



PM22 Series AC Output Panel Mount Solid State Relays

- Ratings up to 95 Amps at 600 VAC
- Built-in overvoltage transient protection
- DBC substrate for superior thermal performance
- LED input status indicator
- IP20 touch safe housing
- AC or DC control voltage options
- 4000 VAC optical isolation
- C-UL-US Recognized and TUV approved

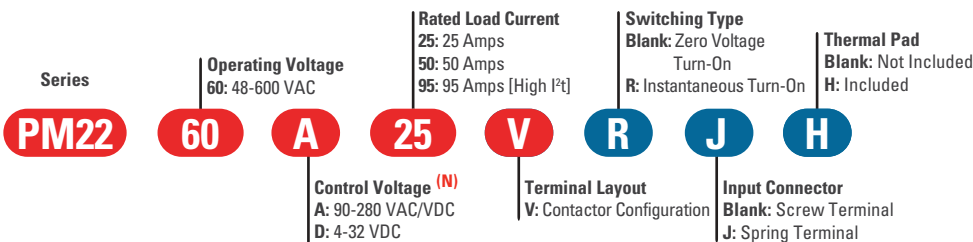


Output Specifications (A)	PM2260x25x	PM2260x50x	PM2260x95x
Operating Voltage (47-440 Hz) [V _{RMS}]	48-600	48-600	48-600
Transient Overvoltage [Vpk] (B)	1200	1200	1200
Maximum Off-State Leakage Current @ Rated Voltage [mA _{RMS}]	1	1	1
Minimum Off-State dV/dt @ Maximum Rated Voltage [V/μsec]	500	500	500
Load Current, General Use UL508/LC A IEC 62314 @ 40°C [A _{RMS}] (M)	25	50	95
Load Current, Motor Starting UL508 FLA /LC B IEC 62314 @ 40°C [A _{RMS}] (M)	8.5/4.8	14/7.6	26/14
Minimum Load Current [mA _{RMS}]	100	100	150
Maximum 1 Cycle Surge Current (50/60 Hz) [A _{pk}]	286/300	716/750	1290/1350
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.35	1.35	1.30
Thermal Resistance Junction to Case [Rjc] [°C/W]	0.49	0.27	0.2
Maximum 1/2 Cycle I ² t for Fusing (50/60 Hz) [A ² sec]	409/375	2563/2343	8320/7593
Minimum Power Factor (at Maximum load)	0.5	0.5	0.5
Minimum Heat sink for Rated Current @ 40°C	2	0.7	0.23
Motor Rating UL 508/IEC62314 [HP (kW)]: 120 VAC	0.5 (0.37)	1 (0.74)	2 (1.5)
Motor Rating UL 508/IEC62314 [HP (kW)]: 240 VAC	1.5 (1.1)	3 (2.2)	5 (3.73)
Motor Rating UL 508/IEC62314 [HP (kW)]: 480 VAC	3 (2.24)	5 (3.7)	10 (7.4)

Input Specifications (A)	PM2260Axx	PM2260Dxx
Control Voltage Range	90-280 VAC/VDC (E)	4-32 VDC (F)
Maximum Reverse Voltage	-	-32 VDC
Minimum Turn-On Voltage	90 VAC/VDC	4 VDC
Must Turn-Off Voltage	5 VAC/VDC	1 VDC
Minimum Input Current (for on-state) [mA]	6	10
Maximum Input Current [mA]	10	15
Nominal Input Impedance [Ohms]	Current Limited	Current Limited
Maximum Turn-On time	20 msec	1/2 Cycle (G)
Maximum Turn-Off time	30 msec	1/2 cycle

General Specifications	PM2260xxx
Dielectric Strength, Input to Output (50/60 Hz) [V _{RMS}]	4000
Dielectric Strength, Input/Output/Case (50/60 Hz) [V _{RMS}]	4000
Minimum Insulation Resistance (@ 500 VDC) [Ohms]	10 ⁹
Maximum Capacitance, Input/Output [pF]	8
Ambient Operating Temperature Range [°C] (H)	-40 to 80
Ambient Storage Temperature Range [°C]	-40 to 100
Short Circuit Current Rating [kA] (J)	100
LED Input Status Indicator	Green
Weight (Typical) [oz] (g)	2.3 (64)
Housing Material	UL94 V-0
Baseplate Material	Aluminum
Hardware Finish	Nickel Plating
Humidity	85% non-condensing

