

240 VAC, 25 Amp, DC Control Solid State Relay (SSR), VDE-Approved Optocoupler



240D25-17

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ALL

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120/240 Volt Solid State Relays

Optical Isolation Input to Output	4,000 V
Turn-on Voltage	Zero

240D45-17 240Di45 380D45 480D45-12 575D45-12 575Di45-12	Turn-on Time	½ cycle maximum
	Turn-off Time	½ cycle maximum
	Operating Frequency	25 to 65 Hz (operates at 400 Hz with six times off-state leakage)
	Coupling Capacitance Input to Output	8 pF maximum
	DV/DT Off-state	200 volts per microsecond
	DV/DT Commutating	Snubbed for rated current at 0.5 power factor

	120D3	120D10	120D25	120D45	240D3	240D10	240D25	240D45
Nominal AC Line Voltage	120	120	120	120	240	240	240	240
Nominal Current Rating (Amps)	3	10	25	45	3	10	25	45
1 cycle Surge (Amps) Peak	85	110	250	650	85	110	250	650
Nominal Signal Input Resistance (Ohms)	1000	1000	1000	1000	1000	1000	1000	1000

Signal Pick-up Voltage	3VDC (32V allowed)	3VDC (32V allowed)	3VDC (32V allowed)	3VDC (32V allowed)	3VDC (32V allowed)	3VDC (32V allowed)	3VDC (32V allowed)	3VDC (32V allowed)
Signal Drop-out Voltage	1 VDC	1 VDC	1 VDC	1 VDC	1 VDC	1 VDC	1 VDC	1 VDC
Peak Repetitive Voltage Maximum	600	600	600	600	600	600	600	600
Maximum Output Voltage Drop	1.6 volts	1.6 volts	1.6 volts	1.6 volts	1.6 volts	1.6 volts	1.6 volts	1.6 volts
Off-State Leakage (mA) Maximum	2.5mA	7 mA	7 mA	7 mA	5 mA	14 mA	14 mA	14 mA
Operating Voltage Range (Volts AC)	12-140	12-140	12-140	12-140	24-280	24-280	24-280	24-280
I ² t Rating t=8.3 (ms)	30	50	250	1750	30	50	250	1750
Isolation Voltage	4,000V _{RMS}	4,000V _{RMS}	4,000V _{RMS}	4,000V _{RMS}	4,000V _{RMS}	4,000V _{RMS}	4,000V _{RMS}	4,000V _{RMS}
θ _{jc} * (°C/Watt)	11	1.3	1.2	0.67	11	1.3	1.2	0.67

Dissipation (Watts/ Amp)	1.7	1.6	1.3	0.9	1.7	1.6	1.3	0.9
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Notes: θ_{jc}^* = Thermal resistance junction to base. Maximum junction temperature is 110 °C.

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