Digital 3 Phase Voltage Relay





DSP-DVR

DSP-DVR-M

8Pin Socket Installation

DSP-DVR, DVR-M

Main Features

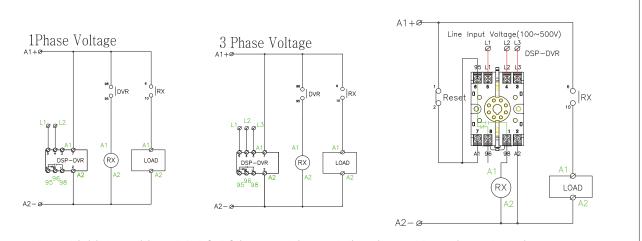
■ Easy Installation: 8 Pin Socket

- Operation based on direct line voltage detection
 - Protection: Over/Under voltage, Phase Loss, Reverse Phase, Voltage Unbalance
 - Indication: Voltage[Line/Average], Frequency
- Time-Voltage operational characteristic → Definite / Inverse
- Rated Line Voltage → 100 ~ 500VAC
- Over/Under Voltage protection within (+), (-) 20% to line voltage
- Possible to preset operation time for over/under voltage each, respectively
- Perfect check for initial line state
- a)"dt"(trip delay time) mode is preset "OFF"
 - Preset "a" in "out" mode: Main trip output(95–98) is energized (Open → Close) in case the rated line voltage
 with normal forward phase state is sensed initially
 - Main trip output(95-98) is trip as showing a trip cause if the initial line state is under over/under voltage, reverse phase, voltage unbalance
 - · v.OFF is shown in case the line voltage is not sensed initially or voltage is dropped to zero(0) while the normal operation is doing
 - Preset "b" in "out" mode: Main trip output(95-98) is not energized (Open → Open) in case the rated line voltage
 with normal forward phase state is sensed initially

b)"dt"(trip delay time) mode is preset a value(time)

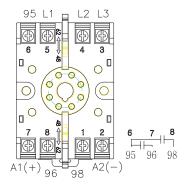
- Preset "a" in "out" mode: Main trip output(95-98) is energized (Open → Close) after "dt" is elapsed in case the rated line voltage with normal forward phase state is sensed initially
- Main trip output(95–98) is still opened(not trip) even after "dt" is elapsed if the initial state is under phase loss, also "PL' is shown
- "rP" is shown as main trip output(97–98) is still opened(not trip) after operational trip time(0.5sec) without concerning with "dt" if reverse state is sensed initially
- Trip cause is shown by characters and/or numbers
 - 4 Digit Window/DVR Type
 5 Digit Window/DVR-M Type
- 3 phase line voltage / average voltage and / or frequency is shown ordery every 3sec
- Alarm history, latest 8 trip events Reset after a trip: auto or manual
- Self-diagnostics to check if this relay is ready to work or not

Application Sequence Diagram



* Normal initial condition: L1-L2-L3 is normal forward direction and Incoming voltage is ranged within suitable value between under/over voltage preset, then trip output 97-98 will keep closed state

^{*} Note Output trip relay (95-96-98 / 1c,C-R-M(2a) of DSP is rated 3A / resistive,so it is required that aux relay with of sufficient rating to operate a large capacity of contactor should be matched with DSP output.



Order Form

No.	Feature	Description
1	Туре	DSP-DVR: Panel Mounting Type DSP-DVR-M: Panel Flush Mounting Type
2	Control Power	•B:DC24V •Z7:85~260VAC,50/60Hz(90~370VDC)
3	Socket	• NIL: 8 pin socket is not included • 8P: 8 pin socket is included
e.g.	DSP-DVR-M-8P	Panel Flush Mounting Type, Line voltage/100 \sim 500VAC, control power/85 \sim 260VAC, 50/60Hz (90 \sim 370VDC), 8Pin socket

