60..]
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to 80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cURus - CSA - EAC - VDE	CE - cURus - CSA - EAC - VDE	CE - cURus - CSA - EAC - VDE
References			
230 VAC, 800 Vp	25 AAC: RGS1A23X25KKE		25 AAC: RGS1A23X25MKE
	50 AAC: RGS1A23X50KKE		50 AAC: RGS1A23X50MKE
600 VAC, 1200 Vp	25 AAC: RGS1A60X25KKE		25 AAC: RGS1A60X25MKE
	50 AAC: RGS1A60X50KKE	50 AAC: RGS1A60X50KGE	50 AAC: RGS1A60X50MKE
	75 AAC: RGS1A60X75KKE		
	90 AAC: RGS1A60X90KKE		90 AAC: RGS1A60X90MKE
600 VAC, 1600 Vp	90 AAC: RGS1A60X92KKE	90 AAC: RGS1A60X92KGE	90 AAC: RGS1A60X92MKE
	50 AAC: RGS1A60X51KKE		
690 VAC, 1600 Vp	90 AAC: RGS1A60X91KKE		
	90 AAC: RGS1A69X91KKE*		

X must be replaced with D for DC control 3-32 VDC, 4-32 VDC (for 600 VAC versions)




X must be replaced with A for AC control 20-275 VAC, 24-190 VDC

RGS1B.. models for Instant On (Random) switching are available on request

*690 VAC variants are CE marked only and do not include a varistor across the output

Solid state relays, 1-phase




Slimline - AC output

Types	RGS1A..MGE 50/90 AAC	RGS1A..KGU 30 AAC	RGS1A..DIN 10/12 AAC
Single-phase, chassis mounting with LED for control status indication, IP20 protection, 45-65 Hz operating frequency, ≥ 4000 VACrms isolation voltage, 100 kArms short circuit current rating, certified motor ratings.			
Dimensions HxWxD (mm)	90 x 17.8 x 63.6	90 x 17.8 x 50.6	106 x 17.8 x 65
Features	17.8 mm wide solid state relay with integrated varistor on output, AC or DC control range, box clamps for power connections (25 mm ² / AWG3) and pluggable spring for control, E-type layout	17.8 mm wide solid state relay with integrated varistor on output, AC or DC control range, box clamps for power and control connections, U-type layout	17.8 mm wide solid state relay mounted on DIN mountable module
Input specifications			
Control input range	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	3-32 VDC [RG..23D..] 4-32 VDC [RG..60D..] 20-275 VAC, 24-190 VDC [RG..A..]
Max. input current	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]
Output specifications			
Rated operational current AC-51 @ Ta=40°C	50 AAC [RG..50] 90 AAC [RG..92]	30 AAC	10 AAC [RG..20/25..DIN] 12 AAC [RG..50/90..DIN]
AC-53a @ Ta=40°C	10 AAC [RG..50] 18 AAC [RG..92]	8 AAC	5 AAC [RG..20/25..DIN] 5 AAC [RG..50/90..DIN]
Min. operational current	250 mA AC [RG..50] 500 mA AC [RG..92]	250 mA AC	150 mA AC [RG..20/25..DIN] 250 mA AC [RG..50..DIN] 400 mA AC [RG..90..DIN]
Non rep. surge current (t=10 ms)	600 A _p [RG..50] 1900 A _p [RG..92]	600 A _p	325 A _p [RG..20/25..DIN] 600 A _p [RG..50..DIN] 1150 A _p [RG..90..DIN]
Max. Off-state leak current	3 mA AC	3 mA AC	3 mA AC
I ² t for fusing (t=10 ms)	1800 A ² s [RG..50] 18000 A ² s [RG..92]	1800 A ² s	525 A ² s [RG..20/25..DIN] 1800 A ² s [RG..50..DIN] 6600 A ² s [RG..90..DIN]
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	24-240 VAC +10% [RG..23..] 42-600 VAC +10% [RG..60..]
Blocking voltage	1200 V _p	1200 V _p	800 V _p [RG..23..] 1200 V _p [RG..60..]
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cURus - CSA - EAC - VDE	CE - cURus - CSA - EAC - VDE	CE - cURus - CSA - EAC - VDE
References			
230 VAC, 800 V _p , E-type			10 AAC: RGS1A23X25KKEDIN 12 AAC: RGS1A23X50KKEDIN
600 VAC, 1200 V _p , E-type	50 AAC: RGS1A60X50MGE 90 AAC: RGS1A60X92MGE		10 AAC: RGS1A60X25KKEDIN 12 AAC: RGS1A60X50KKEDIN 12 AAC: RGS1A60D90KKEDIN
600 VAC, 1200 V _p , U-type		30 AAC: RGS1A60X30KGU	10 AAC: RGS1A60D20KGDIN

Solid state relays, 1-phase

Slimline - DC output

Slimline - AC output, Integrated monitoring

Types	RGSD1..KKE 15/25 ADC	RGSA1..KEM 25/50/90 AAC	RGSA1..GEM 90 AAC
Single-phase, chassis mounting industrial relays with LED for control status indication and IP20 protection, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating for AC switching versions.			
Dimensions HxWxD (mm)	90 x 17.8 x 50.6	90 x 17.8 x 82	90 x 17.8 x 82
Features	17.8 mm wide solid state relay with IGBT output, integrated free wheeling diode, DC control voltage, screw terminals with captivated clamp, E-type layout	17.8 mm wide solid state relay, integrated monitoring for SSR and load malfunction, integrated varistor, DC control and supply, transistor output for remote alarm signalling	17.8 mm wide solid state relay, integrated monitoring for SSR and load malfunction, integrated varistor, DC control and supply, transistor output for remote alarm signalling
Input specifications			
Control input range	4.5-32 VDC	4-32 VDC	4-32 VDC
Max. input current		0.5 mADC at 24 VDC	0.5 mADC at 24 VDC
Supply voltage		19.2 - 28.8 VDC	19.2 - 28.8 VDC
Max. supply current	13.7 mADC	40 mA	40 mA
Alarm specifications			
Output type		Transistor, NC, NO max. 35 VDC/100 mA	Transistor, NC, NO max. 35 VDC/100 mA
Alarm indication		Mains loss, load loss, SSR open and short cct, SSR internal error, supply out of range	Mains loss, load loss, SSR open and short cct, SSR internal error, supply out of range
Output specifications			
Rated operational current AC-51 @ $T_a=40^\circ\text{C}$		25 AAC [RGSA1..25] 50 AAC [RGSA1..50] 90 AAC [RGSA1..92]	90 AAC
DC Rated operational current	15 ADC [RGSD1..15.] 25 ADC [RGSD1..25.]		
Minimum operational current	20 mA	150 mAAC [RGSA1..25] 250 mAAC [RGSA1..50] 500 mAAC [RGSA1..92]	500 mAAC
Non rep. surge current (I_{tsm}) ($t=10$ ms)	200 ADC [10 μ s]	325 Ap [RGSA1..25] 600 Ap [RGSA1..50] 1900 Ap [RGSA1..92]	1900 Ap
Max. Off-state leak current	1.5 mADC	5 mAAC	5 mAAC
I^2t for fusing ($t=10$ ms)		525 A ² s [RGSA1..25] 1800 A ² s [RGSA1..50] 18000 A ² s [RGSA1..92]	18000 A ² s
Critical dV/dt (@ T_j init= 40°C)		1000 V/ μ s	1000 V/ μ s
General specifications			
Operational voltage range	24-1000 VDC [CE] 24-600 VDC [UL508]	42-265 VAC [RGSA1A23..] 150-660 VAC [RGSA1A60..]	150-660 VAC
Blocking voltage	1200 VDC	800 Vp [RGSA1A23..] 1200 Vp [RGSA1A60..]	1200 Vp
Power factor		≥ 0.9 at rated voltage	≥ 0.9 at rated voltage
Operating temperature	-40 $^\circ\text{C}$ to +80 $^\circ\text{C}$	-20 $^\circ\text{C}$ to +65 $^\circ\text{C}$	-20 $^\circ\text{C}$ to +65 $^\circ\text{C}$
Approvals/Marks	CE - cURus - CSA - EAC	CE - cURus - CSA - EAC	CE - cURus - CSA - EAC
References			
1000 VDC	15 ADC: RGSD1000D15KKE 25 ADC: RGSD1000D25KKE		
230 VAC, 800 Vp, 525 A ² s, Screw		25 AAC: RGSA1A23D25KEM	
600 VAC, 1200 Vp, 525 A ² s, Screw		25 AAC: RGSA1A60D25KEM	
600 VAC, 1200 Vp, 1800 A ² s, Screw		50 AAC: RGSA1A60D50KEM	
600 VAC, 1200 Vp, 18000 A ² s, Screw		90 AAC: RGSA1A60D92KEM	
600 VAC, 1200 Vp, 18000 A ² s, Box			90 AAC: RGSA1A60D92GEM

KK = screws for control terminals, screws for power terminals
 GK = box clamps for control terminals, screws for power terminals
 GG = box clamps for control terminals, box clamps for power terminals

Solid state relays, 1-phase

Slimline - AC output, integrated current measurement

Types	RGS1S..EP 30/90 AAC	RGS1S..UP 65 AAC
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Single-phase, chassis mounting industrial relays with LED for control status indication and IP20 protection, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating for AC switching versions.



Dimensions HxWxD (mm)	90 x 22.5 x 78	90 x 35.6 x 78
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Features	22.5 mm wide solid-state relay with thyristor output, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection.	35 mm wide solid-state relay with thyristor output, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection.
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Input specifications

Control input range	4-32 VDC	4-32 VDC
Max. input current	10 mA _{DC} at 24 VDC	10 mA _{DC} at 24 VDC
Supply voltage	24 VDC -15%, +20%	24 VDC -15%, +20%
Max. supply current	50 mA _{DC}	50 mA _{DC}

Alarm specifications

Output type	NC PNP open collector max. 35 VDC / 50 mA	NC PNP open collector max. 35 VDC / 50 mA
Alarm indication	Red LED (flash rate)	Red LED (flash rate)

Output specifications

Rated operational current AC-51 @ Ta=40°C	30 AAC [RGS1S..30] 90 AAC [RGS1S..92]	65 AAC
Minimum TEACH / operational current	1.2 AAC [RGS1S..30] 5 AAC [RGS1S..92]	5 AAC
Minimum partial load current	0.2 AAC [RGS1S..30] 0.83 AAC [RGS1S..92]	0.83 AAC
Detectable partial load failure	> 16.67% from current setpoint	> 16.67% from current setpoint
Non rep. surge current (I _{tsm}) (t=10 ms)	600 A _p [RGS1S..30] 1900 A _p [RGS1S..92]	1900 A _p
Max. Off-state leak current	3 mA _{AC}	3 mA _{AC}
I ² t for fusing (t=10 ms)	1800 A ² s [RGS1S..30] 18000 A ² s [RGS1S..92]	18000 A ² s
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs

General specifications

Operational voltage range	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 V _p	1200 V _p
Power factor	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage
Operating temperature	-25°C to +70°C	-25°C to +70°C
Approvals/Marks	CE - cURus - CSA - EAC	CE - cURus - CSA - EAC

References

600 VAC, 1800 A ² s, E-type	30 AAC: RGS1S60D30GKEP	
600 VAC, 18000 A ² s, E-type	90 AAC: RGS1S60D92GGEP	
600 VAC, 18000 A ² s, U-type		65 AAC: RGS1S60D61GGUP

Solid state relays, 1-phase

Slimline - Soft start switching

Slimline - Proportional controllers

Types	RGS1P..K.. 50 AAC	RGS1P..K.. 90 AAC	RGS1P..AA.. / V.. 50 AAC	RGS1P..AA.. / V.. 90 AAC
Single-phase, chassis mounting industrial relays with integrated overvoltage protection, LED for control and load status indication, IP20 protection, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating.				

Dimensions HxWxD (mm)	90 x 35.8 x 51	90 x 35.8 x 51	90 x 35.8 x 51	90 x 35.8 x 51
Features	DC control input solid state relay with soft starting feature for short wave infrared heaters	DC control input solid state relay with soft starting feature for short wave infrared heaters	Analogue input (current or voltage), selectable modes for output switching - phase angle, full cycle distributed firing, advanced full cycle and soft starting	Analogue input (current or voltage), selectable modes for output switching - phase angle, full cycle distributed firing, advanced full cycle and soft starting

Supply specifications

Supply voltage	24 VDC -15%, +20% 24 VAC -15%, +15%	24 VDC -15%, +20% 24 VAC -15%, +15%	24 VDC -15%, +20% [RG..V..ED] 24 VAC -15%, +15% [RG..V..ED] 90-250 VAC [RG..V..EA]	24 VDC -15%, +20% [RG..V..ED] 24 VAC -15%, +15% [RG..V..ED] 90-250 VAC [RG..V..EA]
Max. supply current	30 mA	30 mA	30 mA [RG..V..ED] 14 mA [RG..V..EA]	30 mA [RG..V..ED] 14 mA [RG..V..EA]

Control specifications

Control input range	19.2 - 28.8 VDC	19.2 - 28.8 VDC	4-20 mA [RG..AA..] 0-10 V, 0-5 V, 1-5 V, POT [RG..V..]	4-20 mA [RG..AA..] 0-10 V, 0-5 V, 1-5 V, POT [RG..V..]
Input impedance	100 k Ω	100 k Ω	500 Ω [RG..AA..] 100 k Ω [RG..V..]	500 Ω [RG..AA..] 100 k Ω [RG..V..]

Output specifications

Rated operational current AC-51 @ 40°C	50 AAC	90 AAC	50 AAC	90 AAC
Minimum operational current	250 mAAC	500 mAAC	250 mAAC	500 mAAC
Non rep. surge current (I _{tsm}) (t=10 ms)	600 A _p	1900 A _p	600 A _p	1900 A _p
I ² t for fusing (t=10 ms)	1800 A ² s	18000 A ² s	1800 A ² s	18000 A ² s
Max. Off-state leakage current	5 mAAC	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s

General specifications




Operational voltage range	85 - 265 VAC [RGS1P23..] 190 - 550 VAC [RGS1P48..] 410 - 660 VAC [RGS1P60..]	85 - 265 VAC [RGS1P23..] 190 - 550 VAC [RGS1P48..] 410 - 660 VAC [RGS1P60..]	85 - 265 VAC [RGS1P23..] 190 - 550 VAC [RGS1P48..] 410 - 660 VAC [RGS1P60..]	85 - 265 VAC [RGS1P23..] 190 - 550 VAC [RGS1P48..] 410 - 660 VAC [RGS1P60..]
Blocking voltage	800 V _p [RGS1P23..] 1200 V _p [RGS1P48..] 1200 V _p [RGS1P60..]	800 V _p [RGS1P23..] 1200 V _p [RGS1P48..] 1200 V _p [RGS1P60..]	800 V _p [RGS1P23..] 1200 V _p [RGS1P48..] 1200 V _p [RGS1P60..]	800 V _p [RGS1P23..] 1200 V _p [RGS1P48..] 1200 V _p [RGS1P60..]
Power factor	> 0.7	> 0.7	> 0.7	> 0.7
Terminals	Screw with captive clamp	Box clamp	Screw with captive clamp	Box clamp
Operating temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Approvals/Marks	CE - cURus - CSA - EAC	CE - cURus - CSA - EAC	CE - cURus - CSA - EAC	CE - cURus - CSA - EAC

References

External supply 24 VDC/AC				
Operational output 85 - 265 VAC	RGS1P23K50ED	RGS1P23K92ED		
Operational output 190 - 550 VAC	RGS1P48K50ED	RGS1P48K92ED		
Operational output 410 - 660 VAC	RGS1P60K50ED	RGS1P60K92ED		
Control input				
4-20 mA			RGS1PxxAA50E	RGS1PxxAA92E
0-10 VDC, 0-5 VDC, 1-5 VDC, POT				
External supply 24 VDC/AC			RGS1PxxV50ED	RGS1PxxV92ED
External supply 90-250 VAC			RGS1PxxV50EA	RGS1PxxV92EA

Solid state relays, 1-phase

Industrial housing - AC output

Types	RF1A 25 AAC	RS1A 10/25/40 AAC	RAM1A..G 25/50/100/125 AAC
Single-phase, chassis mounting, industrial relays with LED status indication and IP20 protection. AC operating frequency range 45-65 Hz. Rated isolation voltage ≥ 4000 Vrms.			
Dimensions HxWxD (mm)	36 x 21 x 24	58.2 x 44.8 x 28.8	58.2 x 44.8 x 28.8
Features	Zero Cross or Instant ON, Built-in transil, VDE, Glow wire acc. to IEC/EN 60335-1	Zero Cross, Ideal for Ohmic loads	Zero Cross, Built-in varistor, VDE, Glow wire acc. to IEC/EN 60335-1

Input specifications

Control input range	4.25 - 9 VDC [RF1A..L] 9 - 18 VDC [RF1A..M] 18 -28.8 VDC [RF1A..D]	3-32 VDC [RS1A23D] 4-32 VDC [RS1A....D] 18-36 VAC/DC [RS1A...LA] 80-130 VAC [RS1A..A1-] 200-260 VAC [RS1A..A2-] 360-440 VAC [RS1A..A4-]	3-32 VDC [RAM1A23D..] 4-32 VDC [RAM1A60D..] 20-280 VAC / 22-48 VDC [RAM1A..A.]
Max. input current	15 mA [RF1A..L] 12 mA [RF1A..M] 12.5 mA [RF1A..D]	12 mA [RS1A..D] 15 mA [RS1A..LA] 13 mA [RS1A...A1- /A2- /A4-]	12 mA [RAM1A..D.] 20 mA [RAM1A..A.]

