



H16WD Series

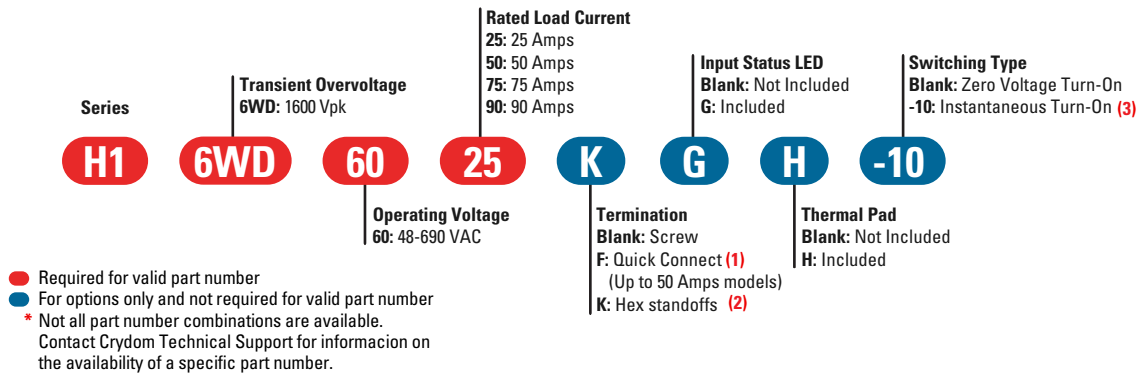
- Ratings from 25A to 90A @ 48-690 VAC
- 1600 Volts Blocking
- SCR output for heavy industrial loads
- Zero voltage or instantaneous turn-on outputs
- UL/CSA/VDE Approved, CE Compliant to EN60950-1
- Improved SEMS screw and washer
- Redesigned housing with anti-rotation barriers
- DC control
- Direct Bond Copper substrate
- EMC Compliant to Level 3
- Direct Power Lead Frame
- Epoxy Free Design

For **Generation 3** datasheet [click here](#)

PRODUCT SELECTION

| Control Voltage | 25A | 50A | 75A | 90A |
|-----------------|-----------|-----------|-----------|-----------|
| 4-32 Vdc | H16WD6025 | H16WD6050 | H16WD6075 | H16WD6090 |

AVAILABLE OPTIONS



OUTPUT SPECIFICATIONS ⁽⁴⁾

| Description | 25A | 50A | 75A | 90A |
|--|-----------|-----------|-----------|-----------|
| Operating Voltage (47-440Hz) [Vrms] | 48-690 | 48-690 | 48-690 | 48-690 |
| Transient Overvoltage [Vpk] | 1600 | 1600 | 1600 | 1600 |
| Rated Load Current [Arms] (5)(2) | 25 | 50 | 75 | 90 |
| Rated Load Current {UL508 Motor Controller} [Arms] (5) | 10 | 20 | 30 | 45 |
| Minimum Load Current [mArms] | 150 | 150 | 150 | 150 |
| Maximum Off-State Leakage Current @ Rated Voltage [mArms] | 1.0 | 1.0 | 1.0 | 1.0 |
| Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] | 500 | 500 | 500 | 500 |
| Maximum 1 Cycle Surge Current (50/60Hz) [Apk] | 239/250 | 597/625 | 954/1000 | 1145/1200 |
| Maximum I ² t for Fusing (50/60Hz) [A ² sec] | 285/259 | 1779/1621 | 4555/4150 | 6560/5976 |
| Thermal Resistance Junction to Case [Rjc] [°C/W] | 0.8 | 0.45 | 0.3 | 0.27 |
| Maximum On-State Voltage Drop @ Rated Current [Vrms] | 1.3 | 1.3 | 1.2 | 1.2 |
| HP rating UL 508/IEC60947[HP (KW)]: 240 VAC | 1.5 (1.1) | 3 (2.2) | 5 (3.7) | 7.5 (5.6) |
| HP rating UL 508/IEC60947[HP (KW)]: 380 VAC | 2 (1.5) | 5 (3.7) | 7.5 (5.6) | 15 (11.2) |
| HP rating UL 508/IEC60947[HP (KW)]: 480 VAC | 3 (2.2) | 5 (3.7) | 10 (7.4) | 20 (14.9) |
| HP rating UL 508/IEC60947[HP (KW)]: 600 VAC | 3 (2.2) | 10 (7.4) | 15 (11.2) | 25 (18.6) |
| Minimum Power Factor (at Maximum Load) | 0.5 | 0.5 | 0.5 | 0.5 |