| | |
|---|---|
| A1P | : Printed circuit board (Main) |
| A2P | : Printed circuit board (Sub) |
| A3P | : Printed circuit board (Noise filter) |
| A4P | : Printed circuit board (inv. for comp) |
| A5P | : Printed circuit board (Inv. for fan) |
| A6P | : Printed circuit board (Power input) (Option) |
| A7P, A8P | : Printed circuit board (current sensor) |
| A9P | : Printed circuit board (Inv. for fan) |
| A10P | : Printed circuit board (Earth leakage detector) |
| BS1~BS5 | : Push button switch (Mode, set, return, test, reset) |
| C1 | : Capacitor |
| C32, C66 | : Capacitor |
| DS1, DS2 | : Dip switch (A1P, A2P) |
| F1U, F2U | : Fuse (T, 3.15A, 250V) (A1P, A2P) |
| F3U, F4U | : Fuse (T, 1A, 250V) (A1P, A2P) |
| F101U | : Fuse (A5P, A9P) |
| F400U | : Fuse (T, 6.3A, 250V) (A3P) |
| H1P~H8P | : Pilotlamp (service monitor - orange)<br>: [H2P ]Prepare test ---------- Flickering<br>: Malfunction detection--- Light up |
| HAP | : Pilot lamp (Service monitor-green) (A1P, A2P) |
| V1CP | : Safety devices input (A1P, A2P) |
| K1M, K2M | : Magnetic contactor (M1C) (A4P) |
| K4M | : Magnetic contactor (M1C) (A3P) |
| K2M | : Magnetic contactor (M2C) (A1P) |
| K3M | : Magnetic contactor (M3C) (A2P) |
| K1R | : Magnetic relay (K2M) (A1P) |
| K1R | : Magnetic relay (K3M) (A2P) |
| K3R | : Magnetic relay (Y6S) (A1P) |
| K4R | : Magnetic relay (Y2R) (A1P) |
| K5R | : Magnetic relay (Y1R) (A1P) |
| K6R | : Magnetic relay (Y3R) (A1P) |
| K7R | : Caution output (A2P) |
| K9R | : Warning output (A2P) |
| K10R | : Magnetic relay (Operating output) (A1P) |
| K11R | : Magnetic relay (Y1S) (A1P) |
| RY1 | : Magnetic relay (A10P) |
| L1R | : Reactor (A4P) |
| M1C | : Motor (Compressor (Inv)) |
| M2C, M3C | : Motor (Compressor (Std)) |
| M1F, M2F | : Motor (fan) |
| PS | : Switching power supply (A1P, A2P, A4P) |
| Q1RP | : Phase reversal detect circuit (A1P, A2P) |

| | |
|---|---|
| R24 | : Resistor (current sensor) (A5P, A9P) |
| R1, R3 | : Resistor (A4P) |
| R78 | : Resistor (current limiting) (A4P) |
| R1T | : Thermistor (air) (A1P) |
| R21T | : Thermistor (Suction) (A1P) |
| R22T | : Thermistor (Suction) (A1P) |
| R31T~R33T | : Thermistor (M1C, M2C, M3C Discharge) (A1P) |
| R4T | : Thermistor (Middle inj) (A1P) |
| R6T | : Thermistor (Fin) (A1P) |
| S1NPH1 | : Pressure sensor (High) (A1P) |
| S1NPL1 | : Pressure sensor (Low) (A1P) |
| S1NPH2 | : Pressure sensor (Middle) (A2P) |
| S1NPL2 | : Pressure sensor (Low) (A2P) |
| S1PH, S2PH | : Pressure switch (High) (A1P) |
| S3PH | : Pressure switch (High) (A2P) |
| S1PL | : Pressure switch (Low) (A1P) |
| S1S | : Operation switch (remote/Off/On) |
| T1A | : current sensor (A7P, A8P) |
| T2A | : current sensor (A10P) |
| V1R | : Power module (A4P, A5P, A9P) |
| V1R | : Diode bridge (A4P) |
| X1A~X4A | : Connector (M1F, M2F) |
| X5A | : Connector (In-Out(Main-Sub)) |
| X6A | : Connector (Power supply) |
| X7A | : Connector (Power supply) |
| X1M | : Terminal block (Power supply) |
| X1M | : Terminal block (Control) (A1P, A2P) |
| X1M | : Terminal block (Operating input) (A6P) |
| X2M | : Terminal block (Operating output) |
| X3M | : Terminal block (Remote switch) |
| X4M | : Terminal block (Warning output) |
| X5M | : Terminal block (Power supply) |
| X6M | : Terminal block (Low noise mode input) |
| Y1E | : Electronic expansion valve (Main) |
| Y2E | : Electronic expansion valve (Liquid) |
| Y3E | : Electronic expansion valve (oil (inv)) |
| Y4E | : Electronic expansion valve (oil (non1)) |
| Y5E | : Electronic expansion valve (oil (non2)) |
| Y1R | : 4-way valve (Main) |
| Y2R | : 4-way valve (Sub) |
| Y3R | : 4-way valve (Suction) |
| Y1S | : Solenoid valve (Liquid) |
| Y6S | : Solenoid valve (Gas) |
| Z1C~Z12C | : Noise filter (Ferrite core) |
| Z1F | : Noise filter (with surge absorber) (A3P) |

## Notes:

1. This wiring diagram only applies to the outdoor unit.
2. : Field wiring
3. : Terminal block : Connector
   : Terminal : Protective earth (screw)
4. Initial setting is "OFF". Set "ON" or "REMOTE" to operate.
   Use dry contact for micro-current to use the remote switch (1mA or less, DC 12V)
   Refer to the technical data for how to use the remote switch.
5. RY1 point contact is open before turning on power supply
   Refer to technical guide for the operation timing diagram
6. Refer to the technical data for how to use BS1~5, DS1 & DS2 switch.
7. When operating, don't shorcircuit the protection device (S1PH ~ S3PH, S1PL)
8. Be noted that the capacity of contact is AC220-240V, 110-120VA (Total of caution output, warning output)
9. Be noted that the capacity of contact is AC220-240V, 110-120VA (Operating output (Refrigeration))
10. Colours: BLK: Black / RED: Red / BLU: Blue / WHT: White / GRN: Green