Output specifications

		RS1A..10 / 25 / 40	RAM1A..25/50/51/100/125
Rated operational current			
AC 51 @ Ta=25°C	25 AAC	10 / 25 / 40 AAC	25 / 50 / 50 / 100 / 125 AAC
AC 53a @ Ta=25°C			5 / 15 / 15 / 20 / 30 AAC
Min. operational current	150 mAAC	150 / 150 / 250 mAAC	150 / 250 / 400 / 400 / 500 mAAC
Non rep. surge current (t=10 ms)	325 Ap	100 / 325 / 600 Ap	325 / 600 / 800 / 1150 / 1900 Ap
Off-state leakage current	< 3 mA	< 3 mA	< 3 mA
I ² t for fusing (t=10 ms)	525 A ² s	50 / 525 / 1800 A ² s	525 / 1800 / 3200 / 6600 / 18000 A ² s
Critical dV/dt	1000 V/μs	500 V/μs	1000 V/μs

General specifications

Operational voltage range	24 - 280 VAC	42-265 VAC [RS1A23..] 42-440 VAC [RS1A40..] 42-530 VAC [RS1A48..]	24-265 VAC [RAM1A23..] 42-660 VAC [RAM1A60..]
Blocking voltage	600Vp	650 Vp [RS1A23..] 850 Vp [RS1A40..] 1200 Vp [RS1A48..]	650 Vp [RAM1A23..] 1200 Vp [RAM1A60..]
Power factor	≥ 0.9	≥ 0.95	≥ 0.5
Operating temperature	-30°C to +80°C	-20°C to +70°C	-40°C to +80°C
Terminals	FASTONS	Screw type with clamp	Screw type with clamp
Approvals/Marks	CE - UR - CSA - VDE - EAC	CE - UR - CSA - EAC	CE - UR - CSA - CCC - VDE - EAC

References

	25 AAC	10 / 25 / 40 AAC	25 / 50 / 100 / 125 AAC
230 VAC	RF1A23L25 RF1A23M25 RF1A23D25	RS1A23X10 (X = D, LA only) RS1A23X25 RS1A23X40	RAM1A23DYYG RAM1A23AYYG
400 VAC		RS1A40X10 (X = D, LA only) RS1A40X25 RS1A40X40	
480 VAC		RS1A48X10 (X = D, LA only) RS1A48X25 (X = D, LA only) RS1A48X40 (X = D, LA only)	
600 VAC			RAM1A60DYYG RAM1A60AYYG


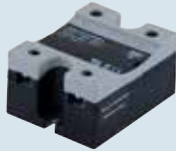

RF1B.., RAM1B.. Instant On switching versions available on request.

X = D for DC control = 3-32 VDC (RS1A23..), 4-32 VDC (RS1A40.., RS1A48..)
X = LA for AC control = 18-36 VAC/DC
X = A1- for AC control = 80-130 VAC (not available for RS1A40..)

X = A2- for AC control = 200-260 VAC
X = A4- for AC control = 360-440 VAC
YY = 25 for 25 AAC
YY = 50 for 50 AAC

YY = 51 for 50 AAC high I²t (RAM1A60..G only)
YY = 100 for 100 AAC (not available for RAM1A23..G)
YY = 125 for 125 AAC (not available for RAM1A23..G)

Solid state relays, 1-phase

	Industrial housing - AC output	Industrial housing - peak switching	Industrial housing - phase angle switching
Types	RM1A 25/50/75/100 AAC	RM1C 25/50/75/100 AAC	RM1E 25/50/100/125 AAC
Single-phase, chassis mounting, industrial relays with LED status indication and IP20 protection AC operating frequency range 45-65 Hz. Rated isolation voltage ≥ 4000 Vrms.			
Dimensions HxWxD (mm)	58.2 x 44.8 x 28.8	58.2 x 44.8 x 28.8	58.2 x 44.8 x 28.8
Features	Zero Cross or Instant ON, Built-in varistor	Ideal for transformers	Analogue phase-angle control

Input specifications

Control input range	3-32 VDC [RM1A23D.] 4-32 VDC [RM1A60D.] 20-280 VAC / 22-48 VDC [RM1A..A.] 4.25-36 VDC / 4.25-27 VAC [RM1A..M.]	4.25-32 VDC	4-20 mA [RM1E..AA..] 0-10 VDC [RM1E..V..]
Max. input current	12 mA [RM1A..D.] 20 mA [RM1A..A.] 18 mA [RM1A..M.]	18 mA	0.15 mA [RM1E..V..]
Supply voltage range			24 VDC [RM1E..V..]
Max. supply input current			20 mA [RM1E..V..]

Output specifications

	RM1A..25 / 50 / 75 / 100	RM1C..25 / 50 / 75 / 100	RM1E..25 / 50 / 100 / 125
Rated operational current			
AC 51 @ $T_a=25^\circ\text{C}$	25 / 50 / 75 / 100 AAC	25 / 50 / 75 / 100 AAC	25 / 50 / 100 / 125 AAC
AC 53a @ $T_a=25^\circ\text{C}$	5 / 15 / 20 / 30 AAC		5 / 15 / 20 / 30 AAC
AC 56a @ $T_a=25^\circ\text{C}$		10 / 20 / 25 / 30 AAC	
Min. operational current	150 / 250 / 400 / 500 mAAC	150 / 250 / 400 / 500 mAAC	150 / 250 / 400 / 500 mAAC
Non rep. surge current (t=10 ms)	325 / 600 / 1150 / 1900 A _p	325 / 600 / 1150 / 1900 A _p	325 / 600 / 1150 / 1900 A _p
Off-state leakage current	< 3 mA	< 3 mA	< 3 mA
I ² t for fusing (t=10 ms)	525 / 1800 / 6600 / 18000 A ² s	525 / 1800 / 6600 / 18000 A ² s	525 / 1800 / 6600 / 18000 A ² s

General specifications

Operational voltage range	24-265 VAC [RM1A23..] 42-440 VAC [RM1A40..] 42-530 VAC [RM1A48..] 42-660 VAC [RM1A60..]	100-440 VAC [RM1C40D.] 340-660 VAC [RM1C60D.]	90-280 VAC [RM1E23AA..] 90-265 VAC [RM1E23V..] 340-460 VAC [RM1E40AA..] 200-550 VAC [RM1E48AA/V..] 410-660 VAC [RM1E60AA/V..]
Blocking voltage	650 V _p [RM1A23..] 850 V _p [RM1A40..] 1200 V _p [RM1A48..] 1400 V _p [RM1A60..]	850 V _p [RM1C40D..] 1400 V _p [RM1C60D..]	650 V _p [RM1E23..] 850 V _p [RM1E40..] 1200 V _p [RM1E48..] 1400 V _p [RM1E60..]
Power factor	≥ 0.5	≥ 0.5	≥ 0.75
Operating temperature	-20°C to +70°C	-30°C to +80°C	-20°C to +70°C
Terminals	Screw type with clamp	Screw type with clamp	Screw type with clamp
Approvals/Marks	CE - UR - CSA - CCC - EAC	CE - UR - CSA - EAC	CE - UR - CSA - EAC

1-phase references:

	25 / 50 / 75 / 100 AAC	25 / 50 / 75 / 100 AAC	25 / 50 / 100 / 125 AAC
230 Vrms	RM1A23XY		RM1E23X25 (X = AA or V)
			RM1E23X50 (X = AA or V)
			RM1E23X100 (X = AA or V)
			RM1E23X125 (X = AA or V)
400 Vrms	RM1A40XY	RM1C40D25 RM1C40D50 RM1C40D75	RM1E40AA25
			RM1E40AA50
			RM1E40AA100
480 Vrms	RM1A48XY		RM1E48X25 (X = AA or V)
			RM1E48X50 (X = AA or V)
			RM1E48X100 (X = AA or V)
			RM1E48X125 (X = AA or V)
600 Vrms	RM1A60XY	RM1C60D25 RM1C60D50 RM1C60D100	RM1E60X25 (X = AA or V)
			RM1E60X50 (X = AA or V)
			RM1E60X100 (X = AA or V)

RM1B.. Instant On switching versions available on request

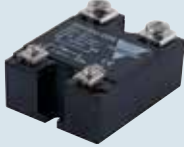


X = D for DC control = 3-32 VDC (RM1A23..), 4-32 VDC (RM1A40.., RM1A48.., RM1A60..)
 X = A for AC control = 20-280 VAC / 22-48 VDC

X = M for low AC control = 4.25-36 VDC / 4.25-27 VAC
 YY = 25 for 25 AAC
 YY = 50 for 50 AAC

YY = 75 for 75 AAC
 YY = 100 for 100 AAC

Solid state relays, 1-phase

Industrial housing - AC output

Types	RA 25/50/90/110 AAC	RA Sense 25/50/110 AAC	RA Low Noise 10/25 AAC
Single-phase relays, chassis mounting, variants with special functions. 2-phase industrial relays.			
Dimensions HxWxD (mm)	58.2 x 44.8 x 28.8	58.2 x 44.8 x 28.8	58.2 x 44.8 x 28.8
Features	General purpose	Detects supply and load failure	Complies with EN55022
Input specifications			
Control input range	3-32 VDC [RA..D..] 10-90 VAC/DC [RA..LA..] 90-280 VAC/DC [RA..HA..]	7-32 VDC	3-32 VDC
Max. input current	22 mA [RA..D..] 17 mA [RA..LA..] 6.5 mA [RA..HA..]	4 mA	32 mA
Control supply		20-32 VDC (40 mA)	
Alarm output	PNP NPN	VCC - 2 VDC (100 mA) 2 VDC (100 mA)	
Output specifications			
Rated operational current			
AC 51 @ Ta=25°C	25 / 50 / 90 / 110 AAC	25 / 50 / 110 AAC	10 / 25 AAC
AC 53a @ Ta=25°C	5/15/ 20/30 AAC		
Min. operational current	20 mA	200 mArms	2 Arms
Non rep. surge current (t=10 ms)	325 Ap [RA..25.] 600 Ap [RA..50.] 1150 Ap [RA..90.] 1900 Ap [RA..110.]	325 Ap [RA..25..S] 600 Ap [RA..50..S] 1150 Ap [RA..90..S] 1900 Ap [RA..110..S]	90 Ap, t=20 ms [RA..10..L] 200 Ap, t=20 ms [RA..25..L]
Off-state leakage current	< 3 mA	< 6 mArms	< 1 mArms
I ² t for fusing (t=10 ms)	<525 A ² s [RA..25.] <1800 A ² s [RA..50.] <6600 A ² s [RA..90.] <18000 A ² s [RA..110.]	525 A ² s [RA..25..S] 1800 A ² s [RA..50..S] 6600 A ² s [RA..90..S] 18000 A ² s [RA..110..S]	120 A ² s [RA..10..L] 200 A ² s [RA..25..L]
General specifications			
Operational voltage range	24-280 Vrms [RA24.06..] 42-480 Vrms [RA44.08..] 42-530 Vrms [RA48.12..] 24-690 Vrms [RA60.16..]	60-140 Vrms [RA12..S] 170-250 Vrms [RA23..S] 150-440 Vrms [RA40..S] 180-530 Vrms [RA48..S]	180-265 Vrms [RA24..L] 340-530 Vrms [RA40..L]
Blocking voltage	<650 Vp [RA24.06..] <850 Vp [RA44.08..] <1200 Vp [RA48.12..] <1600 Vp [RA60.16..]	650 Vp [RA12..S] 650 Vp [RA23..S] 1000 Vp [RA40..S] 1200 Vp [RA48..S]	650 Vp [RA24..L] 850 Vp [RA40..L]
Power factor	≥ 0.5	≥ 0.5	1
Operating temperature	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Terminals	Screw type with clamp	Screw / 5 way plug	Screw type with clamp
Approvals/Marks	CE - UR - CSA - EAC	CE - UR - CSA - EAC	CE - UR - CSA
References			
	25 / 50 / 90 / 110 AAC	25 / 50 / 110 AAC	10 / 25 AAC
120 Vrms		RA12..06..S	
230 Vrms	RA24..D..	RA23..06..S	RA2410-D06L
	RA24..LA..		RA2425-D06L
	RA24..HA..		
400 Vrms	RA44..D..	RA40..10..S	RA4010-D08L
	RA44..LA..		RA4025-D08L
	RA44..HA..		
480 Vrms	RA48..D..	RA48..12..S	
	RA48..LA..		
	RA48..HA..		
600 Vrms	RA60..D..		

Solid state relays, 1 / 3-phase

Industrial housing - DC output

Industrial housing - AC output, 3 poles

Types	RM1D 10/20/50/100 ADC	RZ3A 25/55/75 AAC
Single-phase and 3-phase industrial relays		

Dimensions HxWxD (mm)	58.2 x 44.8 x 29.5	74 x 103 x 41
Features	DC switching SSR, 4 kV isolation between input and output, fast response times	3-phase switching, integrated overvoltage protection

Input specifications

Control input range	4-32 VDC [RM1D060..] 4.5 - 32 VDC [RM1D200/500..]	4-32 VDC [RZ3A..D.] 24-275 VAC [RZ3A..A.]
Max. input current	16 mA	23 mA [RZ3A..D.] 15 mA [RZ3A..A.]
Switching frequency	up to 1000 Hz	

Output specifications

Rated operational current	DC1: 10 / 20 / 50 / 100 A, 60 VDC DC1: 20 / 50 A, 200 VDC DC1: 10 A, 500 VDC	AC51: 25 / 55 / 75 AAC AC53a: 5 / 15 / 20 AAC
Min. operational current	5 mADC	150 mAAC [RZ3..25] 250 mAAC [RZ3..55] 400 mAAC [RZ3..75]
Non rep. surge current (t=10 ms)		325 Ap [RZ3A..25..] 600 Ap [RZ3A..55..] 1150 Ap [RZ3A..75..]
Off-state leakage current	0.1 mADC	< 3 mA
I ² t for fusing (t=10 ms)		525 A ² s [RZ3A..25..] 1800 A ² s [RZ3A..55..] 6600 A ² s [RZ3A..75..]

General specifications

Operational voltage range	1-60 VDC [RM1D060..] 1-200 VDC [RM1D200..] 1-500 VDC [RM1D500..]	24-440 VAC [RZ3A40.] 42-530 VAC [RZ3A48.] 42-660 VAC [RZ3A60.] 42-750 VAC [RZ3A69.]
Blocking voltage	-	<800 Vp [RZ3A40..] <1200 Vp [RZ3A48..] <1600 Vp [RZ3A60..] <1600 Vp [RZ3A69.]
Operating temperature	-20°C to +80°C	-30°C to +80°C
Terminals	Screw type with clamp	Screw type with clamp
Approvals/Marks	CE - UR - CSA - EAC	CE - UR - CSA - EAC





References

DC output voltage:		25 / 55 / 75 AAC per pole
60 VDC	10 A: RM1D060D10 20 A: RM1D060D20 50 A: RM1D060D50 100 A: RM1D060D100	
200 VDC	20 A: RM1D200D20 50 A: RM1D200D50	
500 VDC	10 A: RM1D500D10	
AC output voltage:		
400 VAC		RZ3A40DYY* RZ3A40AYY*
480 VAC		RZ3A48DYY* RZ3A48AYY*
600 VAC		RZ3A60DYY* RZ3A60AYY*
690 VAC		RZ3A69D75** RZ3A69A75**

* Add suffix 'P' for additional integrated Over Temperature Protection, ** CE only
YY = 25 for 25 AAC, YY = 55 for 55 AAC, YY = 75 for 75 AAC

Solid state relays, 2-poles

Industrial housing - AC output

Types	RA2A 25/40 AAC	RA2A..C 25/40 AAC	RKD2..C RK2..C 50/75 AAC	RKD2..P RK2..P 50/75 AAC
2-pole industrial solid state relays.				
Dimensions HxWxD (mm)	57.8 x 44.5 x 31.7	57.8 x 44.5 x 34.8	53 x 44.5 x 33	58 x 44.5 x 33 (w/o plug) 58 x 44.5 x 44 (incl. plug)
Features	Two independent poles, RA2A..M for inductive loads	Two independent poles with integrated varistor on output	2-poles with independent control [RKD2] or common control [RK2], control connection via connector pins	2-poles with independent control [RKD2] or common control [RK2], control connection via provided spring plug

Input specifications

Control input range	4.5-32 VDC	4.5-32 VDC	4-32 VDC	4-32 VDC
Max. input current	2 x 10 mA	2x 10 mA	2 x 12 mA [RKD2..] 1 x 24 mA [RK2..]	2 x 12 mA [RKD2..] 1 x 24 mA [RK2..]

