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240 VAC, 45 Amp, DC Control Solid State Relay (SSR), VDE-Approved Optocoupler



240D45-17

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120/240 Volt Solid State Relays

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

	<b>120D3</b>	<b>120D10</b>	<b>120D25</b>	<b>120D45</b>	<b>240D3</b>	<b>240D10</b>	<b>240D25</b>	<b>240D45</b>
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 <sup>2</sup> t Rating t=8.3 (ms)	30	50	250	1750	30	50	250	1750
Isolation Voltage	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>	4,000V <sub>RMS</sub>
θ <sub>jc</sub> * (°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