

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

CRYDOM

Control over power

Series CMRD24/CMRA24

35-65Amp • 240 Vac • AC Output

- Zero Voltage and Random Turn-On Switching
- DIN Rail & Panel Mount
- Status Indicating LED
- DC or AC Control
- Integrated Overvoltage Protection by Automatic Self Turn-On (Suffix P)

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available in zero-cross or random turn-on versions. Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS		CMRD2435 CMRA2435	CMRD2445 CMRA2445	CMRD2455 CMRA2455	CMRD2465 CMRA2465
OUTPUT SPECIFICATIONS ①					
Operating Voltage (47-63 Hz) [Vrms]		24-280	24-280	24-280	24-280
Max. Load Current @ 25°C Ambient Temperature [Arms]		35	45	55	65
Min. Load Current, [Arms]		0.15	0.15	0.25	0.25
Transient Overvoltage [Vpk]		600	600	600	600
Max. Surge Current, (16.6ms) [Apk]		250	625	1000	1200
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.6	1.6	1.6	1.6
Thermal Resistance Junction to Case (R _{θJC}) [°C/W]		1.02	0.63	0.31	0.28
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		260	1620	4150	6000
Max. Off-State Leakage Current @ Rated Voltage [mArms]		10	10	10	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		500	500	500	500
Max. Turn-On Time ③		1/2 Cycle (DC Control), 10.0 msec (AC Control)			
Max. Turn-Off Time		1/2 Cycle (DC Control), 40.0 msec(AC Control)			
Power Factor (Min.) with Max. Load		0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS ①		DC CONTROL	AC CONTROL	GENERAL SPECIFICATIONS	
Control Voltage Range	3-32 Vdc	90-140 Vrms	Dielectric Strength 50/60Hz Input/Output/Base 4000 Vrms		
Max. Reverse Voltage	32 Vdc	—	Insulation Resistance (Min.) @ 500 Vdc 10 ⁹ Ohm		
Max. Turn-On Voltage	3.0 Vdc	90 Vrms	Max. Capacitance Input/Output 8 pF		
Min. Turn-Off Voltage	1.0 Vdc	10 Vrms	Ambient Operating Temperature Range -40 to 80°C		
Max. Input Current	30.0mA ④	—	Ambient Storage Temperature Range -40 to 125°C		
Typical Input Current	17mA @ 5 Vdc	15mA @ 120 Vrms	Status Indicating Display Green LED		

GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
 ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
 ③ Turn-on time for DC control random turn-on versions is 0.02msec.
 ④ Input circuitry incorporates active current limiter.

MECHANICAL SPECIFICATIONS

Weight: (typical)	16.8 oz. (476g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Cage Type
Maximum Wire Size- Output: AWG 8 (3.8mm) Input: AWG12 (2.5mm)	
Max. Terminal Screw Torque: Output: 8.9 in lb (1.0 Nm) Input: 5.3 in lb (0.6 Nm)	