Output specifications

Rated operational current				
AC 51 @ Ta=25°C	25 / 40 AAC per pole	25 / 40 AAC per pole	50 AAC per pole [RK..50/51] 75 AAC per pole [RK..75]	50 AAC per pole [RK..50/51] 75 AAC per pole [RK..75]
AC 53a @ Ta=25°C	5 / 15 AAC per pole [RA2A..M]		12 AAC	12 AAC
Min. operational current	150 mArms [RA2A...25] 250 mArms [RA2A...40]	150 mArms [RA2A...25C] 250 mArms [RA2A...40C]	250 mArms [RK..50] 400 mArms [RK..51/75]	250 mArms [RK..50] 400 mArms [RK..51/75]
Non rep. surge current (t=10 ms)	325 Ap [RA2A..25] 600 Ap [RA2A..40]	325 Ap [RA2A...25C] 600 Ap [RA2A...40C]	500 Ap [RK..50] 775 Ap [RK..51] 1400 Ap [RK..75]	500 Ap [RK..50] 775 Ap [RK..51] 1400 Ap [RK..75]
Off-state leakage current	<3 mArms	<3 mArms	≤3 mArms	≤3 mArms
I ² t for fusing (t=10 ms)	525 A ² s [RA2A..25] 1800 A ² s [RA2A..40]	525 A ² s [RA2A..25C] 1800 A ² s [RA2A..40C]	1500 A ² s [RK..50] 3000 A ² s [RK..51] 9800 A ² s [RK..75]	1500 A ² s [RK..50] 3000 A ² s [RK..51] 9800 A ² s [RK..75]

General specifications

Operational voltage range	24-265 Vrms [RA2A23..] 42-530 Vrms [RA2A48..] 42-660 Vrms [RA2A60..]	24-265 Vrms [RA2A23..] 42-660 Vrms [RA2A60..]	24-265 Vrms [RK..23..] 42-660 Vrms [RK..60]	24-265 Vrms [RK..23] 42-660 Vrms [RK..60]
Blocking voltage	650 Vp [RA2A23..] 1200 Vp [RA2A48..] 1200 Vp [RA2A60..]	650 Vp [RA2A23..] 1200 Vp [RA2A60..]	600 Vp [RK..23..] 1200 Vp [RK..60..]	600 Vp [RK..23..] 1200 Vp [RK..60..]
Power factor	≥0.95 [RA2A...]/ ≥0.50 [RA2A...M]	≥0.95	≥0.5	≥0.5
Operating temperature	-20°C to +70°C	-20°C to +70°C	-40°C to +80°C	-40°C to +80°C
Terminals	FASTONS 6.35 mm	FASTONS 6.35 mm / 4 way plug	M4 screw / Control pins	M4 screw / Plug terminal
Approvals/Marks	CE - UR - CSA - EAC	CE - cURus - EAC	CE - UR - CSA - VDE - EAC	CE - UR - CSA - VDE - EAC





References

	25 / 40 AAC per pole	25 / 40 AAC per pole	50 / 75 AAC per pole	50 / 75 AAC per pole
230 Vrms	25 AAC: RA2A23D25	25 AAC: RA2A23D25C	50 AAC: RKD2A23D50C	50 AAC: RKD2A23D50P
	RA2A23D25M	40 AAC: RA2A23D40C	50 AAC: RKD2A23D51C	50 AAC: RKD2A23D51P
	40 AAC: RA2A23D40		75 AAC: RKD2A23D75C	75 AAC: RKD2A23D75P
480 Vrms	RA2A23D40M			
	25 AAC: RA2A48D25			
	RA2A48D25M			
600 Vrms	40 AAC: RA2A48D40			
	RA2A48D40M			
	25 AAC: RA2A60D25	25 AAC: RA2A60D25C	50 AAC: RKX2Y60D50C	50 AAC: RKX2Y60D50P
	RA2A60D25M	40 AAC: RA2A60D40C	50 AAC: RKX2A60D51C	50 AAC: RKX2A60D51P
	40 AAC: RA2A60D40		75 AAC: RKX2Y60D75C	75 AAC: RKX2Y60D75P
	RA2A60D40M			

X = must be replaced with 'D' for dual control, blank for common control
Y = must be replaced with 'A' for zero cross switching, 'B' for instant on switching

Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output

Types	RGC..15KKE 20 AAC	RGC..25KKE RGC..32KKE 25/30 AAC	RGC..32KGE 37 AAC	RGC..30KKE 30 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508, integrated varistor on output.				
Dimensions HxWxD (mm)	110 x 17.8 x 103.5	110 x 17.8 x 103.5	110 x 17.8 x 103.5	110 x 22.5 x 141
Features	17.8 mm wide solid state contactor, DC or AC control voltage, screw terminals for power and control, E-type layout	17.8 mm wide solid state contactor, DC or AC control voltage, screw terminals for power and control, E-type layout	17.8 mm wide solid state contactor, DC control voltage, box clamps for power terminals and screw terminals for control, E-type layout	22.5 mm wide solid state contactor, DC or AC control voltage, screw terminals for power and control, E-type layout

Input specifications

Control input range	3-32 VDC [RG.23D.] 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	3-32 VDC [RG.23D.] 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	4-32 VDC	3-32 VDC [RG.23D.] 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]
Max. input current	11 mADC [RG..D.] 30 mAAC [RG..A.]	11 mADC [RG..D.] 30 mAAC [RG..A.]	11 mADC	11 mADC [RG..D.] 30 mAAC [RG..A.]

Output specifications

Rated operational current AC 51 @ $T_a=40^\circ\text{C}$	20 AAC	25 AAC [RGC..25.] 30 AAC [RGC..32.]	37 AAC	30 AAC
AC 53a @ $T_a=40^\circ\text{C}$	5 AAC	5 AAC	5 AAC	8 AAC
Min. operational current	150 mA	250 mA [RGC..25.] 500 mA [RGC..32.]	500 mA	250 mA
Non rep. surge current (t=10 ms)	325 Ap	600 Ap [RGC..25.] 1900 Ap [RGC..32.]	1150 Ap	600 Ap
Off-state leakage current	3 mAAC	3 mAAC	3 mAAC	3 mAAC
I^2t for fusing (t=10 ms)	525 A ² s	1800 A ² s [RGC..25.] 18000 A ² s [RGC..32.]	18000 A ² s	1800 A ² s
Critical dV/dt (@ T_j init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s

General specifications





Operational voltage range	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]	42-600 VAC +10%	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]
Blocking voltage	800 Vp [RGC.23.] 1200 Vp [RGC.60.]	800 Vp [RGC.23.] 1200 Vp [RGC.60.]	1200 Vp	800 Vp [RGC.23.] 1200 Vp [RGC.60.]
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC - GL	CE - cULus - VDE* - EAC - GL*	CE - cULus - EAC	CE - cULus - VDE - EAC - GL

References

DC control voltage				
230 VAC, 800 Vp	20 AAC: RGC1A23D15KKE	25 AAC: RGC1A23D25KKE		30 AAC: RGC1A23D30KKE
600 VAC, 1200 Vp	20 AAC: RGC1A60D15KKE	25 AAC: RGC1A60D25KKE		30 AAC: RGC1A60D30KKE
600 VAC, 1200 Vp, 18000 A ² s		30 AAC: RGC1A60D32KKE	37 AAC: RGC1A60D32KGE	
AC/DC control voltage				
230 VAC, 800 Vp	20 AAC: RGC1A23A15KKE	25 AAC: RGC1A23A25KKE		30 AAC: RGC1A23A30KKE
600 VAC, 1200 Vp	20 AAC: RGC1A60A15KKE	25 AAC: RGC1A60A25KKE		30 AAC: RGC1A60A30KKE

Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output

Types	RGC..15MKE 20 AAC	RGC..25MKE RGC..32MKE 25/30 AAC	RGC..32MGE 37 AAC	RGC..30MKE 30 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508, integrated varistor on output.				
Dimensions HxWxD (mm)	110 x 17.8 x 114.5	110 x 17.8 x 114.5	110 x 17.8 x 114.5	110 x 22.5 x 152
Features	17.8 mm wide solid state contactor, DC or AC control voltage range, screw terminals with captivated clamp for power terminals and spring plug for control, E-type layout	17.8 mm wide solid state contactor, DC or AC control voltage range, screw terminals with captivated clamp for power terminals and spring plug for control, E-type layout	17.8 mm wide solid state contactor, DC control voltage range, box clamps for power terminals and spring plug for control, E-type layout	22.5 mm wide solid state contactor, DC or AC control voltage range, screw terminals with captivated clamp for power terminals and spring plug for control, E-type layout

Input specifications

Control input range	3-32 VDC [RG.23D.] / 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	3-32 VDC [RG.23D.] / 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	4-32 VDC	3-32 VDC [RG.23D.] / 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]
Max. input current	11 mADC [RG..D.] 30 mAAC [RG..A.]	11 mADC [RG..D.] 30 mAAC [RG..A.]	11 mADC	11 mADC [RG..D.] 30 mAAC [RG..A.]

Output specifications

Rated operational current				
AC 51 @ Ta=40°C	20 AAC	25 AAC [RGC..25.] 30 AAC [RGC..32.]	37 AAC	30 AAC
AC 53a @ Ta=40°C	5 AAC	5 AAC	5 AAC	8 AAC
Min. operational current	150 mA	250 mA [RGC..25.] 500 mA [RGC..32.]	500 mA	250 mA
Non rep. surge current (t=10 ms)	325 Ap	600 Ap [RGC..25.] 1900 Ap [RGC..32.]	1900 Ap	600 Ap
Off-state leakage current	3 mAAC	3 mAAC	3 mAAC	3 mAAC
I ² t for fusing (t=10 ms)	525 A ² s	1800 A ² s [RGC..25.] 18000 A ² s [RGC..32.]	18000 A ² s	1800 A ² s
Critical dV/dt (@ Tj init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs	1000 V/μs

General specifications




Operational voltage range	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]	42-600 VAC +10%	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]
Blocking voltage	800 Vp [RGC.23.] 1200 Vp [RGC.60.]	800 Vp [RGC.23.] 1200 Vp [RGC.60.]	1200 Vp	800 Vp [RGC.23.] 1200 Vp [RGC.60.]
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC - GL	CE - cULus - VDE* - EAC - GL*	CE - cULus - EAC	CE - cULus - VDE - EAC - GL

References

DC control voltage				
230 VAC, 800 Vp	20 AAC: RGC1A23D15MKE	25 AAC: RGC1A23D25MKE		30 AAC: RGC1A23D30MKE
600 VAC, 1200 Vp	20 AAC: RGC1A60D15MKE	25 AAC: RGC1A60D25MKE		30 AAC: RGC1A60D30MKE
600 VAC, 1200 Vp, 18000 A ² s		30 AAC: RGC1A60D32MKE	37 AAC: RGC1A60D32MGE	
AC/DC control voltage				
230 VAC, 800 Vp	20 AAC: RGC1A23A15MKE	25 AAC: RGC1A23A25MKE		30 AAC: RGC1A23A30MKE
600 VAC, 1200 Vp	20 AAC: RGC1A60A15MKE	25 AAC: RGC1A60A25MKE		30 AAC: RGC1A60A30MKE

Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output

Types	RGC..15KGU 20 AAC	RGC..25KGU 25 AAC	RGC..30KGU 30 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.			
Dimensions HxWxD (mm)	110 x 17.8 x 103.5	110 x 17.8 x 103.5	110 x 22.5 x 141
Features	17.8 mm wide solid state contactor, integrated varistor for overvoltage protection, DC or AC control voltage range, screw terminals with captivated clamp for connection of control terminals and box clamps for power terminals, U-type layout	17.8 mm wide solid state contactor, integrated varistor for overvoltage protection, DC or AC control voltage range, screw terminals with captivated clamp for connection of control terminals and box clamps for power terminals, U-type layout	22.5 mm wide solid state contactor, integrated varistor for overvoltage protection, DC or AC control voltage range, screw terminals with captivated clamp for connection of control terminals and box clamps for power terminals, U-type layout

Input specifications

Control input range	3-32 VDC [RG.23D.] 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	3-32 VDC [RG.23D.] 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]	3-32 VDC [RG.23D.] 4-32 VDC [RG.60D.] 20-275 VAC, 24-190 VDC [RG..A.]
Max. input current	11 mADC [RG..D.] 30 mAAC [RG..A.]	11 mADC [RG..D.] 30 mAAC [RG..A.]	11 mADC [RG..D.] 30 mAAC [RG..A.]

Output specifications

Rated operational current			
AC 51 @ $T_a=40^\circ\text{C}$	20 AAC	25 AAC	30 AAC
AC 53a @ $T_a=40^\circ\text{C}$	5 AAC	5 AAC	8 AAC
Min. operational current	150 mA	250 mA	250 mA
Non rep. surge current ($t=10$ ms)	325 AP	600 AP	600 AP
Off-state leakage current	3 mAAC	3 mAAC	3 mAAC
I^2t for fusing ($t=10$ ms)	525 A ² s	1800 A ² s	1800 A ² s
Critical dV/dt (@ T_j init= 40°C)	1000 V/ μs	1000 V/ μs	1000 V/ μs

General specifications





Operational voltage range	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]	24-240 VAC +10% [RG.23..] 42-600 VAC +10% [RG.60..]
Blocking voltage	800 V _P [RGC.23.] 1200 V _P [RGC.60.]	800 V _P [RGC.23.] 1200 V _P [RGC.60.]	800 V _P [RGC.23.] 1200 V _P [RGC.60.]
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC - GL	CE - cULus - VDE - EAC - GL	CE - cULus - VDE - EAC - GL

References

DC control voltage			
230 VAC, 800 V _P	20 AAC: RGC1A23D15KGU	25 AAC: RGC1A23D25KGU	30 AAC: RGC1A23D30KGU
600 VAC, 1200 V _P	20 AAC: RGC1A60D15KGU	25 AAC: RGC1A60D25KGU	30 AAC: RGC1A60D30KGU
AC/DC control voltage			
230 VAC, 800 V _P	20 AAC: RGC1A23A15KGU	25 AAC: RGC1A23A25KGU	30 AAC: RGC1A23A30KGU
600 VAC, 1200 V _P	20 AAC: RGC1A60A15KGU	25 AAC: RGC1A60A20KGU	30 AAC: RGC1A60A30KGU

Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output

Types	RGC..40/42KGE 40/43 AAC	RGC..40/42MGE 40/43 AAC	RGC..60/62KGE 60/65 AAC	RGC..62MGE 65 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.				
Dimensions HxWxD (mm)	110 x 35.6 x 141	110 x 35.6 x 152	110 x 69.1 x 141	110 x 69.1 x 152
Features	35 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control, box clamp for power terminals, E-type layout	35 mm wide solid state contactor, integrated varistor, DC or AC control voltage, spring plug for control, box clamp for power terminals, E-type layout	70 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control, box clamp for power terminals, E-type layout	70 mm wide solid state contactor, integrated varistor, DC or AC control voltage, spring plug for control, box clamp for power terminals, E-type layout

Input specifications

Control input range	3-32 VDC [RG..23D..] 4-32 VDC [RG..60D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	3-32 VDC [RG..23D..] 4-32 VDC [RG..60D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]
Max. input current	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]

Output specifications

Rated operational current AC 51 @ $T_a=40^\circ\text{C}$	40 AAC [RG..40] 43 AAC [RG..42]	40 AAC [RG..40] 43 AAC [RG..42]	60 AAC [RG..60] 65 AAC [RG..62]	65 AAC
AC 53a @ $T_a=40^\circ\text{C}$	13 AAC [RG..40] 16 AAC [RG..42]	13 AAC [RG..40] 16 AAC [RG..42]	14.8 AAC [RG..60] 20 AAC [RG..62]	20 AAC
Min. operational current	400 mA AC [RG..40] 500 mA AC [RG..42]	400 mA AC [RG..40] 500 mA AC [RG..42]	400 mA AC [RG..60] 500 mA AC [RG..62]	500 mA AC
Non rep. surge current (t=10 ms)	800 Ap [RG..40] 1900 Ap [RG..42]	800 Ap [RG..40] 1900 Ap [RG..42]	800 Ap [RG..60] 1900 Ap [RG..62]	1900 Ap
Off-state leakage current	3 mA AC	3 mA AC	3 mA AC	3 mA AC
I ² t for fusing (t=10 ms)	3200 A ² s [RG..40] 18000 A ² s [RG..42]	3200 A ² s [RG..40] 18000 A ² s [RG..42]	3200 A ² s [RG..60] 18000 A ² s [RG..62]	18000 A ² s
Critical dV/dt (@ T_j init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s

General specifications

Operational voltage range	24-240 VAC +10% [RG..23..] 42-600 VAC +10% [RG..60..]	42-600 VAC +10%	24-240 VAC +10% [RG..23..] 42-600 VAC +10% [RG..60..]	42-600 VAC +10%
Blocking voltage	800 V _P [RG..23..] 1200 V _P [RG..60..]	1200 V _P	800 V _P [RG..23..] 1200 V _P [RG..60..]	1200 V _P
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC



References

230 VAC, 800 V _P , 3200 A ² s	40 AAC: RGC1A23X40KGE	60 AAC: RGC1A23X60KGE		
230 VAC, 800 V _P , 18000 A ² s	43 AAC: RGC1A23X42KGE	65 AAC: RGC1A23X62KGE		
600 VAC, 1200 V _P , 3200 A ² s	40 AAC: RGC1A60X40KGE	40 AAC: RGC1A60X40MGE	60 AAC: RGC1A60X60KGE	
600 VAC, 1200 V _P , 18000 A ² s	43 AAC: RGC1A60X42KGE	43 AAC: RGC1A60X42MGE	65 AAC: RGC1A60X62KGE	65 AAC: RGC1A60X62MGE

X must be replaced with D for DC control 3-32 VDC, 4-32 VDC (for 600 VAC versions)
 X must be replaced with A for AC control 20-275 VAC, 24-190 VDC
 RGC1B.. models for Instant On (Random) switching are available on request
 *690 VAC variants are CE marked only and do not include a varistor across the output





Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output

Types	RGC..40/42KGU 40/43 AAC	RGC..60/62KGU 60/65 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating and motor ratings according to UL508 for AC output switching.		
Dimensions HxWxD (mm)	110 x 35.6 x 141	110 x 69.1 x 141
Features	35 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control, box clamp for power terminals, U-type layout	70 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control, box clamp for power terminals, U-type layout
Input specifications		
Control input range	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]
Max. input current	11 mADC [RG..D..] 30 mAAC [RG..A..]	11 mADC [RG..D..] 30 mAAC [RG..A..]
Output specifications		
Rated operational current		
AC-51 @ Ta=40°C	40 AAC [RGC..40] 43 AAC [RGC..42]	60 AAC [RGC..60] 65 AAC [RGC..62]
AC-53a @ Ta=40°C	13 AAC [RGC..40] 16 AAC [RGC..42]	14.8 AAC [RGC..60] 20 AAC [RGC..62]
Min. operational current	400 mAAC [RGC..40] 500 mAAC [RGC..42]	400 mAAC [RGC..60] 500 mAAC [RGC..62]
Non rep. surge current (t=10 ms)	800 Ap [RGC..40] 1900 Ap [RGC..42]	800 Ap [RGC..60] 1900 Ap [RGC..62]
Off-state leakage current	3 mAAC	3 mAAC
I ² t for fusing (t=10 ms)	3200 A ² s [RGC..40] 18000 A ² s [RGC..42]	3200 A ² s [RGC..60] 18000 A ² s [RGC..62]
Critical dV/dt (@ Tj init= 40°C)	1000 V/μs	1000 V/μs
General specifications		
Operational voltage range	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 Vp	1200 Vp
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC
References		
600 VAC, 1200 Vp, 3200 A ² s	40 AAC: RGCI A60 X40KGU	60 AAC: RGCI A60 X60KGU
600 VAC, 1200 Vp, 18000 A ² s	43 AAC: RGCI A60 X42KGU	65 AAC: RGCI A60 X62KGU

Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output, high blocking voltage

Types	RGH..15KKE 23 AAC	RGH..31KKE 30 AAC	RGH..41KGE RGH..41KGU 40 AAC	RGH..60KGE RGH..60KGU 60 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.				
Dimensions HxWxD (mm)	110 x 17.8 x 103.5	110 x 22.5 x 141	110 x 35.6 x 141	110 x 69.1 x 141
Features	17.8 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control and power terminals, E-type layout	22.5 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control and power terminals, E-type layout	35 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control and box clamps for power terminals, E-type or U-type layout	70 mm wide solid state contactor, integrated varistor, DC or AC control voltage, screw terminals for control and box clamps for power terminals, E-type or U-type layout

