# The PMA Range of Thyristor Power Controllers

| | PREVIOUS UNIT TYPE | Relay CL | Relay SSR | Relay S - 1PH | Relay S - 2PH | Relay S - 3PH | Relay M - 1PH | Relay M - 2PH | Relay M - 3PH | PM3000E-2PH | PM3000E-3PH | Powerstack 1PH | Powerstack 2PH | Powerstack 3PH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ACTUAL UNIT TYPE | RCL | SSR | RS1 | RS2 | RS3 | RM1 | RM2 | RM3 | RE2 | RE3 | RD1 | RD2 | RD3 |
| LOAD TYPE | Max voltage 480V | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Max voltage 600V | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Max voltage 690V | ● > 280A | | | | | ● >280A | ● >280A | ●>280A | | | ● | ● | ● |
| | Single phase | ● | ● | ● | | | ● | | | | | ● | | |
| | 3 phase load star no neutral or delta | | | | ● | ● | | ● | ● | ● | ● | | ● | ● |
| | 3 phase load star with neutral | | | | | ● | | | ● | | ● | | | ● |
| | 3 phase load open delta | ● | | | | ● | | | ● | | ● | | | ● |
| INPUT TYPE | SSR 4:30VDC | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 4:20 mA | ● | | 0 | 0 | 0 | ● | ● | ● | ● | ● | ● | ● | ● |
| | 0:10 Vdc | ● | | 0 | 0 | 0 | ● | ● | ● | ● | ● | ● | ● | ● |
| | 10K potentiometer | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | Communication command | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| FIRING | Zero crossing | | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | |
| | Single cycle | | | | | | ● | | | | | ● | | |
| | Burst firing | | | 0 (4) | 0 (4) | 0 (4) | ● | ● | ● | ● | ● | ● | ● | ● |
| | Soft start + burst firing | | | | | | ● | | | | ● | ● | | ● |
| | Phase angle | ● | | | | | ● | | | | ● | ● | | ● |
| | Soft start + phase angle | ● | | | | | ● | | | | ● | ● | | ● |
| | Delayed triggering + burst firing | ● | | | | | ● | | | ● | ● | ● | ● | ● |
| CONTROL MODE | Voltage | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | Square voltage | ● | | | | | ● | | | | | ● | | ● |
| | Current | ● | | | | | ● | | | | ● | ● | | ● |
| | Voltage X current (power) | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | Voltage to power transfer | ● | | | | | ● | | | | ● | ● | | ● |
| | External control mode | | | | | | | | | | ● | ● | | ● |
| | Temperature controller | | | | | | | | | | | | | |
| OPTION | Internal current limit | ● (1) | | | | | | | | | ● (1) | ● (1) | | ● (1) |
| | Heater break + thyristor short circuit | ● | O | O | O | O | O | O | O | ● | ● | ● | ● | ● |
| | Integrated fixed fuses | ● > 40A | > 40A | ● > 40A | ● > 40A | ● > 40A | ● > 40A | ● > 40A | ● > 40A | ● | ● | ● | ● | ● |
| | Fuse & fuse holder | =< 40A | =< 40A | =< 40A | =< 40A | =< 40A | =< 40A | =< 40A | =< 40A | | | | | |
| | Flat wiring terminal | | O (2) | O (2) | O (2) | O (2) | O | | | | | | | |
| COM. | RS485 with modbus protocol | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | Profibus DP; can open ethernet | 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Frontal key pad | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | PC programmable + USB\TTL conv. | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| | Relay easy | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| CURRENT | CURRENT | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE | SIZE |
| | 25 | | | | | | | | | S9 | S9 | | | |
| | 30 | | SR0.SR1 | SR3.SR6 | SR4.SR7 | SR5.SR8 | | SR10 | SR11 | | | | | |
| | 35 | SR9 | | SR3.SR6 | SR4.SR7 | SR5.SR8 | SR9 | SR10 | SR11 | S9 | S9 | | | S13 |
| | 40 | SR9 | | SR3.SR6 | SR4.SR7 | SR5.SR8 | SR9 | SR10 | SR11 | | | | | |
| | 45 | | | | | | | | | S9 | S9 | | S13 | S13 |
| | 60 | SR15 | | SR12 | SR12 | SR13 | SR15 | SR16 | SR16 | | | | | |
| | 75 | | | | | | | | | S9 | S9 | | S13 | S13 |
| | 90 | SR15 | | SR12 | SR12 | SR13 | SR15 | SR16 | SR16 | | | | | |
| | 100 | | | | | | | | | S9 | S11 | | S13 | S13 |
| | 120 | SR15 | | SR12 | SR13 | SR14 | SR15 | SR16 | SR17 | | | | | |
| | 125 | | | | | | | | | S9 | S11 | | S13 | S13 |
| | 150 | SR15 | | SR12 | SR13 | SR14 | SR15 | SR16 | SR17 | S9 | S11 | | S13 | S13 |
| | 180 | SR15 | | SR12 | SR13 | SR14 | SR15 | SR16 | SR17 | | | | | |
| | 200 | | | | | | | | | S10 | | | | |
| | 210 | SR15 | | SR12 | SR13 | SR14 | SR15 | SR16 | SR17 | | | | | |
| | 225 | | | | | S13 | | | S13 | | | | S13 | S13 |
| | 280 | S9 | | S9 | S10 | | S9 | S10 | | S14 | S13 | | | |
| | 300 | | | | | S14 | | | S14 | | S14 | | S14 | S14 |
| | 350 | | | | | S14 | | | S14 | S14 | S14 | | | S14 |
| | 400 | S12 | | S12 | S14 | S14 | S12 | S14 | S14 | S14 | S14 | | S14 | S14 |
| | 450 | | | | S14 | S14 | | S14 | S14 | S14 | S14 | | S14 | S14 |
| | 500 | S12 | | S12 | S14 | S14 | S12 | S14 | S14 | S14 | S14 | | S14 | S14 |
| | 600 | S12 | | S12 | S14 | | S12 | S14 | | S14 | | | S14 | S14 |
| | 700 | S12 | | S12 | S14 | | S12 | S14 | | | | | | |
| | 850 | | | | | | | | | | | S14 | S14 | S15 |
| | 1000 | | | | | | | | | | | S18 | S16 | S22 |
| | 1400 | | | | | | | | | | | S19 | S17 | S25 |
| | 1500 | | | | | | | | | | | S19 | S17 | S25 |
| | 1850 | | | | | | | | | | | S20 | S23 | S26 |
| | 2000 | | | | | | | | | | | S20 | S23 | S26 |
| | 2400 | | | | | | | | | | | S21 | S24 | S27 |
| | 2700 | | | | | | | | | | | S21 | S24 | S27 |

● Standard  O Option  (1) Phase Angle only  (2) Flat wiring available as option ≤ 45A  (4) 4-8-16 Cycles Simplified Burst Firing available with Analog Input only

WEST Control Solutions

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For detailed product information and to download the brochure please visit our website at www.West-CS.co.uk.

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