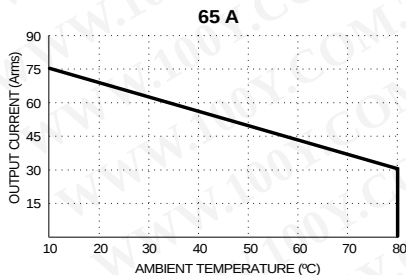
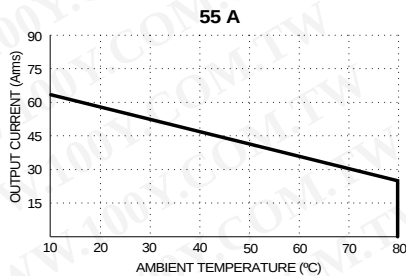
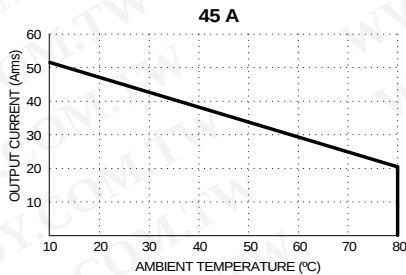
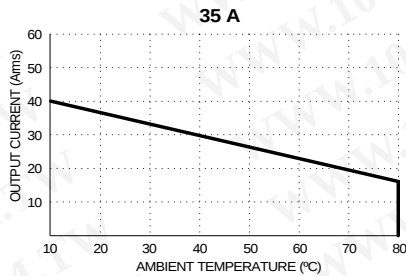
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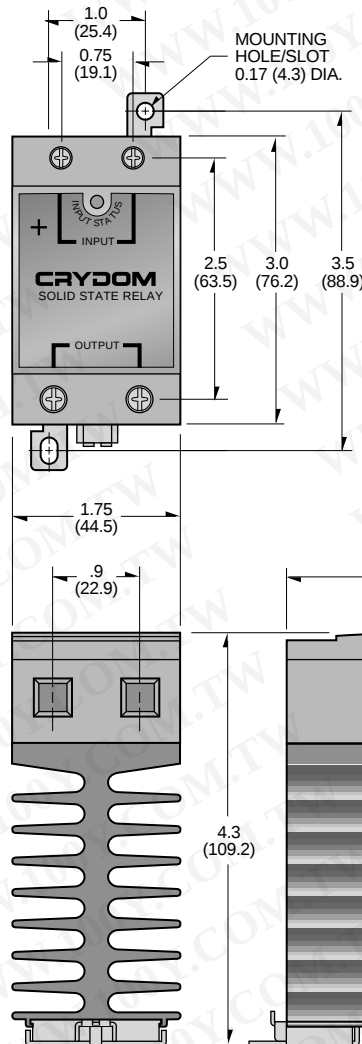
Control over power

CURRENT DERATING CURVES



Series CMRD24/CMRA24

35-65Amp • 240 Vac • AC Output



MECHANICAL SPECIFICATIONS

All dimensions are in inches (millimeters)

HEAT SINK:
BLACK ANODIZED
ALUMINUM

AVAILABLE OPTIONS

- 10** Random Turn-On, Phase Controllable
Example: **CMRD2435-10**
- E** 24 Vac Input (18-36 Vac)
Example: **CMRA2435E**
- P** Internal Overvoltage Protection
Relay Will Self Trigger Between
450-600 Vpk. Not Suitable For Capacitive Loads.
Example: **CMRD2435P**

APPROVALS

UL E116950
 CSA LR81689
 VDE 126921 UG



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CRYDOM

Control over power

Series CMRD48/CMRA48

35-65Amp • 480 Vac • AC Output

- Zero Voltage and Random Turn-On Switching
- DIN Rail & Panel Mount
- Status Indicating LED
- DC or AC Control
- Integrated Overvoltage Protection by Automatic Self Turn-On (Suffix P)

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available in zero-cross or random turn-on versions.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	CMRD4835 CMRA4835	CMRD4845 CMRA4845	CMRD4855 CMRA4855	CMRD4865 CMRA4865
OUTPUT SPECIFICATIONS ①				
Operating Voltage (47-63 Hz) [Vrms]	48-530	48-530	48-530	48-530
Max. Load Current @ 25°C Ambient Temperature [Arms]	35	45	55	65
Min. Load Current, [Arms]	0.15	0.15	0.25	0.25
Transient Overvoltage [Vpk]	1200	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]	250	625	1000	1200
Max. On-State Voltage Drop @ Rated Current [Vpk]	1.7	1.7	1.7	1.7
Thermal Resistance Junction to Case ($R_{\theta JC}$) [°C/W]	1.02	0.63	0.31	0.28
Maximum $I^2 t$ for Fusing, (8.3 msec.) [$A^2 sec$]	260	1620	4150	6000
Max. Off-State Leakage Current @ Rated Voltage [mArms]	10	10	10	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②	500	500	500	500
Max. Turn-On Time ③	1/2 Cycle (DC Control), 10.0 msec (AC Control)			
Max. Turn-Off Time	1/2 Cycle (DC Control), 40.0 msec (AC Control)			
Power Factor (Min.) with Max. Load	0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS ①	DC CONTROL	AC CONTROL
Control Voltage Range	4-32 Vdc	90-140 Vrms
Max. Reverse Voltage	32 Vdc	—
Max. Turn-On Voltage	4.0 Vdc	90 Vrms
Min. Turn-Off Voltage	1.0 Vdc	10 Vrms
Max. Input Current	30.0mA ④	—
Typical Input Current	14mA @ 5 Vdc 15mA @ 120 Vrms	

GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10^9 Ohm
Max. Capacitance Input/Output	8 pF
Ambient Operating Temperature Range	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125°C
Status Indicating Display	Green LED

MECHANICAL SPECIFICATIONS

Weight: (typical)	16.8 oz. (476g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	Cage Type
Maximum Wire Size- Output: AWG 8 (3.8mm) Input: AWG12 (2.5mm)	
Max. Terminal Screw Torque: Output : 8.9 in lb (1.0 Nm) Input: 5.3 in lb (0.6 Nm)	

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GENERAL NOTES

- ① All parameters at 25° C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ Turn-on time for DC control random turn-on versions is 0.02msec.
- ④ Input circuitry incorporates active current limiter.



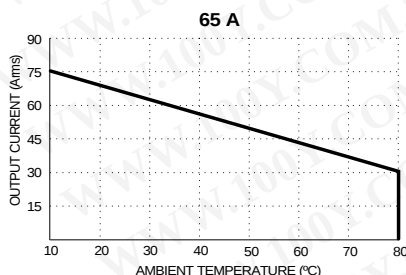
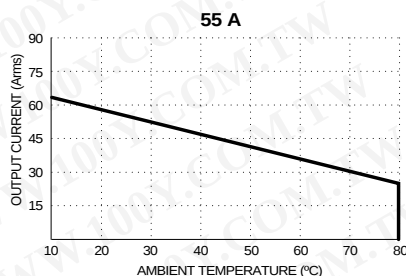
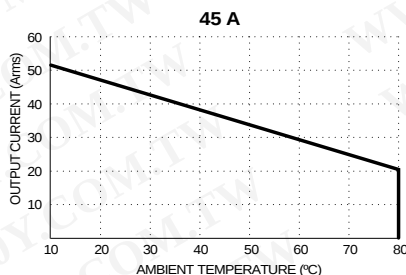
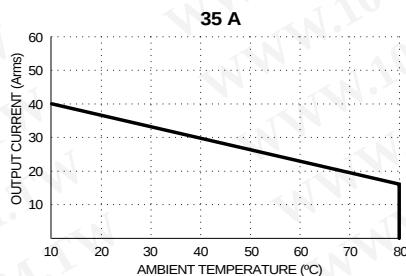
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35-65Amp • 480 Vac • AC Output