Input specifications

Control input range	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]
Max. input current	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]

Output specifications

Rated operational current AC 51 @ $T_a=40^\circ\text{C}$	23 AAC	30 AAC	40 AAC	60 AAC
AC 53a @ $T_a=40^\circ\text{C}$	5 AAC	10 AAC	13 AAC	18 AAC
Min. operational current	400 mA AC	400 mA AC	400 mA AC	400 mA AC
Non rep. surge current (t=10 ms)	1150 Ap	1150 Ap	1150 Ap	1150 Ap
Off-state leakage current	3 mA AC	3 mA AC	3 mA AC	3 mA AC
I^2t for fusing (t=10 ms)	6600 A ² s	6600 A ² s	6600 A ² s	6600 A ² s
Critical dV/dt (@ $T_j \text{ init}=40^\circ\text{C}$)	1000 V/ μs	1000 V/ μs	1000 V/ μs	1000 V/ μs

General specifications




Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10% [RG..60..] 42-690 VAC +10% [RG..69..]*	42-600 VAC +10% [RG..60..] 42-690 VAC +10% [RG..69..]*
Blocking voltage	1600 Vp	1600 Vp	1600 Vp	1600 Vp
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC

References

E-type				
600 VAC, 1600 Vp, DC control	23 AAC: RGH1A60D15KKE	30 AAC: RGH1A60D31KKE	40 AAC: RGH1A60D41KGE	60 AAC: RGH1A60D60KGE
600 VAC, 1600 Vp, AC control	23 AAC: RGH1A60A15KKE	30 AAC: RGH1A60A31KKE	40 AAC: RGH1A60A41KGE	60 AAC: RGH1A60A60KGE
690 VAC, 1600 Vp, DC control			40 AAC: RGH1A69D41KGE*	60 AAC: RGH1A69D60KGE*
690 VAC, 1600 Vp, AC control			40 AAC: RGH1A69A41KGE*	60 AAC: RGH1A69A60KGE*
U-type				
600 VAC, 1600 Vp, DC control			40 AAC: RGH1A60D41KGU	60 AAC: RGH1A60D60KGU
600 VAC, 1600 Vp, AC control			40 AAC: RGH1A60A41KGU	60 AAC: RGH1A60A60KGU

Solid state contactors, 1-phase

Slimline, DIN-rail mounting - AC output, high blocking voltage

Types	RGH..15MKE 23 AAC	RGH..31MKE 30 AAC	RGH..41MGE 40 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.			
Dimensions HxWxD (mm)	110 x 17.8 x 114.5	110 x 22.5 x 152	110 x 35.6 x 152
Features	17.8 mm wide solid state contactor, integrated varistor, DC or AC control voltage, spring plug for control and screw terminals for power, E-type layout	22.5 mm wide solid state contactor, integrated varistor, DC or AC control voltage, spring plug for control and screw terminals for power, E-type layout	35 mm wide solid state contactor, integrated varistor, DC or AC control voltage, spring plug for control and box clamps for power terminals, E-type layout

Input specifications

Control input range	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]	4-32 VDC [RG..D..] 20-275 VAC, 24-190 VDC [RG..A..]
Max. input current	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]	11 mA DC [RG..D..] 30 mA AC [RG..A..]

Output specifications

Rated operational current AC 51 @ $T_a=40^\circ\text{C}$	23 AAC	30 AAC	40 AAC
AC 53a @ $T_a=40^\circ\text{C}$	5 AAC	10 AAC	13 AAC
Min. operational current	400 mA AC	400 mA AC	400 mA AC
Non rep. surge current (t=10 ms)	1150 A _p	1150 A _p	1150 A _p
Off-state leakage current	3 mA AC	3 mA AC	3 mA AC
I ² t for fusing (t=10 ms)	6600 A ² s	6600 A ² s	6600 A ² s
Critical dV/dt (@ T _j init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s

General specifications





Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1600 V _p	1600 V _p	1600 V _p
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC

References

600 VAC, 1600 V _p , DC control	23 AAC: RGH1A60D15MKE	30 AAC: RGH1A60D31MKE	40 AAC: RGH1A60D41MGE
600 VAC, 1600 V _p , AC control		30 AAC: RGH1A60A31MKE	40 AAC: RGH1A60A41MGE

Solid state contactors, 1-phase

DIN-rail mounting - AC output with over temperature protection

Types	RG..30..P 30 AAC	RG..40/42..P 40/43 AAC	RG..60/62..P 60/65 AAC	RG..90/92..P 85 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.				
Dimensions HxWxD (mm)	110 x 22.5 x 168	110x 35.6 x 168	110 x 69.1 x 168	126 x 69.1 x 168 (with fan)
Features	Integrated over temperature protection against over heating, screw terminals with captivated clamp for connection of power terminals and box clamps for control terminals	Integrated over temperature protection against over heating, box clamps for connection of power and control terminals	Integrated over temperature protection against over heating, box clamps for connection of power and control terminals	Integrated over temperature protection against over heating, box clamps for connection of power and control terminals

Input specifications

Control input range	5-32 VDC [RG.D.] 20-275 VAC, 24-190 VDC [RG.A.]	5-32 VDC [RG.D.] 20-275 VAC, 24-190 VDC [RG.A.]	5-32 VDC [RG.D.] 20-275 VAC, 24-190 VDC [RG.A.]	5-32 VDC [RG.D.] 20-275 VAC, 24-190 VDC [RG.A.]
Max. input current	24 mA DC [RG..D.] 35 mA AC [RG..A.]	24 mA DC [RG..D.] 35 mA AC [RG..A.]	23 mA DC [RG..D.] 35 mA AC [RG..A.]	23 mA DC [RG..D.] 35 mA AC [RG..A.]

Supply voltage

Rated supply voltage	24 VDC -15%, +20%	24 VDC -15%, +20%	24 VDC -15%, +20%	24 VDC -15%, +20%
Max. current rating	50 mA DC	50 mA DC	50 mA DC	50 mA DC (fan rating 24 VDC/50 mA)

Over temperature alarm

Alarm output	PNP open collector normally closed, max. 24 VDC / 50 mA [RGC.D.P] Potential free normally closed, max. 24 VDC / 50 mA [RGC.A.P]	PNP open collector normally closed, max. 24 VDC / 50 mA [RGC.D.P] Potential free normally closed, max. 24 VDC / 50 mA [RGC.A.P]	PNP open collector normally closed, max. 24 VDC / 50 mA [RGC.D.P] Potential free normally closed, max. 24 VDC / 50 mA [RGC.A.P]	PNP open collector normally closed, max. 24 VDC / 50 mA [RGC.D.P] Potential free normally closed, max. 24 VDC / 50 mA [RGC.A.P]
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Output specifications

Rated operational current				
AC 51 @ Ta=40°C	30 AAC	40 AAC [RGC..40], 43 AAC [RGC..42]	60 AAC [RGC..60] 65 AAC [RGC..62]	85 AAC
AC 53a @ Ta=40°C	8 AAC	13 AAC [RGC..40], 16 AAC [RGC..42]	14.8 AAC [RGC..60] 20 AAC [RGC..62]	18 AAC [RGC..90] 20 AAC [RGC..92]
Min. operational current	250 mA	400 mA AC [RGC..40], 500 mA AC [RGC..42]	400 mA [RGC..60] 500 mA [RGC..62]	400 mA [RGC..90] 500 mA [RGC..92]
Non rep. surge current (t=10 ms)	600 Ap	800 Ap [RGC..40] 1900 Ap [RGC..42]	800 Ap [RGC..60] 1900 Ap [RGC..62]	1150 Ap [RGC..90] 1900 Ap [RGC..92]
Off-state leakage current	3 mA AC	3 mA AC	3 mA AC	3 mA AC
I ² t for fusing (t=10 ms)	1800 A ² s	3200 A ² s [RGC..40], 18000 A ² s [RGC..42]	3200 A ² s [RGC..60] 18000 A ² s [RGC..62]	6600 A ² s [RGC..90] 18000 A ² s [RGC..92]
Critical dV/dt off-state (@ Tj init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s

General specifications

Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 Vp	1200 Vp	1200 Vp	1200 Vp
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Approvals/Marks	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC	CE - cULus - VDE - EAC

References

DC control voltage				
600 VAC, 1200 Vp, U-type		40 AAC: RGC1A60D40GGUP	60 AAC: RGC1A60D60GGUP	85 AAC: RGC1A60D90GGUP
600 VAC, 1200 Vp, E-type	30 AAC: RGC1A60D30GKEP	43 AAC: RGC1A60D42GGEP	65 AAC: RGC1A60D62GGEP	85 AAC: RGC1A60D90GGEP
600 VAC, 1200 Vp, E-type, high I ² t				85 AAC: RGC1A60D92GGEP
AC/DC control voltage				
600 VAC, 1200 Vp, U-type		40 AAC: RGC1A60A40GGUP	60 AAC: RGC1A60A60GGUP	85 AAC: RGC1A60A90GGUP
600 VAC, 1200 Vp, E-type	30 AAC: RGC1A60A30GKEP	43 AAC: RGC1A60A42GGEP	65 AAC: RGC1A60A62GGEP	85 AAC: RGC1A60A90GGEP
600 VAC, 1200 Vp, E-type, high I ² t				85 AAC: RGC1A60A92GGEP

Solid state contactors, 1-phase

DIN-rail mounting - DC output

Types

RGC1D..15KKE
15 ADC

Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.



Dimensions HxWxD (mm)

110 x 17.8 x 141

Features

17.8 mm wide solid state contactor for DC switching with integrated free wheeling diode, DC control, screw terminals for power and control, E-type layout

Input specifications

Control input range

4.5-32 VDC

Max. input current

13.7 mADC

Output specifications

DC I @ 40°C

15 ADC

Min. operational current

20 mADC

Non rep. surge current
(I_{tsm}) (t=10 ms)

200 ADC (10us)

Off-state leakage current

1.5 mADC

General specifications

Operational voltage range

24-1000 VDC [CE]
24-600 VDC [UL508]

Blocking voltage

1200 V_P

Operating temperature

-40°C to +80°C

Approvals/Marks

CE - EAC - cULus

References

1000 VDC

15 ADC: RGC1D1000D15KKE

Solid state contactors, 1-phase

DIN-rail mounting - AC output, integrated system monitoring

Types	RGCTA..15/25/31KEM 20/25/30 AAC	RGCTA..30KEM 30 AAC	RGCTA..42GEM 43 AAC	RGCTA..62GEM 65 AAC
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Single-phase, semiconductor contactors with integrated monitoring, E-type configuration, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating.



Dimensions HxWxD (mm)	110 x 17.8 x 134	110 x 22.5 x 171.5	110 x 35.6 x 171.5	110 x 70 x 171.5
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Features	17.8 mm wide solid state contactor, integrated monitoring for SSR and load malfunction, integrated varistor, DC control and supply, transistor output for remote alarm signalling	22.5 mm wide solid state contactor, integrated monitoring for SSR and load malfunction, integrated varistor, DC control and supply, transistor output for remote alarm signalling	35 mm wide solid state contactor, integrated monitoring for SSR and load malfunction, integrated varistor, DC control and supply, transistor output for remote alarm signalling	70 mm wide solid state contactor, integrated monitoring for SSR and load malfunction, integrated varistor, DC control and supply, transistor output for remote alarm signalling
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Input specifications

Control input range	4-32 VDC	4-32 VDC	4-32 VDC	4-32 VDC
Max. input current	0.5 mADC at 24 VDC	0.5 mADC at 24 VDC	0.5 mADC at 24 VDC	0.5 mADC at 24 VDC

Supply voltage

Rated supply voltage	19.2-28.8 VDC	19.2-28.8 VDC	19.2-28.8 VDC	19.2-28.8 VDC
Max. current rating	40 mA	40 mA	40 mA	40 mA

Alarm specifications

Output type	Transistor, NC, NO max. 35 VDC/100 mA	Transistor, NC, NO max. 35 VDC/100 mA	Transistor, NC, NO max. 35 VDC/100 mA	Transistor, NC, NO max. 35 VDC/100 mA
Alarm Condition	Mains loss, load loss, SSR open and short cct, SSR internal error, supply out of range	Mains loss, load loss, SSR open and short cct, SSR internal error, supply out of range	Mains loss, load loss, SSR open and short cct, SSR internal error, supply out of range	Mains loss, load loss, SSR open and short cct, SSR internal error, supply out of range

Output specifications

Rated operational current AC 51 @ Ta=40°C	20 AAC [RGC..15] 25 AAC [RGC..25] 30 AAC [RGC..31]	30 AAC	43 AAC	65 AAC
Minimum operational current	150 mAAC [RGC..15] 250 mAAC [RGC..25] 400 mAAC [RGC..31]	250 mAAC	500 mAAC	500 mAAC
Non. rep. surge current I _{tsm} (t=10ms)	325 A _p [RGC..15] 600 A _p [RGC..25] 1150 A _p [RGC..31]	600 A _p	1900 A _p	1900 A _p
Max. off state leakage current	5 mAAC	5 mAAC	5 mAAC	5 mAAC
I ² t for fusing (t=10ms)	525 A ² s [RGC..15] 1800 A ² s [RGC..25] 6600 A ² s [RGC..31]	1800 A ² s	18000 A ² s	18000 A ² s
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs	1000 V/μs

General specifications




Operational voltage range	42-265 VAC [RGCTA23..] 150-660 VAC [RGCTA60..]	150-660 VAC	150-660 VAC	150-660 VAC
Blocking voltage	800 V _p [RGCTA23..] 1200 V _p [RGCTA60..]	1200 V _p	1200 V _p	1200 V _p
Power factor	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage
Operating temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
Approvals/Marks	CE - cULus - EAC	CE - cULus - EAC	CE - cULus - EAC	CE - cULus - EAC

References

230 VAC, 800 V _p , 525A ² s	20 AAC: RGCTA23D15KEM			
230 VAC, 800 V _p , 6600 A ² s	30 AAC: RGCTA23D31KEM			
600 VAC, 1200 V _p , 525 A ² s	20 AAC: RGCTA60D15KEM			
600 VAC, 1200 V _p , 1800 A ² s	25 AAC: RGCTA60D25KEM	30 AAC: RGCTA60D30KEM		
600 VAC, 1200 V _p , 6600 A ² s	30 AAC: RGCTA60D31KEM			
600 VAC, 1200 V _p , 18000 A ² s			43 AAC: RGCTA60D42GEM	65 AAC: RGCTA60D62GEM




Solid state contactors, 1-phase

DIN-rail mounting - AC output, integrated current measurement

Types	RGC1S..20/30/31GKEP 23/30 AAC	RGC1S..25GKEP 25 AAC	RGC1S..26GGEP 25 AAC
Single-phase, semiconductor contactors with integrated current measurement, E-type configuration, LED indication and IP20 protection, AC operating frequency 45-65 Hz, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating.			
Dimensions HxWxD (mm)	110 x 22.5 x 163	110 x 22.5 x 126	110 x 22.5 x 126
Features	22.5 mm wide solid state contactor, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection	22.5 mm wide solid state contactor, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection	22.5 mm wide solid state contactor, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection
Input specifications			
Control input range	4-32 VDC	4-32 VDC	4-32 VDC
Max. input current	10 mA _{DC} at 24 VDC	10 mA _{DC} at 24 VDC	10 mA _{DC} at 24 VDC
Supply voltage			
Rated supply voltage	24 VDC -15%, +20%	24 VDC -15%, +20%	24 VDC -15%, +20%
Max. current rating	50 mA _{DC}	50 mA _{DC}	50 mA _{DC}
Alarm specifications			
Output type	NC PNP open collector max. 35 VDC/50 mA	NC PNP open collector max. 35 VDC/50 mA	NC PNP open collector max. 35 VDC/50 mA
Alarm Indication	Red LED (flash rate)	Red LED (flash rate)	Red LED (flash rate)
Output specifications			
Rated operational current			
AC 51 @ T _a =40°C	23 AAC [RGC1S..20] 30 AAC [RGC1S..30] 30 AAC [RGC1S..31]	25 AAC	25 AAC
Minimum TEACH / operational current	1.2 AAC	1.2 AAC	1.2 AAC
Minimum partial load current	0.2 AAC	0.2 AAC	0.2 AAC
Detectable partial load failure	>16.67% from current setpoint	>16.67% from current setpoint	>16.67% from current setpoint
Non. rep. surge current I _{sm} (t=10ms)	325 A _p [RGC1S..20] 600 A _p [RGC1S..30] 1150 A _p [RGC1S..31]	600 A _p	1900 A _p
Max. off state leakage current	3 mA _{AC}	3 mA _{AC}	3 mA _{AC}
I ² t for fusing (t=10ms)	525 A ² s [RGC1S..20] 1800 A ² s [RGC1S..30] 6600 A ² s [RGC1S..31]	1800 A ² s	18000 A ² s
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 V _p	1200 V _p	1200 V _p
Power factor	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage
Operating temperature	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Approvals/Marks	CE - cULus - EAC	CE - cULus - EAC	CE - cULus - EAC
References			
600 VAC, 1200 V _p , 525A ² s	23 AAC: RGC1S60D20GKEP		
600 VAC, 1200 V _p , 1800A ² s	30 AAC: RGC1S60D30GKEP	25 AAC: RGC1S60D25GKEP	
600 VAC, 1200 V _p , 6600A ² s	30 AAC: RGC1S60D31GKEP		
600 VAC, 1200 V _p , 18000A ² s			25 AAC: RGC1S60D26GGEP