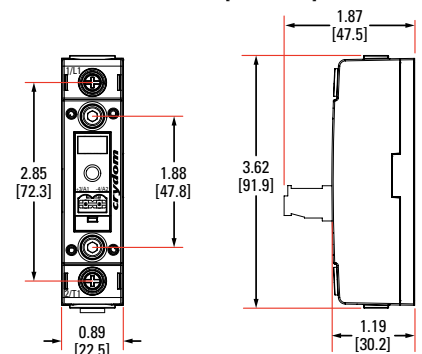
Part Number Nomenclature



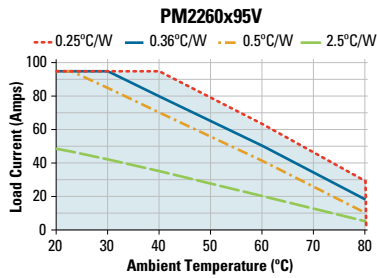
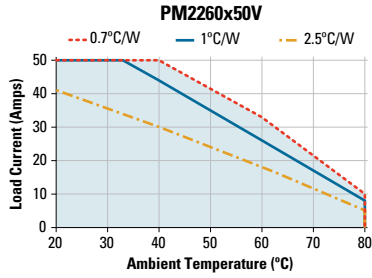
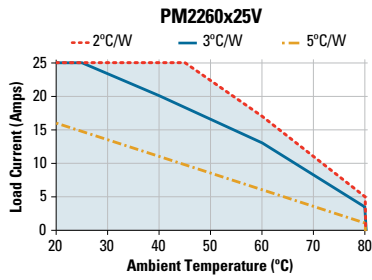
- Required for valid part number
- For options only and not required for valid part number

Mechanical Dimensions

Tolerances: ±0.02 in / 0.5 mm
 All dimensions are in: inches [millimeters]



Derating Curves (H)



General Notes

- (A) All parameters at 25°C unless otherwise specified.
- (B) Output will self trigger between 900-1200 Vpk. Not suitable for capacitive loads.
- (E) Above 40°C ambient temperature the maximum control voltage must not exceed 250 VAC/VDC.
- (F) Increase minimum voltage by 1 V for operations from -20 to -40°C.
- (G) Turn-On Time for Instantaneous Turn-On versions is 0.1 msec.
- (H) Operating range -20 to 60°C for AC control models only.
- (M) Heat sink required, see derating curves.
- (N) Control voltage 18-52 VAC/VDC is available upon request.

Recommended Accessories for PM22 Series

Connectors	ID Marker	Hardware Kit	Heat Sink Part No.	Thermal Resistance [°C/W]	Module	Thermal Pad
CP201	CNLB	HK8	HS259DR	2.5	DRML1	HSP-7
CP202	CNLN		HS073	0.7		
	CNL2		HS072	0.7		
			HS053	0.5		
			HS033	0.36		
			HS023	0.25		

New Accessories!

Connectors

Part number: CP201, CP202



Pluggable input connectors, 2 position, with screw terminals (CP201) or spring type terminals (CP202). Compatible with Contactor configuration NOVA22 SSRs.

Hardware Kit

Part number: HK8



Bag with 2 SSR mounting screws 8-32 x 3/8, Hex Socket Cap, compatible with PM22 Series Panel Mount SSRs. Used to mount the SSR onto any of our compatible heat sinks.

Heat Sink

Part number: HS259DR



DIN Rail mountable heat sink with 2.5°C/W thermal resistance. Heat sink material is aluminum with black anodized finish. Suitable for mounting a single PM22 Series Panel Mount SSR.

Load Monitoring Module

Part number: DRML1



Load monitoring module with a total current range from 1.2 to 50 Amps at 600 VAC. Compatible with DIN Rail and Panel Mount NOVA SSRs (DR2260DxxV/W & PM2260DxxV).

Lug Terminal

Part number: TRMO



Copper wire lug for AWG 6 (13.3 mm²) to AWG 0 (53.5 mm²) wire size. For use with "Elevator" screw option ("W" suffix) NOVA22 SSRs.

Thermal Pad

Part number: HSP-7



Non-adhesive thermal pad for half-puck package SSRs. Compatible with PM22 Series Panel Mount SSRs.