CURRENT DERATING CURVES



APPROVALS

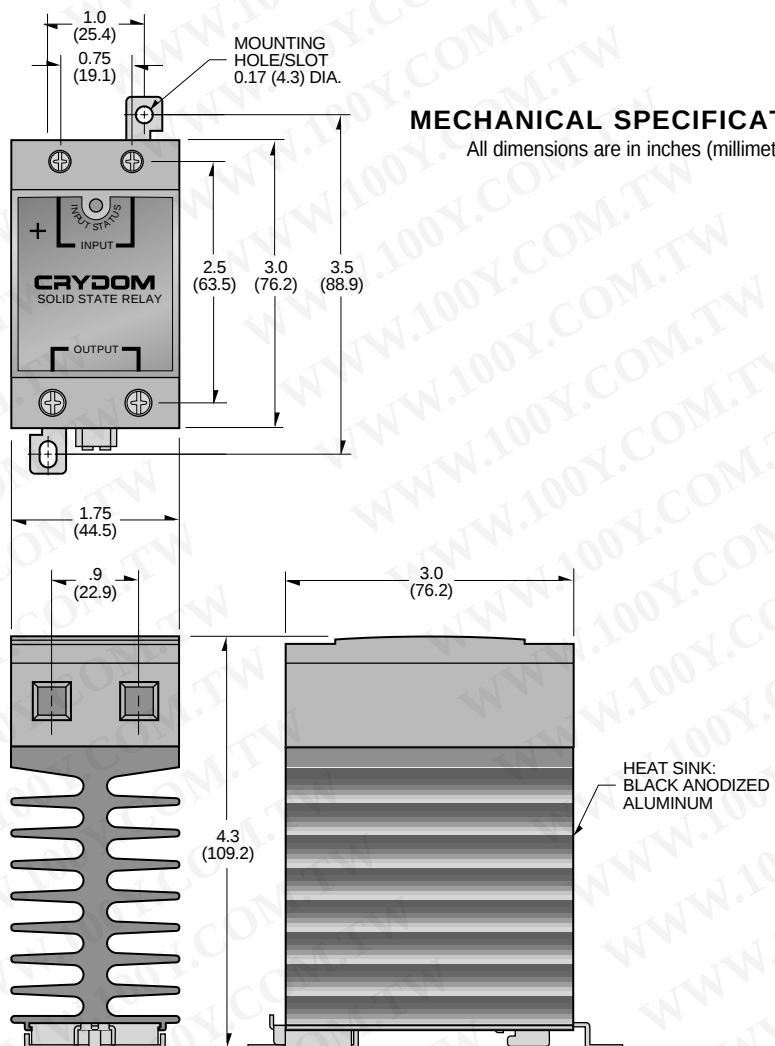
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MECHANICAL SPECIFICATIONS

All dimensions are in inches (millimeters)



AVAILABLE OPTIONS

- 10 Random Turn-On, Phase Controllable
 Example: **CMRD4835-10**
- E 24 Vac Input (18-36 Vac)
 Example: **CMRA4835E**
- P Internal Overvoltage Protection.
 Relay Will Self Trigger Between 900-1200Vpk. Not suitable For Capacitive Loads.
 Example: **CMRD4835P**

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GERMANY: +49 (0)180 3000 506



CRYDOM

Control over power

Series CMRD60/CMRA60

35-65Amp • 600 Vac • AC Output

- Zero Voltage and Random Turn-On Switching
- DIN Rail & Panel Mount
- Status Indicating LED
- DC or AC Control
- Integrated Overvoltage Protection by Automatic Self Turn-On (Suffix P)

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available in zero-cross or random turn-on versions.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS		CMRD6035 CMRA6035	CMRD6045 CMRA6045	CMRD6055 CMRA6055	CMRD6065 CMRA6065
OUTPUT SPECIFICATIONS ①					
Nominal Line Voltage (±10%) [Vrms]		600	600	600	600
Operating Voltage (47-63 Hz) [Vrms]		48-660	48-660	48-660	48-660
Max. Load Current @ 25°C Ambient Temperature [Arms]		35	45	55	65
Min. Load Current, [Arms]		0.15	0.15	0.25	0.25
Transient Overvoltage [Vpk]		1200	1200	1200	1200
Max. Surge Current, (16.6ms) [Apk]		250	625	1000	1200
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.7	1.7	1.7	1.7
Thermal Resistance Junction to Case (RθJC) [°C/W]		1.02	0.63	0.31	0.28
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		260	1620	4150	6000
Max. Off-State Leakage Current @ Rated Voltage [mArms]		1.0	1.0	1.0	1.0
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		500	500	500	500
Max. Turn-On Time ③		1/2 Cycle (DC Control), 10.0 msec (AC Control)			
Max. Turn-Off Time		1/2 Cycle (DC Control), 40.0 msec (AC Control)			
Power Factor (Min.) with Max. Load		0.5	0.5	0.5	0.5
INPUT SPECIFICATIONS ①		DC CONTROL	AC CONTROL	GENERAL SPECIFICATIONS	
Control Voltage Range	4-32 Vdc	90-140 Vrms	Dielectric Strength 50/60Hz Input/Output/Base		
Max. Reverse Voltage	32 Vdc	—	4000 Vrms		
Max. Turn-On Voltage	4.0 Vdc	90 Vrms	Insulation Resistance (Min.) @ 500 Vdc		
Min. Turn-Off Voltage	1.0 Vdc	10 Vrms	10 ⁹ Ohm		
Max. Input Current	30.0mA ④	—	Max. Capacitance Input/Output		
Typical Input Current	14mA @ 5 Vdc	15mA @ 120 Vrms	8 pF		
			Ambient Operating Temperature Range		
			-40 to 80°C		
			Ambient Storage Temperature Range		
			-40 to 125°C		
			Status Indicating Display		
			Green LED		