Solid state contactors, 1-phase

DIN-rail mounting - AC output, integrated current measurement

Types	RGC1S..41GG.P 43 AAC	RGC1S..61GG.P 65 AAC	RGC1S..90GGEP 85 AAC
Single-phase, semiconductor contactors with integrated heatsink, LED indication and IP20 protection, AC operating frequency 45-65 Hz, Rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating, motor ratings according to UL508.			
Dimensions HxWxD (mm)	110 x 35.6 x 163	110 x 69.1 x 163	126 x 69.1 x 163 (with fan)
Features	35 mm wide solid-state contactor, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection	70 mm wide solid-state contactor, integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection	70 mm wide solid-state contactor with integrated varistor, DC control, local or remote TEACH, detection of partial load failure (1/6), SSR and load malfunction, SSR overheat protection
Input specifications			
Control input range	4-32 VDC	4-32 VDC	4-32 VDC
Max. input current	10 mADC at 24 VDC	10 mADC at 24 VDC	10 mADC at 24 VDC
Supply voltage			
Supply voltage	24 VDC -15%, +20%	24 VDC -15%, +20%	24 VDC -15%, +20%
Max. current rating	50 mADC	50 mADC	50 mADC (fan rating 24 VDC / 50 mA)
Alarm specifications			
Output type	NC PNP open collector max. 35 VDC / 50 mA	NC PNP open collector max. 35 VDC / 50 mA	NC PNP open collector max. 35 VDC / 50 mA
Alarm Indication	Red LED (flash rate)	Red LED (flash rate)	Red LED (flash rate)
Output specifications			
Rated operational current			
AC 51 @ Ta=40°C	43 AAC	65 AAC	85 AAC
Minimum TEACH / operational current	1.2 AAC	5 AAC	5 AAC
Minimum partial load current	0.2 AAC	0.83 AAC	0.83 AAC
Detectable partial load failure	>16.67% from current setpoint	>16.67% from current setpoint	>16.67% from current setpoint
Non. rep. surge current I _{tsm} (t=10 ms)	1900 Ap	1900 Ap	1900 Ap
Max. off state leakage current	3 mAAC	3 mAAC	3 mAAC
I ² t for fusing (t=10 ms)	18000 A ² s	18000 A ² s	18000 A ² s
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 V _P	1200 V _P	1200 V _P
Power factor	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage	≥ 0.9 at rated voltage
Operating temperature	-25°C to +70°C	-25°C to +70°C	-25°C to +70°C
Approvals/Marks	CE - cULus - EAC	CE - cULus - EAC	CE - cULus - EAC
References			
600 VAC, 1200 V _P , E-type	43 AAC: RGC1S60D41GGEP	65 AAC: RGC1S60D61GGEP	85 AAC: RGC1S60D90GGEP
600 VAC, 1200 V _P , U-type	43 AAC: RGC1S60D41GGUP	65 AAC: RGC1S60D61GGUP	





Solid state contactors, 1-phase

DIN-rail mounting - Soft start switching

Types	RGC1P..K.. 30 AAC	RGC1P..K.. 43 AAC	RGC1P..K.. 63 AAC
Single-phase, solid state relay with integrated heatsink, with integrated overvoltage protection, LED for control and load status indication, IP20 protection, Rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating.			
Dimensions HxWxD (mm)	110 x 35.8 x 104	110 x 35.8 x 104	110 x 72 x 126
Features	DC control input solid state contactor with soft starting feature for short wave infrared heaters	DC control input solid state contactor with soft starting feature for short wave infrared heaters	DC control input solid state contactor with soft starting feature for short wave infrared heaters
Supply specifications			
Supply voltage	24 VDC -15%, +20% 24 VAC -15%, +15%	24 VDC -15%, +20% 24 VAC -15%, +15%	24 VDC -15%, +20% 24 VAC -15%, +15%
Max. supply current	30 mA	30 mA	30 mA
Control specifications			
Control input	19.2 - 28.8 VDC	19.2 - 28.8 VDC	19.2 - 28.8 VDC
Input impedance	100 k Ω	100 k Ω	100 k Ω
Output specifications			
Rated operational current AC-51 @ 40°C	30 AAC	43 AAC	63 AAC
Minimum operational current	250 mAAC	500 mAAC	500 mAAC
Non rep. surge current (I _{tsm}) (t=10 ms)	600 Ap	1900 Ap	1900 Ap
I ² t for fusing (t=10 ms)	1800 A ² s	18000 A ² s	18000 A ² s
Max. Off-state leakage current	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s
General specifications			
Operational voltage range	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..] 410 - 660 VAC [RGC1P60..]	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..] 410 - 660 VAC [RGC1P60..]	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..] 410 - 660 VAC [RGC1P60..]
Blocking voltage	800 V _P [RGC1P23..] 1200 V _P [RGC1P48..] 1200 V _P [RGC1P60..]	800 V _P [RGC1P23..] 1200 V _P [RGC1P48..] 1200 V _P [RGC1P60..]	800 V _P [RGC1P23..] 1200 V _P [RGC1P48..] 1200 V _P [RGC1P60..]
Power factor	> 0.7	> 0.7	> 0.7
Terminals	Screw with captive clamp	Box clamp	Box clamp
Operating temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Approvals/Marks	CE - UL - cUL - EAC	CE - UL - cUL - EAC	CE - UL - cUL - EAC
References			
External supply 24 VDC/AC			
Operational output 85 - 265 VAC	RGC1P23K30ED	RGC1P23K42ED	RGC1P23K62ED
Operational output 190 - 550 VAC	RGC1P48K30ED	RGC1P48K42ED	RGC1P48K62ED
Operational output 410 - 660 VAC	RGC1P60K30ED	RGC1P60K42ED	RGC1P60K62ED





Solid state contactors, 1-phase

DIN-rail mounting - Proportional controllers

Types	RGC1P..AA.. / V.. 12 AAC	RGC1P..AA.. / V.. 30 AAC	RGC1P..AA.. / V.. 43 AAC	RGC1P..AA.. / V.. 50 / 63 AAC
Single-phase, solid state relay with integrated heatsink, with integrated overvoltage protection, LED for control and load status indication, IP20 protection, rated isolation voltage ≥ 4000 Vrms, 100 kArms short circuit current rating.				
Dimensions HxWxD (mm)	106 x 35.8 x 65	110 x 35.8 x 104	110 x 35.8 x 104	110 x 72 x 126
Features	Analogue input (current or voltage), selectable modes for output switching - phase angle, full cycle distributed firing, advanced full cycle and soft starting	Analogue input (current or voltage), selectable modes for output switching - phase angle, full cycle distributed firing, advanced full cycle and soft starting	Analogue input (current or voltage), selectable modes for output switching - phase angle, full cycle distributed firing, advanced full cycle and soft starting	Analogue input (current or voltage), selectable modes for output switching - phase angle, full cycle distributed firing, advanced full cycle and soft starting
Supply specifications				
Supply voltage	24 VDC -15%, +20% [RG..V..ED] 24 VAC -15%, +15% [RG..V..ED] 90-250 VAC [RG..V..EA]	24 VDC -15%, +20% [RG..V..ED] 24 VAC -15%, +15% [RG..V..ED] 90-250 VAC [RG..V..EA]	24 VDC -15%, +20% [RG..V..ED] 24 VAC -15%, +15% [RG..V..ED] 90-250 VAC [RG..V..EA]	24 VDC -15%, +20% [RG..V..ED] 24 VAC -15%, +15% [RG..V..ED] 90-250 VAC [RG..V..EA]
Max. supply current	30 mA [RG..V..ED] 14 mA [RG..V..EA]	30 mA [RG..V..ED] 14 mA [RG..V..EA]	30 mA [RG..V..ED] 14 mA [RG..V..EA]	30 mA [RG..V..ED] 14 mA [RG..V..EA]
Control specifications				
Control input range	4-20 mA [RG..AA..] 0-10 V, 0-5 V, 1-5 V, POT [RG..V..]	4-20 mA [RG..AA..] 0-10 V, 0-5 V, 1-5 V, POT [RG..V..]	4-20 mA [RG..AA..] 0-10 V, 0-5 V, 1-5 V, POT [RG..V..]	4-20 mA [RG..AA..] 0-10 V, 0-5 V, 1-5 V, POT [RG..V..]
Input impedance	500 Ω [RG..AA..] 100 k Ω [RG..V..]	500 Ω [RG..AA..] 100 k Ω [RG..V..]	500 Ω [RG..AA..] 100 k Ω [RG..V..]	500 Ω [RG..AA..] 100 k Ω [RG..V..]
Output specifications				
Rated operational current AC-51 @ 40°C	15 AAC	30 AAC	43 AAC	50 AAC [RG..50] 63 AAC [RG..62]
Minimum operational current	250 mAAC	250 mAAC	500 mAAC	500 mAAC
Non rep. surge current (I _{tsm}) (t=10 ms)	600 AP	600 AP	1900 AP	800 AP [RG..50] 1900 AP [RG..62]
I ² t for fusing (t=10 ms)	1800 A ² s	1800 A ² s	18000 A ² s	3200 A ² s [RG..50] 18000 A ² s [RG..62]
Max. Off-state leakage current	5 mAAC	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s	1000 V/ μ s
General specifications				
Operational voltage range	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..]	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..] 410 - 660 VAC [RGC1P60..]	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..] 410 - 660 VAC [RGC1P60..]	85 - 265 VAC [RGC1P23..] 190 - 550 VAC [RGC1P48..] 410 - 660 VAC [RGC1P60..]
Blocking voltage	800 VP [RGC1P23..] 1200 VP [RGC1P48..]	800 VP [RGC1P23..] 1200 VP [RGC1P48..] 1200 VP [RGC1P60..]	800 VP [RGC1P23..] 1200 VP [RGC1P48..] 1200 VP [RGC1P60..]	800 VP [RGC1P23..] 1200 VP [RGC1P48..] 1200 VP [RGC1P60..]
Power factor	> 0.7	> 0.7	> 0.7	> 0.7
Terminals	Screw with captive clamp	Screw with captive clamp	Box clamp	Box clamp
Operating temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Approvals/Marks	CE - UL - cUL - EAC	CE - UL - cUL - EAC	CE - UL - cUL - EAC	CE - UL - cUL - EAC
References				
Control input				
4-20 mA	RGC1PyyAA12E	RGC1PxxAA30E	RGC1PxxAA42E	50 AAC: RGC1PyyAA50E 63 AAC: RGC1PxxAA62E
0-10 VDC, 0-5 VDC, 1-5 VDC, POT				
External supply 24 VDC/AC	RGC1PyyV12ED	RGC1PxxV30ED	RGC1PxxV42ED	50 AAC: RGC1PyyV50ED 63 AAC: RGC1PxxV62ED
External supply 90-250 VAC	RGC1PyyV12EA	RGC1PxxV30EA	RGC1PxxV42EA	63 AAC: RGC1PxxV62EA

xx = 23 for operational voltage range 85 - 265 VAC
48 for operational voltage range 190 - 550 VAC
60 for operational voltage range 410 - 660 VAC
yy = 23 for operational voltage range 85 - 265 VAC
48 for operational voltage range 190 - 550 VAC

Solid state relays with communication interface

	NRG controller Modbus RTU	NRG controller PROFINET	NRG controller EtherNet/IP™	NRG BUS cables
Types	NRGC	NRGC-PN	NRGC-EIP	RCRGN..
<p>Solid state solutions with real-time monitoring. The NRG controller and NRG BUS cables are required for the operation of the NRG solid state relays.</p>    				
Dimensions HxWxD (mm)	90 x 38.5 x 64 (without plugs) 107 x 38.5 x 64 (with plugs)	90 x 38.5 x 64 (without plugs) 107 x 38.5 x 64 (with plug)	90 x 38.5 x 64 (without plugs) 107 x 38.5 x 64 (with plug)	
	<p>Controller of the NRG BUS chain with Modbus RTU over RS485 interface. The NRGC is the master of the BUS chain when configuration is required for the NRG SSRs. It acts as a gateway when the PLC needs to access the NRG SSRs. Each NRGC can handle a maximum of 48 RG..D..N (NRG SSRs with external control) or 32 RG..CM..N (NRGS SSRs with control via bus)</p>	<p>Controller of the NRG BUS chain with PROFINET interface. The NRGC-PN auto addresses the NRG solid state relays on startup. Each NRGC-PN can handle a maximum of 32 NRG solid state relays</p>	<p>Controller of the NRG BUS chain with EtherNet/IP interface. The NRGC-EIP auto addresses the NRG solid state relays on startup. Each NRGC-EIP can handle a maximum of 32 NRG solid state relays</p>	<p>Terminated proprietary cables for the NRG internal BUS connecting respective RG..N solid state relays to the NRG controller. The BUS terminator terminates the internal BUS</p>
Supply specifications				
Supply voltage	19.2 - 32 VDC	19.2 - 32 VDC	19.2 - 32 VDC	
Power consumption	<12 W	<12 W	<12 W	
Auxiliary output specifications				
Relay output	EMR, 3 pins (1 Form C)			
Relay output function	Configurable as an auxiliary output or an alarm output. Default is set as an alarm output (operates in case of NRG related alarms)			
Relay output ratings	2 A, 250 VAC / 30 VDC			
Alarm specifications				
Alarm output	Red LED, Relay output if set to operate as an alarm output, status register of the NRGC	Red LED, Diagnostics messages via the PROFINET Diagnostic System	Red LED, Diagnostics messages via EtherNet/IP implicit messages	
General specifications				
Communication protocol	Modbus RTU, 2-wire half duplex	PROFINET	EtherNet/IP	
Communication parameters	Baudrate: 115200 bits/s (selectable 9600, 19200, 38400, 57600)	GSDML file	EDS file	
Physical interface	2x RJ45 plugs	2x RJ45 plugs ports (X1, X2) 100 Mbit, full duplex	2x RJ45 plugs ports (X1, X2) 100 Mbit, full duplex	
Approvals/Marks	CE - cULus - EAC	CE - cULus - EAC - PI certified	CE - cULus - EAC - ODVA conformant	
References				
NRG controller	NRGC	NRGC-PN	NRGC-EIP	
NRG BUS cables				10 cm: RCRGN-010-2 75 cm: RCRGN-075-2 150 cm: RCRGN-150-2 350 cm: RCRGN-350-2 500 cm: RCRGN-500-2
NRG internal BUS termination				RGN-TERMRES*

* 1x RGN-TERMRES is provided with each NRG Controller

Solid state relays with communication interface, 1-phase

NRG Solid state relays

Types	RGS..N 50/90 AAC	RGC..N 25/30/37 AAC	RGC..N 43/65 AAC
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Switching components within the NRG system; Single-phase, AC operating frequency 45-65 Hz, rated isolation ≥ 4000 Vrms, IP20 protection, 100 kArms short circuit current rating according to UL508, integrated varistor on output.



Dimensions HxWxD (mm)	90 x 17.8 x 82	110 x 17.8 x 134	110 x 35 x 172 [RGC..42..] 110 x 70 x 172 [RGC..62..]
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Features Solid state relays with integrated monitoring and a communication interface to provide real time data through an internal BUS: Current, Voltage, Frequency, Power, Energy consumption, SSR running hours and Load running hours. Interface to the PLC is done through the **NRGC**. **RG..D..N** versions are switched via an external voltage. A max. of 48 **RG..D..Ns** can be connected to 1x **NRGC**. **RG..CM..N** versions can be switched via the BUS as default or through an external voltage. **RG..CM..N** allows selection of switching mode in ON/OFF, Full cycle, Advanced full cycle or Burst. A max. of 32 **RG..CM..Ns** can be connected to 1x **NRGC**.

Control specifications

Control input range	4-32 VDC	4-32 VDC	4-32 VDC
Max. input current	12.5 mA	12.5 mA	12.5 mA

Supply specifications

Supply voltage Provided through internal BUS using cables RCRGN...

Alarm specifications

Alarm output Red LED on the **RG..N**, alarm presence is identified through the status register of the solid state relay. Alarms that can be detected include: load deviation, system failure (mains loss, load loss, SSR open circuit), SSR short circuit, current out of range, voltage out of range, frequency out of range, over-temperature protection, communication and internal errors.

Output specifications

Rated operational current			
AC 51 @ Ta=40°C	50 AAC [RGS..50..] 90 AAC [RGS..92..]	25 AAC [RGC..25KEN] 30 AAC [RGC..32KEN] 37 AAC [RGC..32GEN]	43 AAC [RGC..42..] 65 AAC [RGC..62..]
Min. operational current	250 mAAC [RGS..50..] 500 mAAC [RGS..92..]	250 mAAC [RGC..25..] 500 mAAC [RGC..32..]	500 mAAC
Non-rep. surge current (t=10 ms)	600 Ap [RGS..50..] 1900 Ap [RGS..92..]	600 Ap [RGC..25..] 1900 Ap [RGC..32..]	1900 Ap
Off-state leakage current	< 5 mAAC	< 5 mAAC	< 5 mAAC
I ² t for fusing (t=10 ms)	1800 A ² s [RGS..50..] 18000 A ² s [RGS..92..]	1800 A ² s [RGC..25..] 18000 A ² s [RGC..32..]	18000 A ² s
Critical dV/dt off-state	1000 V/μs	1000 V/μs	1000 V/μs

General specifications

Operational voltage range	42 - 600 VAC +10%	42 - 600 VAC +10%	42 - 600 VAC +10%
Blocking voltage	1200 Vr	1200 Vr	1200 Vr
Power factor	≥ 0.9	≥ 0.9	≥ 0.9
Operating temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
Output terminals	Screw [RG..KEN] Box clamp [RG..GEN]	Screw [RG..KEN] Box clamp [RG..GEN]	Box clamp
Approvals/Marks	CE - UR - CSA - EAC	CE - cULus - EAC	CE - cULus - EAC

References

600 VAC, 1200 Vr, Screw	50 AAC: RGS1A60X50KEN	25 AAC: RGC1A60X25KEN	
	90 AAC: RGS1A60X92KEN	30 AAC: RGC1A60X32KEN	
600 VAC, 1200 Vr, Box clamps	90 AAC: RGS1A60X92GEN	37 AAC: RGC1A60X32GEN	43 AAC: RGC1A60X42GEN 65 AAC: RGC1A60X62GEN

X = 'D' for versions with external control only. Compatible with NRGC only
X = 'CM' for versions that can be switched via the communication interface or optionally through external control.
Compatible with NRGC, NRGC-PN, NRGC-EIP

Solid state contactors, 45 mm, 3-phase

DIN-rail mounting - AC output, 3 poles

Types

RGCM3A..15..
15 AAC / 2.2 kW

Semiconductor contactors with integrated heatsink.
AC operating frequency range
45-65 Hz.
Rated isolation voltage
≥4000 Vrms.



Dimensions HxWxD (mm)

105 x 45 x 105

Features

45 mm solid state contactor, enclosed heatsink, integrated varistors for over-voltage protection, 5 kArms SCCR, screw with clamp for power connection

Control specifications

Control input range

5-32 VDC [RG..D.]
20-275 VAC, 24-190 VDC [RG..A.]

Input current @
max. control voltage

31.5 mADC [RG..D.]
19 mAAC [RG..A.]

Output specifications

Rated operational current
AC-51 @ Ta=40°C

15.5 AAC

AC-53a @ Ta=40°C

5.8 AAC

Motor rating

2.2 kW @ 400 VAC
3 HP @ 600 VAC

Minimum operational current

250 mAAC

Non. rep. surge current
I_{tsm} (t=10 ms)

600 AP

I²t for fusing (t=10 ms)

1800 A²s

Off-state leakage current

3 mAAC

Critical dV/dt (@ T_j init=40°C)

1000 V/μs

General specifications

Operational voltage range

42-600 VAC +10%

Blocking voltage

1200 V_P

Power factor

≥ 0.5 at rated voltage

Operating temperature

-40°C to +70°C

Approvals/Marks

CE - cULus -EAC

References

DC control voltage





RGCM3A60D15GKE

AC control voltage

RGCM3A60A15GKE

Solid state contactors, 3-phase

DIN-rail mounting - AC output, 2 + 1 poles

Types	RGC2A..10.. 10 AAC	RGC2A..25.. 27 AAC	RGC2A..40.. 40 AAC	RGC2A..75.. 75 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency range 45-65 Hz. Rated isolation voltage 4000 Vrms.				
Dimensions HxWxD (mm)	106 x 54 x 65	110 x 54 x 103	110 x 72 x 126	141 x 72 x 141 (with fan)
Features	54 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, screw with clamp for power connection	54 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, screw with clamp for power connection	72 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, box clamp for power connection	72 mm solid state contactor, integrated overheat protection with EMR alarm output, 100 kArms SCCR, box clamp for power connection
Input specifications				
Control input range	5-32 VDC [RGC..D.] 20-275 VAC, 24-190 VDC [RGC..A.]	5-32 VDC [RGC..D.] 20-275 VAC, 24-190 VDC [RGC..A.]	5-32 VDC [RGC..D.] 20-275 VAC, 24-190 VDC [RGC..A.]	5-32 VDC [RG..D..DF] 5-32 VDC [RG..D..AF] 20-275 VAC [RG..A..AF]
Input current @ max. control voltage	31.5 mADC [RG..D.] 19 mAAC [RG..A.]	31.5 mADC [RG..D.] 19 mAAC [RG..A.]	31.5 mADC [RG..D.] 19 mAAC [RG..A.]	12.5 mADC [RG..D..DF] 5.5 mADC [RG..D..AF] 4.3 mAAC [RG..A..AF]
External supply voltage				24 VDC [RG..D..DF] 90-250 VAC [RG..D..AF] 90-250 VAC [RG..A..AF]
Max. supply current				150 mADC [RG..D..DF] 80 mADC [RG..D..AF] 80 mAAC [RG..A..AF]
Alarm specifications				
Alarm output				EMR: 2 A 230 VAC / 30 VDC
Alarm condition				Over Temperature
Output specifications				
Rated operational current AC-51 @ Ta=40°C	10 AAC	27 AAC	40 AAC	75 AAC
AC-53a @ Ta=40°C	5 AAC	11.5 AAC	16.5 AAC	28 AAC
Motor rating	1.5 kW @ 400 VAC 3 HP @ 600 VAC VAC	5.5 kW @ 400 VAC 10 HP @ 600 VAC	7.5 kW @ 400 VAC 15 HP @ 600 VAC	11 kW @ 400 VAC 25 HP @ 600 VAC
Minimum operational current	250 mAAC	250 mAAC	400 mAAC	500 mAAC
Non. rep. surge current Iism (t=10 ms)	600 Ap	600 Ap	1150 Ap	1750 Ap
I ² t for fusing (t=10 ms)	1800 A ² s	1800 A ² s	6600 A ² s	15000 A ² s
General specifications				
Operational voltage range	42-600 VAC +10%	42-220 VAC +10% [RG..22.] 42-600 VAC +10% [RG..60.]	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 Vp	800 Vp [RG..22.] 1200 Vp [RG..60.]	1200 Vp	1200 Vp
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +70°C [RG..DF] -40°C to +60°C [RG...AF]
Approvals/Marks	CE - cULus - EAC - VDE - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC
References				
DC control voltage				
220 VAC, 800 Vp		RGC2A22D25KKE		
600 VAC, 1200 Vp	RGC2A60D10KKE	RGC2A60D25KKE	RGC2A60D40KGE	
AC/DC control voltage				
220 VAC, 800 Vp		RGC2A22A25KKE		
600 VAC, 1200 Vp	RGC2A60A10KKE	RGC2A60A25KKE	RGC2A60A40KGE	
DC control voltage, DC external supply				RGC2A60D75GGEDF
DC control voltage, AC external supply				RGC2A60D75GGEAF
AC control voltage, AC external supply				RGC2A60A75GGEAF

Solid state contactors, 3-phase

DIN-rail mounting - AC output with monitoring, 2 + 1 poles

Types	RGC2A..25..M 27 AAC	RGC2A..40..M 40 AAC	RGC2A..75..FM 75 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency 45-65 Hz. Rated isolation voltage output to heatsink of 4000 Vrms, 100 kArms Short Circuit Current Rating.			
Dimensions HxWxD (mm)	110 x 54 x 118	110 x 72 x 141	141 x 72 x 141 (with fan)
Features	54 mm solid state contactor, EMR alarm output and electronic auxiliary output, screw with clamp for power connection	72 mm solid state contactor, EMR alarm output and electronic auxiliary output, box clamp for power connection	72 mm solid state contactor, EMR alarm output and electronic auxiliary output, box clamp for power connection

Input specifications

Control input range	5-32 VDC [RG..D..DM] 5-32 VDC [RG..D..AM] 20-275 VAC [RG..A..AM]	5-32 VDC [RG..D..DM] 5-32 VDC [RG..D..AM] 20-275 VAC [RG..A..AM]	5-32 VDC [RG..D..DFM] 5-32 VDC [RG..D..AFM] 20-275 VAC [RG..A..AFM]
Control current @ max. control voltage	12.5 mADC [RG..D..DM] 5.5 mADC [RG..D..AM] 4.3 mAAC [RG..A..AM]	12.5 mADC [RG..D..DM] 5.5 mADC [RG..D..AM] 4.3 mAAC [RG..A..AM]	12.5 mADC [RG..D..DFM] 5.5 mADC [RG..D..AFM] 4.3 mAAC [RG..A..AFM]
External supply voltage	24 VDC [RG..D..DM] 90-250 VAC [RG..D..AM] 90-250 VAC [RG..A..AM]	24 VDC [RG..D..DM] 90-250 VAC [RG..D..AM] 90-250 VAC [RG..A..AM]	24 VDC [RG..D..DFM] 90-250 VAC [RG..D..AFM] 90-250 VAC [RG..A..AFM]
Max. supply current	60 mADC [RG..D..DM] 60 mAAC [RG..D..AM] 60 mAAC [RG..A..AM]	60 mADC [RG..D..DM] 60 mAAC [RG..D..AM] 60 mAAC [RG..A..AM]	150 mADC [RG..D..DFM] 80 mAAC [RG..D..AFM] 80 mAAC [RG..A..AFM]

Alarm specifications

Alarm output	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC
Alarm condition	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature

Output specifications

Rated operational current AC-51 @ Ta=40°C	27 AAC	40 AAC	75 AAC
Minimum operational current	250 mAAC	400 mAAC	500 mAAC
Non. rep. surge current I _{tsm} (t=10 ms)	600 Ap	1150 Ap	1750 Ap
I ² t for fusing (t=10 ms)	1800 A ² s	6600 A ² s	15000 A ² s
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC

General specifications




Operational voltage range	90-600 VAC +10%	90-600 VAC +10%	90-600 VAC +10%
Blocking voltage	1200 Vp	1200 Vp	1200 Vp
Operating temperature	-40°C to +80°C [RG...DM] -40°C to +60°C [RG...AM]	-40°C to +80°C [RG...DM] -40°C to +60°C [RG...AM]	-40°C to +70°C [RG...DFM] -40°C to +60°C [RG...AFM]
Approvals/Marks	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC

References




600 VAC, 1200 Vp			
DC control voltage, DC external supply	RGC2A60D25GKEDM	RGC2A60D40GGEDM	RGC2A60D75GGEDFM
DC control voltage, AC external supply	RGC2A60D25GKEAM	RGC2A60D40GGEAM	RGC2A60D75GGEAFM
AC control voltage, AC external supply	RGC2A60A25GKEAM	RGC2A60A40GGEAM	RGC2A60A75GGEAFM

Solid state contactors, 3-phase

DIN-rail mounting - AC output, 3 poles

Types	RGC3A..10.. 10 AAC	RGC3A..20.. 20 AAC	RGC3A..25.. / 30.. 28/30 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency 45-65 Hz. Rated isolation voltage output to heatsink of 4000 Vrms.			
Dimensions HxWxD (mm)	110 x 54 x 63.5	110 x 54 x 103	110 x 72 x 126
Features	54 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, screw with clamp for power connection	54 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, screw with clamp for power connection	72 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, screw with clamp or box clamp for power connection
Input specifications			
Control input range	5-32 VDC [RGC..D.] 20-275 VAC, 24-190 VDC [RGC..A.]	5-32 VDC [RGC..D.] 20-275 VAC, 24-190 VDC [RGC..A.]	5-32 VDC [RGC..D.] 20-275 VAC, 24-190 VDC [RGC..A.]
Input current @ max. control voltage	31.5 mADC [RG..D.] 19 mAAC [RG..A.]	31.5 mADC [RG..D.] 19 mAAC [RG..A.]	31.5 mADC [RG..D.] 19 mAAC [RG..A.]
Output specifications			
Rated operational current AC-51 @ Ta=40°C	10 AAC	20 AAC	28 AAC [RGC3..25] 30 AAC [RGC3..30]
AC-53a @ Ta=40°C	5 AAC	10 AAC	11 AAC [RGC3..25] 14 AAC [RGC3..30]
Motor rating	1.5 kW @ 400 VAC 3 HP @ 600 VAC	4 kW @ 400 VAC 10 HP @ 600 VAC	4 kW @ 400 VAC [RGC3..25] 5.5 kW @ 400 VAC [RGC3..30] 10 HP @ 600 VAC [RGC3..25] 15 HP @ 600 VAC [RGC3..30]
Minimum operational current	250 mAAC	250 mAAC	250 mAAC [RGC3..25] 400 mAAC [RGC3..30]
Non. rep. surge current I _{tsm} (t=10 ms)	600 Ap	600 Ap	600 Ap [RGC3..25] 1150 Ap [RGC3..30]
I ² t for fusing (t=10 ms)	1800 A ² s	1800 A ² s	1800 A ² s [RGC3..25] 6600 A ² s [RGC3..30]
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	42-220 VAC + 10% [RG..22.] 42-600 VAC +10% [RG..60.]	42-220 VAC + 10% [RG..22.] 42-600 VAC +10% [RG..60.]	42-600 VAC +10%
Blocking voltage	800 V _p [RG..22.] 1200 V _p [RG..60.]	800 V _p [RG..22.] 1200 V _p [RG..60.]	1200 V _p
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Approvals/Marks	CE - cULus - EAC - VDE - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC
References			
DC control voltage			
220 VAC, 800 V _p	RGC3A22D10KKE	RGC3A22D20KKE	
600 VAC, 1200 V _p	RGC3A60D10KKE	RGC3A60D20KKE	28 AAC: RGC3A60D25KKE 30 AAC: RGC3A60D30KGE
AC/DC control voltage			
220 VAC, 800 V _p	RGC3A22A10KKE	RGC3A22A20KKE	
600 VAC, 1200 V _p	RGC3A60A10KKE	RGC3A60A20KKE	28 AAC: RGC3A60A25KKE 30 AAC: RGC3A60A30KGE





Solid state contactors, 3-phase

	DIN-rail mounting - AC output, 3 poles		Panel mounting - AC output, 3 poles
Types	RGC3A..40..F 42 AAC	RGC3A..65..F 66 AAC	RGC3A..48 48 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency 45-65 Hz. Rated isolation voltage output to heatsink of 4000 Vrms, 100 kArms short circuit current rating.			
Dimensions HxWxD (mm)	135 x 54 x 118 (with fan)	141 x 72 x 141 (with fan)	175 x 157 x 119
Features	54 mm solid state contactor + fan, integrated overheat protection with EMR alarm output, box clamp for power connection	72 mm solid state contactor + fan, integrated overheat protection with EMR alarm output, box clamp for power connection	157 mm solid state contactor, integrated varistors for over-voltage protection, 100 kArms SCCR, box clamp for power connection
Input specifications			
Control input range	5-32 VDC [RG..D..DF] 20-275 VAC [RG..A..AF]	5-32 VDC [RG..D..DF] 5-32 VDC [RG..D..AF] 20-275 VAC [RG..A..AF]	5-32 VDC [RG..D] 20-275 VAC, 24-190 VDC [RG..A]
Input current @ max. control voltage	12.5 mADC [RG..D..DF] 4.3 mAAC [RG..A..AF]	12.5 mADC [RG..D..DF] 5.5 mADC [RG..D..AF] 4.3 mAAC [RG..A..AF]	31.5 mADC [RG..D] 19 mAAC [RG..A]
External supply voltage	24 VDC [RG..D..DF] 90-250 VAC [RG..A..AF]	24 VDC [RG..D..DF] 90-250 VAC [RG..D..AF] 90-250 VAC [RG..A..AF]	
Max. supply current	150 mADC [RG..D..DF] 80 mAAC [RG..A..AF]	150 mADC [RG..D..DF] 80 mAAC [RG..D..AF] 80 mAAC [RG..A..AF]	
Alarm specifications			
Alarm output	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC	
Alarm condition	SSR Over temperature	SSR Over temperature	
Output specifications			
Rated operational current AC-51 @ Ta=40°C	42 AAC	66 AAC	48 AAC
AC-53a @ Ta=40°C	17 AAC	25 AAC	23 AAC
Motor rating	7.5 kW @ 400 VAC 15 HP @ 600 VAC	11 kW @ 400 VAC 25 HP @ 600 VAC	11 kW @ 400 VAC 25 HP @ 600 VAC
Minimum operational current	400 mAAC	500 mAAC	500 mAAC
Non. rep. surge current I _{tsm} (t=10ms)	1150 Ap	1750 Ap	1750 Ap
I ² t for fusing (t=10 ms)	6600 A ² s	15000 A ² s	15000 A ² s
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	42-600 VAC +10%	42-600 VAC +10%	42-600 VAC +10%
Blocking voltage	1200 V _p	1200 V _p	1200 V _p
Power factor	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage	≥ 0.5 at rated voltage
Operating temperature	-40°C to +70°C [RG..D..DF] -40°C to +60°C [RG..A..AF]	-40°C to +70°C [RG..D..DF] -40°C to +60°C [RG..A..AF]	-40°C to +80°C
Approvals/Marks	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC
References			
600 VAC, 1200 V _p			
DC control voltage, DC external supply	RGC3A60D40GGEDF	RGC3A60D65GGEDF	
DC control voltage, AC external supply		RGC3A60D65GGEAF	
AC control voltage, AC external supply	RGC3A60A40GGEAF	RGC3A60A65GGEAF	
DC control voltage			RGC3A60D48KGE
AC control voltage			RGC3A60A48KGE

Solid state contactors, 3-phase

**DIN-rail mounting -
AC output with monitoring, 3 poles**

**Panel mounting
- AC output with
monitoring, 3 poles**

Types	RGC3A..20..M 20 AAC	RGC3A..25/30..M 28/30 AAC	RGC3A..65..FM 66 AAC	RGC3A..48..M 48 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency 45-65 Hz. Rated isolation voltage output to heatsink of 4000 Vrms, 100 kArms SCCR.				
Dimensions HxWxD (mm)	110 x 54 x 118	110 x 72 x 141	141 x 72 x 141 (with fan)	175 x 157 x 119
Features	54 mm solid state contactor, EMR alarm output and electronic auxiliary output, screw with clamp for power connection	72 mm solid state contactor, EMR alarm output and electronic auxiliary output, screw with clamp or box clamp for power connection	72 mm solid state contactor + fan, EMR alarm output and electronic auxiliary output, box clamp for power connection	157 mm solid state contactor, EMR alarm output and electronic auxiliary output, box clamp for power connection

Input specifications

Control input range	5-32 VDC [RG..D..DM] 5-32 VDC [RG..D..AM] 20-275 VAC [RG..A..AM]	5-32 VDC [RG..D..DM] 5-32 VDC [RG..D..AM] 20-275 VAC [RG..A..AM]	5-32 VDC [RG..D..DFM] 5-32 VDC [RG..D..AFM] 20-275 VAC [RG..A..AFM]	5-32 VDC [RG..D..D] 20-275 VAC [RG..A..A]
Control current @ max. control voltage	12.5 mADC [RG..D..DM] 5.5 mADC [RG..D..AM] 4.3 mAAC [RG..A..AM]	12.5 mADC [RG..D..DM] 5.5 mADC [RG..D..AM] 4.3 mAAC [RG..A..AM]	12.5 mADC [RG..D..DFM] 5.5 mADC [RG..D..AFM] 4.3 mAAC [RG..A..AFM]	12.5 mADC [RG..D..D] 4.3 mAAC [RG..A..A]
External supply voltage	24 VDC [RG..D..DM] 90-250 VAC [RG..D..AM] 90-250 VAC [RG..A..AM]	24 VDC [RG..D..DM] 90-250 VAC [RG..D..AM] 90-250 VAC [RG..A..AM]	24 VDC [RG..D..DFM] 90-250 VAC [RG..D..AFM] 90-250 VAC [RG..A..AFM]	24 VDC [RG..D..D] 90-250 VAC [RG..A..A]
Max. supply current	80 mADC [RG..D..DM] 60 mAAC [RG..D..AM] 60 mAAC [RG..A..AM]	80 mADC [RG..D..DM] 60 mAAC [RG..D..AM] 60 mAAC [RG..A..AM]	150 mADC [RG..D..DFM] 80 mAAC [RG..D..AFM] 80 mAAC [RG..A..AFM]	80 mADC [RG..D..D] 60 mAAC [RG..A..A]