GENERAL NOTES

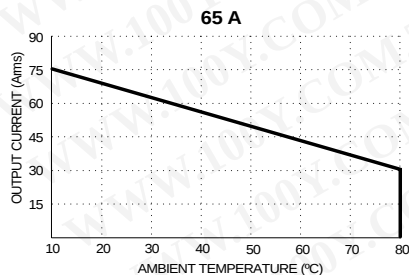
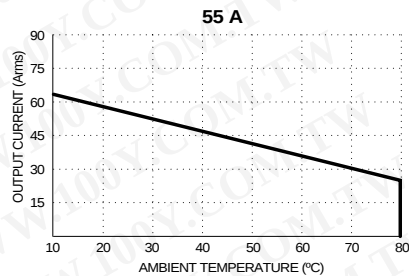
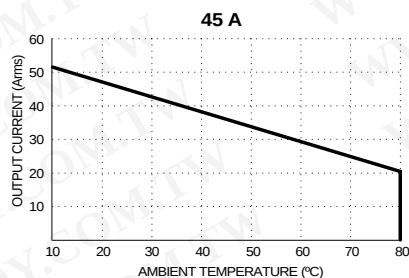
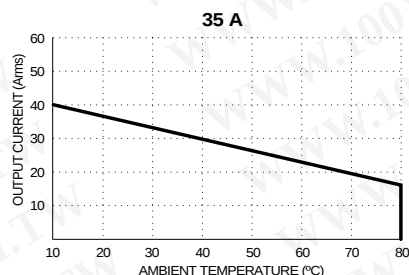
- ① All parameters at 25° C unless otherwise specified.
② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
③ Turn-on time for DC control random turn-on versions is 0.02msec.
④ Input circuitry incorporates active current limiter.

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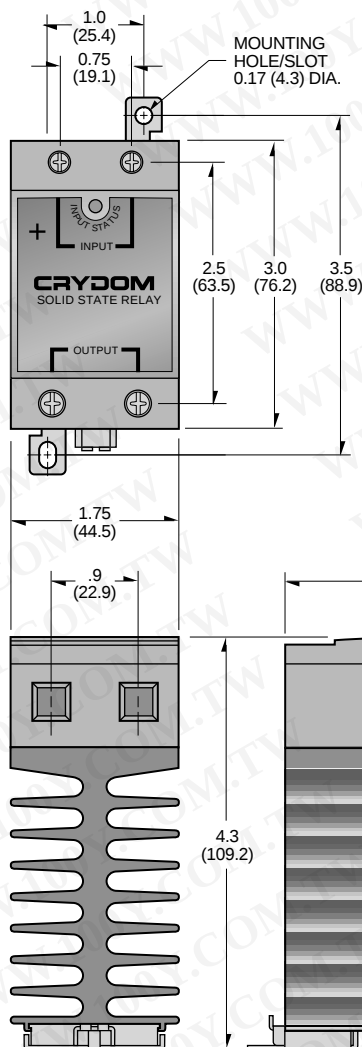
Control over power

CURRENT DERATING CURVES



Series CMRD60/CMRA60

35-65Amp • 600 Vac • AC Output



MECHANICAL SPECIFICATIONS

All dimensions are in inches (millimeters)

AVAILABLE OPTIONS

- 10 Random Turn-On, Phase Controllable
Example: **CMRD6035-10**
- E 24 Vac Input (18-36 Vac)
Example: **CMRA6035E**
- P Internal Overvoltage Protection.
Relay Will Self Trigger Between
900-1200Vpk. Not Suitable For Capacitive Loads.
Example: **CMRD6035P**

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APPROVALS

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