Alarm specifications

Alarm output	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC
Alarm condition	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR Open cct., SSR Short cct., SSR Over temperature

Output specifications

Rated operational current AC-51 @ Ta=40°C	20 AAC	28 AAC [RGC3..25] 30 AAC [RGC3..30]	66 AAC	48 AAC
Minimum operational current	250 mAAC	250 mAAC [RGC3..25] 400 mAAC [RGC3..30]	500 mAAC	500 mAAC
Non. rep. surge current I _{tsm} (t=10 ms)	600 Ap	600 Ap [RGC3..25] 1150 Ap [RGC3..30]	1750 Ap	1750 Ap
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC	5 mAAC
I ² t for fusing (t=10 ms)	1800 A ² s	1800 A ² s [RGC3..25] 6600 A ² s [RGC3..30]	15000 A ² s	15000 A ² s
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs	1000 V/μs

General specifications




Operational voltage range	90-600 VAC +10%	90-600 VAC +10%	90-600 VAC +10%	90-600 VAC +10%
Blocking voltage	1200 Vp	1200 Vp	1200 Vp	1200 Vp
Operating temperature	-40°C to +80°C [RG...DM] -40°C to +60°C [RG...AM]	-40°C to +80°C [RG...DM] -40°C to +60°C [RG...AM]	-40°C to +70°C [RG...DFM] -40°C to +60°C [RG...AFM]	-40°C to +80°C [RG...DM] -40°C to +60°C [RG...AM]
Approvals/Marks	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC

References

DC control voltage, DC external supply	RGC3A60D20GKEDM	28 AAC: RGC3A60D25GKEDM 30 AAC: RGC3A60D30GGEDM	RGC3A60D65GGEDFM	RGC3A60D48GGEDM
DC control voltage, AC external supply	RGC3A60D20GKEAM	28 AAC: RGC3A60D25GKEAM 30 AAC: RGC3A60D30GGEAM	RGC3A60D65GGEAFM	
AC control voltage, AC external supply	RGC3A60A20GKEAM	28 AAC: RGC3A60A25GKEAM 30 AAC: RGC3A60A30GGEAM	RGC3A60A65GGEAFM	RGC3A60A48GGEAM




Solid state contactors, 3-phase

4-20 mA Proportional controllers, 2 + 1 poles

Types	RGC2P60AA15C1 15 AAC	RGC2P60AA25C1 27 AAC	RGC2P60AA40C1 40 AAC
3-phase semiconductor proportional controllers with integrated heatsink, AC operating frequency range 45-65 Hz. Rated isolation voltage 4000 Vrms, 100 kArms short circuit current rating.			
Dimensions HxWxD (mm)	110 x 54 x 103	110 x 54 x 103	110 x 72 x 126
Features	54 mm solid state contactor with integrated varistors for over-voltage protection, screw with clamp for power connection	54 mm solid state contactor with integrated varistors for over-voltage protection, screw with clamp for power connection	72 mm solid state contactor, integrated varistors for over-voltage protection, box clamp for power connection
Input specifications			
Control input	4-20 mADC	4-20 mADC	4-20 mADC
Voltage drop	<10 VDC @ 20 mADC	<10 VDC @ 20 mADC	<10 VDC @ 20 mADC
Types			
Switching mode	1 Full Cycle [RGC..C1..]	1 Full Cycle [RGC..C1..]	1 Full Cycle [RGC..C1..]
Output specifications			
Rated operational current AC-51 @ Ta=40°C	15 AAC	27 AAC	40 AAC
Minimum operational current	500 mAAC	500 mAAC	500 mAAC
Non. rep. surge current I _{tsm} (t=10 ms)	600 Ap	600 Ap	1150 Ap
I ² t for fusing (t=10 ms)	1800 A ² s	1800 A ² s	6600 A ² s
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	180-600 VAC +10%	180-600 VAC +10%	180-600 VAC +10%
Blocking voltage	1200 Vp	1200 Vp	1200 Vp
Power factor	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage
Operating temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Approvals/Marks	CE - cULus - EAC -CCC	CE - cULus - EAC -CCC	CE - cULus - EAC -CCC
References			
Control Input:	4-20 mADC	4-20 mADC	4-20 mADC
1 Full Cycle	RGC2P60AA15C1	RGC2P60AA25C1	RGC2P60AA40C1



Solid state contactors, 3-phase

Proportional controllers with monitoring, 2 + 1 poles

Types	RGC2P..25..M 27 AAC	RGC2P..40..M 40 AAC	RGC2P..75..FM 75 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency 45-65 Hz. Rated isolation voltage output to heatsink of 4000 Vrms, 100 kArms short circuit current rating.			
Dimensions HxWxD (mm)	110 x 54 x 118	110 x 72 x 141	141 x 72 x 141 (with fan)
Features	54 mm solid state contactor with integrated varistors for over-voltage protection, system monitoring, screw with clamp for power connection	72 mm solid state contactor with integrated varistors for over-voltage protection, system monitoring, box clamp for power connection	72 mm solid state contactor with fan and system monitoring, integrated varistors for over-voltage protection, box clamp for power connection
Input specifications			
Control input	0-20, 4-20, 12-20 mADC [RGC..I..] 0-10, 0-5, 1-5 VDC [RGC..V..] External potentiometer [RGC..V..]	0-20, 4-20, 12-20 mADC [RGC..I..] 0-10, 0-5, 1-5 VDC [RGC..V..] External potentiometer [RGC..V..]	0-20, 4-20, 12-20 mADC [RGC..I..] 0-10, 0-5, 1-5 VDC [RGC..V..] External potentiometer [RGC..V..]
Input impedance	<250 Ω [RGC..I..] 100 kΩ [RGC..V..]	<250 Ω [RGC..I..] 100 kΩ [RGC..V..]	<250 Ω [RGC..I..] 100 kΩ [RGC..V..]
External supply voltage	24 VDC/AC	24 VDC/AC	24 VDC/AC [RGC..DFM] 90-250 VAC [RGC..AFM]
Max. supply current	90 mADC/AC	90 mADC/AC	175 mADC/AC [RGC..DFM] 60 mAAC [RGC..AFM]
Alarm specifications			
Alarm output	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC
Alarm condition	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature
Types			
Switching mode	1 Full Cycle [RGC..C1..] 4 Full Cycles [RGC..C4..]	1 Full Cycle [RGC..C1..] 4 Full Cycles [RGC..C4..]	1 Full Cycle [RGC..C1..] 4 Full Cycles [RGC..C4..]
Output specifications			
Rated operational current AC-51 @ Ta=40°C	27 AAC	40 AAC	75 AAC
Minimum operational current	500 mAAC	500 mAAC	500 mAAC
Non. rep. surge current I _{sm} (t=10 ms)	600 Ap	1150 Ap	1750 Ap
I ² t for fusing (t=10 ms)	1800 A ² s	6600 A ² s	15000 A ² s
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs
General specifications			
Operational voltage range	180-600 VAC +10%	180-600 VAC +10%	180-600 VAC +10%
Blocking voltage	1200 Vp	1200 Vp	1200 Vp
Power factor	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage
Operating temperature	-40°C to +70°C max. +60°C for 24 VAC supply	-40°C to +70°C max. +60°C for 24 VAC supply	-40°C to +70°C max. +60°C for 24 VAC supply
Approvals/Marks	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC
References			
Control Input:	0-20, 4-20, 12-20 mADC	0-20, 4-20, 12-20 mADC	0-20, 4-20, 12-20 mADC
1 Full Cycle, DC external supply	RGC2P60I25C1DM	RGC2P60I40C1DM	RGC2P60I75C1DFM
1 Full Cycle, AC external supply			RGC2P60I75C1AFM
4 Full Cycles, DC external supply	RGC2P60I25C4DM	RGC2P60I40C4DM	RGC2P60I75C4DFM
4 Full Cycles, AC external supply			RGC2P60I75C4AFM
Control Input:	0-10, 0-5, 1-5 VDC, Pot	0-10, 0-5, 1-5 VDC, Pot	0-10, 0-5, 1-5 VDC, Pot
1 Full Cycle, DC external supply	RGC2P60V25C1DM	RGC2P60V40C1DM	RGC2P60V75C1DFM
1 Full Cycle, AC external supply			RGC2P60V75C1AFM




Solid state contactors, 3-phase

4-20 mA Proportional controllers, 3 poles

Types	RGC3P60AA20.. 20 AAC	RGC3P60AA30.. 30 AAC
3-phase semiconductor proportional controllers with integrated heatsink, AC operating frequency range 45-65 Hz. Rated isolation voltage 4000 Vrms, 100 kArms short circuit current rating.		
Dimensions HxWxD (mm)	110 x 54 x 103	110 x 72 x 126
Features	54 mm solid state contactor with integrated varistors for over-voltage protection, screw with clamp for power connection	72 mm solid state contactor, integrated varistors for over-voltage protection, box clamp for power connection
Input specifications		
Control input	4-20 mADC	4-20 mADC
Voltage drop	<10 VDC @ 20 mADC	<10 VDC @ 20 mADC
Types		
Switching mode	Phase Angle [RGC..E] 1 Full Cycle [RGC..C1]	Phase Angle [RGC..E] 1 Full Cycle [RGC..C1]
Output specifications		
Rated operational current AC-51 @ Ta=40°C	20 AAC	30 AAC
Minimum operational current	500 mAAC	500 mAAC
Non. rep. surge current I _{sm} (t=10 ms)	600 A _p	1150 A _p
I ² t for fusing (t=10 ms)	1800 A ² s	6600 A ² s
Off-state leakage current	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs
General specifications		
Operational voltage range	180-600 VAC +10%	180-600 VAC +10%
Blocking voltage	1200 V _p	1200 V _p
Power factor	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage
Operating temperature	-40°C to +70°C	-40°C to +70°C
Approvals/Marks	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC
References		
Control Input:	4-20 mADC	4-20 mADC
Phase Angle	RGC3P60AA20E	RGC3P60AA30E
1 Full Cycle	RGC3P60AA20C1	RGC3P60AA30C1

Solid state contactors, 3-phase

Proportional controllers with monitoring, 3 poles

Types	RGC3P..20..EP RGC3P..20..M 20 AAC	RGC3P..30..EP RGC3P..30..M 30 AAC	RGC3P..65..EPF RGC3P..65..FM 66 AAC
Semiconductor contactors with integrated heatsink, AC operating frequency 45-65 Hz. Rated isolation voltage output to heatsink of 4000 Vrms, 100 kArms short circuit current rating.			
Dimensions HxWxD (mm)	110 x 54 x 118	110 x 72 x 141	141 x 72 x 141 (with fan)
Features	54 mm solid state contactor with integrated varistors for over-voltage protection, system monitoring, screw with clamp for power connection	72 mm solid state contactor with integrated varistors for over-voltage protection, system monitoring, box clamp for power connection	72 mm solid state contactor with fan and system monitoring, integrated varistors for over-voltage protection, box clamp for power connection

Input specifications

Control input	0-20, 4-20, 12-20 mADC [RGC..I..] 0-10, 0-5, 1-5 VDC [RGC..V..] External potentiometer [RGC..V..]	0-20, 4-20, 12-20 mADC [RGC..I..] 0-10, 0-5, 1-5 VDC [RGC..V..] External potentiometer [RGC..V..]	0-20, 4-20, 12-20 mADC [RGC..I..] 0-10, 0-5, 1-5 VDC [RGC..V..] External potentiometer [RGC..V..]
Input impedance	<250 Ω [RGC..I..] 100 kΩ [RGC..V..]	<250 Ω [RGC..I..] 100 kΩ [RGC..V..]	<250 Ω [RGC..I..] 100 kΩ [RGC..V..]
External supply voltage	24 VDC/AC [RGC..DM] 90-250 VAC [RGC..AM]	24 VDC/AC [RGC..DM] 90-250 VAC [RGC..AM]	24 VDC/AC [RGC..DFM] 90-250 VAC [RGC..AFM]
Max. supply current	90 mADC/AC [RGC..DM] 30 mAAC [RGC..AM]	90 mADC/AC [RGC..DM] 30 mAAC [RGC..AM]	175 mADC/AC [RGC..DFM] 60 mAAC [RGC..AFM]

Alarm specifications

Alarm output	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC	EMR; 2 A 250 VAC / 30 VDC
Alarm condition	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature	Mains loss, Load loss, SSR open cct., SSR short cct., SSR over temperature

Types

Switching mode	Phase Angle [RGC..E..] 1 Full Cycle [RGC..C1..] 4 Full Cycles [RGC..C4..] 16 Full Cycles [RGC..C16..] Softstart [RGC..S..]	Phase Angle [RGC..E..] 1 Full Cycle [RGC..C1..] 4 Full Cycles [RGC..C4..] 16 Full Cycles [RGC..C16..] Softstart [RGC..S..]	Phase Angle [RGC..E..] 1 Full Cycle [RGC..C1..] 4 Full Cycles [RGC..C4..] 16 Full Cycles [RGC..C16..] Softstart [RGC..S..]
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Output specifications

Rated operational current AC-51 @ Ta=40°C	20 AAC	30 AAC	66 AAC
Minimum operational current	500 mAAC	500 mAAC	500 mAAC
Non. rep. surge current I _{ism} (t=10ms)	600 Ap	1150 Ap	1750 Ap
I ² t for fusing (t=10 ms)	1800 A ² s	6600 A ² s	15000 A ² s
Off-state leakage current	5 mAAC	5 mAAC	5 mAAC
Critical dV/dt (@ T _j init=40°C)	1000 V/μs	1000 V/μs	1000 V/μs

General specifications




Operational voltage range	180-600 VAC +10%	180-600 VAC +10%	180-600 VAC +10%
Blocking voltage	1200 V _p	1200 V _p	1200 V _p
Power factor	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage	≥ 0.7 at rated voltage
Operating temperature	-40°C to +70°C max. +60°C for 24 VAC supply	-40°C to +70°C max. +60°C for 24 VAC supply	-40°C to +70°C max. +60°C for 24 VAC supply
Approvals/Marks	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC

References

Phase Angle, DC external supply	RGC3P60Y20EDP	RGC3P60Y30EDP	RGC3P60Y65EDFP
Phase Angle, AC external supply		RGC3P60Y30EAP	RGC3P60Y65EAFP
X Full Cycle, DC external supply	RGC3P60Y20CXDM (X = 1/4/16)	RGC3P60Y30CXDM (X = 1/4/16)	RGC3P60Y65CXDFM (X = 1/4/16)
X Full Cycle, AC external supply		RGC3P60Y30CXAM (X = 1/4/16)	RGC3P60Y65CXAFM (X = 1/4/16)
Softstart + 16 Full Cycles, DC external supply	RGC3P60V20S16DM	RGC3P60V30S16DM	RGC3P60V65S16DFM
Digital Control Input (5-10 VDC):	5-10 VDC	5-10 VDC	5-10 VDC
Softstart + ON/OFF, DC external supply	RGC3P60V20SDM	RGC3P60V30SDM	RGC3P60V65SDFM

Power relays

Power relays

Types	NB (1/2 Poles)	NF (1/2 Poles)	NP (1/2 Poles)
			
Dimensions HxWxD (mm)	55 x 50.5 x 54.5	36 x 50.5 x 54.5	36 x 50.5 x 33.5
No. of Contacts	1 Normally open 2 Normally open	1 Normally open 2 Normally open	1 Normally open 2 Normally open
Contact rating	30 A	30 A	30 A
Terminal types	Bolt	Faston	PCB
Output specifications			
Max. load AC1	30 A (1NO) - 25 A (2NO)	30 A (1NO) - 25 A (2NO)	30 A (1NO) - 25 A (2NO)
Electrical life	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Switching power	7500 VA / 840 W	7500 VA / 840 W	7500 VA / 840 W
General specifications			
Voltage ranges VDC	6 - 12 - 24 - 48 - 100 - 110	6 - 12 - 24 - 48 - 100 - 110	6 - 12 - 24 - 48 - 100 - 110
Voltage ranges VAC	12 - 24 - 48 - 115 - 230	12 - 24 - 48 - 115 - 230	12 - 24 - 48 - 115 - 230
Insulation according to	4000 VAC	4000 VAC	4000 VAC
Consumption	DC=1.9 W - AC=2.7 VA	DC=1.9 W - AC=2.7 VA	DC=1.9 W - AC=2.7 VA
Approvals / Conformity	CE - cURus	CE - cURus	CE - cURus

References

	1NO Contact	2NO Contact	1NO Contact	2NO Contact	1NO Contact	2NO Contact
6 VDC	NBD 100 6	NBD 200 6	NFD 100 6	NFD 200 6	NPD 100 6	NPD 200 6
12 VDC	NBD 100 12	NBD 200 12	NFD 100 12	NFD 200 12	NPD 100 12	NPD 200 12
24 VDC	NBD 100 24	NBD 200 24	NFD 100 24	NFD 200 24	NPD 100 24	NPD 200 24
48 VDC	NBD 100 48	NBD 200 48	NFD 100 48	NFD 200 48	NPD 100 48	NPD 200 48
100 VDC	NBD 100 100	NBD 200 100	NFD 100 100	NFD 200 100	NPD 100 100	NPD 200 100
12 VAC	NBA 100 12	NBA 200 12	NFA 100 12	NFA 200 12	NPA 100 12	NPA 200 12
24 VAC	NBA 100 24	NBA 200 24	NFA 100 24	NFA 200 24	NPA 100 24	NPA 200 24
48 VAC	NBA 100 48	NBA 200 48	NFA 100 48	NFA 200 48	NPA 100 48	NPA 200 48
115 VAC	NBA 100 115	NBA 200 115	NFA 100 115	NFA 200 115	NPA 100 115	NPA 200 115
230 VAC	NBA 100 230	NBA 200 230	NFA 100 230	NFA 200 230	NPA 100 230	NPA 200 230
Options	Consult your Carlo Gavazzi partner or distributor					

Power relays

Power relays

CF (2 Poles)



CS (2 Poles)



Dimensions (mm) WxHxD	26.42 x 68.58 x 34.54	26.42 x 52.32 x 34.54
No. of Contacts	2 Normally open 2 Change-over	2 Normally open 2 Change-over
Contact rating	30 A	30 A
Terminal types	Faston	PCB
Output specifications		
Max. load AC1	30 A (2NO) - 30 A (2CO)	30 A (2NO) - 30 A (2CO)
Electrical life	1 x 10 ⁵	1 x 10 ⁵
Switching power	8310 VA / 840 W	8310 VA / 840 W
General specifications		
Voltage ranges VDC	5 - 6 - 12 - 24 - 48 - 110	5 - 6 - 12 - 24 - 48 - 110
Voltage ranges VAC	24 - 120 - 208 - 240 - 277	24 - 120 - 208 - 240 - 277
Insulation according to	4000 VAC	4000 VAC
Consumption	DC=1.7 W - AC=4 VA	DC=1.7 W - AC=4 VA
Approvals / Conformity	cURus	cURus

References

	2NO Contact	2CO Contact	2NO Contact	2CO Contact
5 VDC	CF30 D2005	CF30 D0025	CS30 D2005	CS30 D0025
6 VDC	CF30 D2006	CF30 D0026	CS30 D2006	CS30 D0026
12 VDC	CF30 D20012	CF30 D00212	CS30 D20012	CS30 D00212
24 VDC	CF30 D20024	CF30 D00224	CS30 D20024	CS30 D00224
48 VDC	CF30 D20048	CF30 D00248	CS30 D20048	CS30 D00248
110 VDC	CF30 D200110	CF30 D002110	CS30 D200110	CS30 D002110
24 VAC	CF30 A20024	CF30 A00224	CS30 A20024	CS30 A00224
120 VAC	CF30 A200120	CF30 A002120	CS30 A200120	CS30 A002120
208 VAC (only 60Hz)	CF30 A200208	CF30 A002208	CS30 A200208	CS30 A002208
220 VAC (only 50Hz)	CF30 A200220	CF30 A002220	CS30 A200220	CS30 A002220
240 VAC	CF30 A200240	CF30 A002240	CS30 A200240	CS30 A002240
277 VAC	CF30 A200277	CF30 A002277	CS30 A200277	CS30 A002277

Options

Consult your Carlo Gavazzi partner or distributor

Industrial and Midi industrial relays

	Industrial relays		Midi industrial relays	
Types	RCP 8 (2 Poles)	RCP 11 (3 Poles)	RMI 2-10 (2 Poles)	RMI 4-5 (4 Poles)
				

Dimensions HxWxD (mm)	56 x 35.5 x 35.5	56 x 35.5 x 35.5	37 x 21.5 x 28	37 x 21.5 x 28
No. of Contacts	2 Change-over (octal)	3 Change-over (undecal)	2 Change-over	4 Change-over
Contact rating	10 A	10 A	10 A	6 A
Features	Test button / Flag / LED	Test button / Flag / LED	Test button / Flag / LED	Test button / Flag / LED

Output specifications

Max. load AC1	12 A / 250 VAC	12 A / 250 VAC	12 A / 250 VAC	6 A / 250 VAC
Min. load	100 mA / 12 VDC	100 mA / 125 VDC	100 mA / 5 VDC	100 mA / 5 VDC
Electrical life	> 100.000 cycles	> 100.000 cycles	> 100.000 cycles	> 100.000 cycles
Switching power	2500 VA (resistive)	2500 VA (resistive)	2500 VA (resistive)	1250 VA (resistive)

General specifications

Voltage ranges VDC	6 - 12 - 24 - 48 - 60 - 110	6 - 12 - 24 - 48 - 60 - 110	12 - 24 - 48 - 60 - 110	12 - 24 - 48 - 60 - 110
Voltage ranges VAC	6 - 12 - 24 - 48 - 115/120 - 230	6 - 12 - 24 - 48 - 115/120 - 230	12 - 24 - 48 - 115/120 - 230	12 - 24 - 48 - 115/120 - 230
Insulation according to	EN 61810-1	EN 61810-1	EN 61810-1	EN 61810-1
Consumption	1.5 W DC-2.5 VA AC	1.5 W DC-2.5 VA AC	1 W DC-1.4 VA AC	1 W DC-1.4 VA AC
Approvals / Conformity	CE - cURus - CSA - IMQ - RINA	CE - cURus - CSA - IMQ - RINA	CE - cURus - CSA - IMQ - RINA	CE - cURus - CSA - IMQ - RINA

References

6 VDC	RCP80026 VDC	RCP110036 VDC		
12 VDC	RCP800212 VDC	RCP1100312 VDC	RMIA21012 VDC	RMIA4512 VDC
24 VDC	RCP800224 VDC	RCP1100324 VDC	RMIA21024 VDC	RMIA4524 VDC
48 VDC	RCP800248 VDC	RCP1100348 VDC	RMIA21048 VDC	RMIA4548 VDC
60 VDC	RCP800260 VDC	RCP1100360 VDC	RMIA21060 VDC	RMIA4560 VDC
100 VDC	RCP8002100 VDC	RCP11003100 VDC		
11 0VDC	RCP8002110 VDC	RCP11003110 VDC	RMIA210110 VDC	RMIA45110 VDC
6 VAC	RCP80026 VAC	RCP110036 VAC		
12 VAC	RCP800212 VAC	RCP1100312 VAC	RMIA21012 VAC	RMIA4512 VAC
24 VAC	RCP800224 VAC	RCP1100324 VAC	RMIA21024 VAC	RMIA4524 VAC
48 VAC	RCP800248 VAC	RCP1100348 VAC	RMIA21048 VAC	RMIA4548 VAC
115/120 VAC	RCP8002115/120 VAC	RCP11003115/120 VAC	RMIA210115/120 VAC	RMIA45115/120 VAC
230 VAC	RCP8002230 VAC	RCP11003230 VAC	RMIA210230 VAC	RMIA45230 VAC
Options	Consult your Carlo Gavazzi partner or distributor			

	Industrial relays sockets		Midi industrial relays sockets	
Types	ZPD 8XA ZPD 11XA	ZPD 8A ZPD 11A	ZMI 2NA ZMI 4NA	ZMI 2 / 3 / 4SA
				

General specifications

Dimensions HxWxD (mm)	65 x 27 x 38	65 x 27 x 38	42.5 x 75 x 27	42.5 x 75 x 27
Rated volt. / Rated curr.	10 A @ 400 VAC	10 A @ 400 VAC	10 A @ 300 VAC	10/12 A @ 300 VAC
Insulation voltage	> 3 kV	> 3 kV	> 4 kV	> 4 kV
Socket material	Self-ext. PA6 + GF (V1)	Self-ext. PA6 + GF (V1)	Self-ext. PA6 + GF (V2)	Self-ext. PA6 + GF (V2)
Mounting	DIN-rail	DIN-rail	DIN-rail	DIN-rail
Degree of protection	IP20	IP20	IP20	IP20
Approvals	CE - cURus - CSA (10 A 300 VAC)	CE - cURus - CSA - IMQ	CE - cURus - CSA	CE - cURus - CSA

References

For RCP 8 / RCP 11	ZPD 8XA / ZPD 11XA	ZPD 8A / ZPD 11A		
For RMI2-10 / RMI4-5			ZMI 2NA / ZMI 4NA	ZMI 2 / 3 / 4SA

Midi industrial relays

Midi industrial relays

Types	RPY 1	RPY 2	RPY 3	RPY 4
				

Dimensions HxWxD (mm)	36 x 21.5 x 28	36 x 21.5 x 28	36 x 31.5 x 28	36 x 41.5 x 28
No. of Contacts	1 Change-over	2 Change-over	3 Change-over	4 Change-over
Contact rating	16 A	10 A	10 A	10 A
Terminal types	Faston or PCB	Faston or PCB	Faston or PCB	Faston or PCB

Output specifications

Max. load AC1	16 A	10 A	10 A	10 A
Electrical life	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Switching power	1 HP at 240 VAC 1/2 HP at 120 VAC	3/4 HP at 240 VAC 1/3 HP at 120 VAC	3/4 HP at 240 VAC 1/3 HP at 120 VAC	3/4 HP at 240 VAC 1/3 HP at 120 VAC

General specifications

Voltage ranges VDC	6 - 12 - 24 - 36 - 48 - 110	6 - 12 - 24 - 36 - 48 - 110	6 - 12 - 24 - 36 - 48 - 110	6 - 12 - 24 - 36 - 48 - 110 - 220
Voltage ranges VAC	6 - 12 - 24 - 120 - 230	6 - 12 - 24 - 120 - 230	6 - 12 - 24 - 120 - 230	6 - 12 - 24 - 120 - 230
Insulation Coil / Contact	2000/1200 VAC	2000/1200 VAC	2000/1200 VAC	2000/1200 VAC
Consumption	DC=0.9 W - AC=1.2 VA	DC=0.9 W - AC=1.2 VA	DC=1.4 W - AC=2 VA	DC=1.5 W - AC=2.5 VA
Approvals / Conformity	CE - cURus - CSA - TÜV	CE - cURus - CSA - TÜV	CE - cURus - CSA - TÜV	CE - cURus - CSA - TÜV

References

6 VDC	RPYA0016	RPYA0026	RPYA0036	RPYA0046
12 VDC	RPYA00112	RPYA00212	RPYA00312	RPYA00412
24 VDC	RPYA00124	RPYA00224	RPYA00324	RPYA00424
36 VDC	RPYA00136	RPYA00236	RPYA00336	RPYA00436
48 VDC	RPYA00148	RPYA00248	RPYA00348	RPYA00448
110 VDC	RPYA001110	RPYA002110	RPYA003110	RPYA004110
6 VAC	RPYA001A6	RPYA002A6	RPYA003A6	RPYA004A6
12 VAC	RPYA001A12	RPYA002A12	RPYA003A12	RPYA004A12
24 VAC	RPYA001A24	RPYA002A24	RPYA003A24	RPYA004A24
120 VAC	RPYA001A120	RPYA002A120	RPYA003A120	RPYA004A120
230 VAC	RPYA001A230	RPYA002A230	RPYA003A230	RPYA004A230
Options	Consult your Carlo Gavazzi partner or distributor			

Midi industrial relays sockets

Types	ZPY08A	ZPY11A	ZPY14A
			

General specifications

Dimensions HxWxD (mm)	27.8 x 30 x 69.8	27.8 x 40 x 69.8	27.8 x 50.5 x 69.8
Rated volt. / Rated curr.	10 A @ 300 VAC	10 A @ 300 VAC	10 A @ 300 VAC
Insulation voltage	> 4 kV	> 4 kV	> 4 kV
Socket material	PA6 - V2	PA6 - V2	PA6 - V2
Mounting	DIN-rail	DIN-rail	DIN-rail
Degree of protection	IP 00	IP 00	IP 00
Approvals	CE - cURus - CSA	CE - cURus - CSA	CE - cURus - CSA


References

Consult your Carlo Gavazzi Partner or Distributor	For Relays: RPYA 001 and RPYA 002	For Relays: RPYA 003	For Relays: RPYA 004
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Midi and Slim industrial relays

Midi industrial relays

Slim industrial relays

Types	RPYS 001	RPYS 002	RSLM100	RSLM001
				
Dimensions HxWxD (mm)	28 x 29 x 12.6	28 x 29 x 12.6	15 x 28 x 5	15 x 28 x 5
No. of Contacts	1 Change-over	2 Change-over	1 Normally open	1 Change-over
Contact rating	12 A	8 A	6 A	6 A
Terminal types	Faston or PCB	Faston or PCB	PCB	PCB

Output specifications

Max. load AC1	12 A	8 A	6 A / 250 VAC	6 A / 250 VAC
Min. load	10 mA / 12 VDC	10 mA / 12 VDC	170 mW / 24 VDC 210 mW/ 48~60 VDC	170 mW / 24 VDC 210 mW/ 48~60 VDC
Mechanical endurance	≥ 10, 000, 000 cycles (18000 Ops / h)	≥ 10, 000, 000 cycles (18000 Ops / h)	> 100,000 cycles	> 100,000 cycles
Electrical life	1 x 10 ⁵	1 x 10 ⁵		
Switching power	1/3 HP, 24 0VAC (Motor load)	1/6 HP, 240 VAC (Motor load)	1500 VA	1500 VA

General specifications

Voltage ranges VDC	12 - 24	12 - 24	12 - 24 - 48 - 60	12 - 24 - 48 - 60
Voltage ranges VAC	24 - 115 - 230	24 - 115 - 230		
Insulation Coil / Contact	4000 VAC/1min	4000 VAC/1min		
Consumption	DC (W) approx. 0.53 AC (VA) approx. 1.0	DC (W) approx. 0.53 AC (VA) approx. 1.0	170 mW ~ 210 mW	170 mW ~ 210 mW
Approvals / Conformity	CE - cURus	CE - cURus	cURus - CSA - VDE - CQC	cURus - CSA - VDE - CQC

References

12 VDC	RPYS001012D	RPYS002012D	RSLM100012	RSLM001012
24 VDC	RPYS001024D	RPYS002024D	RSLM100024	RSLM001024
24 VAC	RPYS001024A	RPYS002024A		
48 VDC			RSLM100048	RSLM001048
60 VDC			RSLM100060	RSLM001060
115 VAC	RPYS001115A	RPYS002115A		
230 VAC	RPYS001230A	RPYS002230A		
Options	Consult your Carlo Gavazzi partner or distributor			

Midi industrial relays sockets

Slim relay sockets

Types	ZPYS1S	ZPYS2S	ZRLS1.NA	ZRLS1.GA	ZRLP
					

General specifications

Dimensions HxWxD (mm)	61.5 x 80 x 15.8	61.5 x 80 x 15.8	88 x 55 x 6	101 x 80 x 6	33 x 30 x 6
Rated volt. / Rated curr.	16 A @ 300 VAC	10 A @ 300 VAC	6 A @ 300 VAC	6 A @ 300 VAC	6 A @ 300 VAC
Insulation voltage	4 Kv	4 Kv	> 3 kV	> 3 kV	> 3 kV
Socket material	PA6 - V2	PA6 - V2	PA66 + GF (V0)	PA66 + GF (V0)	PA66 + GF (V0)
Mounting	DIN-rail	DIN-rail	DIN-rail	DIN-rail	PCB
Terminal Type	IPO0	IPO0	Screw cage	Spring loaded	
Approvals	CE - cURus	CE - cURus	CE - cURus - CSA	CE - cURus - CSA	CSA - cURus

References

Consult your Carlo Gavazzi Partner or Distributor	For Relays: RPYS001 and RPYS002			
Input Voltage 6~24 VAC/VDC		ZRLS12NA	ZRLS12GA	
Input Voltage 48~60 VAC/VDC		ZRLS13NA	ZRLS13GA	
Input Voltage 110~125 VAC/VDC		ZRLS14NA	ZRLS14GA	
Input Voltage 220~240 VAC/VDC		ZRLS15NA	ZRLS15GA	

ZRLP

Socket for electromechanical relays

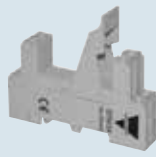
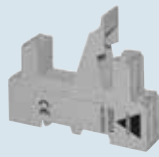
Types

ZD 35/2A

ZD 50/2A

ZD 35/3A

ZD 50/3A



General specifications

Rated volt. / Rated curr.	12 A @ 300 VAC	12 A @ 300 VAC	12 A @ 300 VAC	12 A @ 300 VAC
Insulation voltage	> 5 kV	> 5 kV	> 5 kV	> 5 kV
Socket material	Self-ext. PA6 + GF (V1)	Self-ext. PA6 + GF (V1)	Self-ext. PA6 + GF (V1)	Self-ext. PA6 + GF (V1)
Mounting	DIN-rail	DIN-rail	DIN-rail	DIN-rail
Degree of protection	IP20	IP20	IP20	IP20
Approvals	CE - cURus - CSA (12 A, 300 VAC)	CE - cURus - CSA (12 A, 300 VAC)	CE - cURus - CSA (12 A, 300 VAC)	CE - cURus - CSA (12 A, 300 VAC)

References

For relay:	MZ 1P 5/10 A	MZ B 1P 5/10 A	MZ 1P 5/10 A	MZ B 1P 5/10 A
	M15 M 8 A	MZ 2P 5/10 A	M15 M 8 A	MZ 2P 5/10 A
	M25 1P 12 A	MZ 1P 16 A	M25 1P 12 A	MZ 1P 16 A
	LC 10 A	M15 M 8 A	LC 10 A	M15 M 8 A
		M25 1P 16 A		M25 1P 16 A
		M25 2P 8 A		M25 2P 8 A
	LC 5/16 A		LC 5/16 A	

For detailed information consult your Carlo Gavazzi Partner or Distributor

Hold down spring to be ordered separately:
 • SZD15 for M15/M25 relays
 • SZD20 for LC relays
 • SZD25 for MZ relays

Hold down spring to be ordered separately:
 • SZD15 for M15/M25 relays
 • SZD20 for LC relays
 • SZD25 for MZ relays

Hold down spring to be ordered separately:
 • SZD15 for M15/M25 relays
 • SZD20 for LC relays
 • SZD25 for MZ relays

Hold down spring to be ordered separately:
 • SZD15 for M15/M25 relays
 • SZD20 for LC relays
 • SZD25 for MZ relays

Types

Additional modules for ZMI and ZD sockets

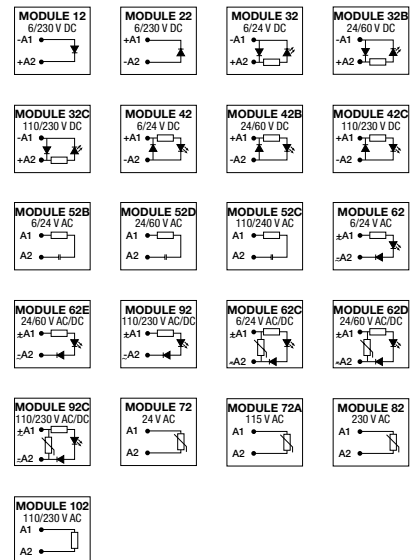


General specifications

Dimensions (mm) WxHxD	23 x 12.5 x 8.5
Terminal material	CuSn
Degree of protection	IP40
Operating temperature	-40°C to +70°C
Ambient humidity	85RH non condensing
Approvals / Conformity	No approvals

References

Consult your Carlo Gavazzi Partner or Distributor



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