Series C3P24D25C

Three-Phase Output to 25A 280 Vac DC Control



C3P24D25				
CONTROL 4-30VDC + -	OUTP PHASE 1 1 2	UT 24-280VA0 PHASE 2 1 2	D/25A PHASE 3 1 2	P 3
11	TT.	YT	Π	

FEATURES/BENEFITS

- Three-phase solid state relay in a compact SIP package
- High-temperature plastic housing for mechanical ruggedness
- Tight zero-cross window for low EMI
- Exposed ceramic baseplate for reduced thermal resistance

DESCRIPTION

The Series C3P three-phase AC solid-state relays are designed to control medium amounts of power in threephase applications. Optical isolation ensures complete protection of the C3P's control circuit from load transients. The C3P's compact plastic housing provides a low-cost alternative to large metallic threephase contactors. The C3P is designed with heatsinking in mind. The ceramic baseplate provides excellent thermal performance. The relay's tight zero-cross window greatly reduces EMI.

APPLICATIONS

- Heating control
- HVAC controls
- Light/Lamp control
- Three-phase AC loads



CONTROL CHARACTERISTIC

Series C3P24D25C

Three-Phase Output to 25A 280 Vac DC Control



οι	JTPL	JT (I	OAD)	SPECIF	ICATION
00		, i (i	_0/,0/,	JILCII	

	Min	Max	Units		
Operating Range	24	280	Vrms		
Peak Voltage		600	Vpeak		
Load Current Range	.05	25	Arms		
(See Figure 4)					
Maximum Surge Current Rating (Non-Repetitive)					
(See Figure 5)		250	А		
On-State Voltage Drop	0.81 + (0.	018 x l)	V		
Zero-Cross Window (Typical)		±12	V		
Off-State Leakage Current (6	0 Hz)	1	mA		
Turn-On Time		8.3	ms		
Turn-Off Time		8.3	ms		
Off-State dv/dt		500	V/µs		
Operating Frequency Range	47	2000(*)	Hz		
I ² t for Match Fusing (<8.3 ms)	260	A ² S		
Thermal Resistance (One phase) R _{thi} /c					
Junction-Case		0.85	°C/W		

ENVIRONMENTAL SPECIFICATION

	Min	Max	Units
Operating Temperature	-40	100	°C
Storage Temperature	-55	100	°C
Input-Ouput Isolation	2500		Vi
Output-Case Isolation	2500		Vi
Rated Impulse Voltage	2500		V



2. See figure 6 for output protection recommendation

3. For additional/custom options, contact factory





An external Voltage Dependent Resistor (VDR) is recommended in case of voltage spike.

NOTES

Power Dissipation (W)

(*) Relay built with back-to-back thyristors and high performance optocouplers. Relays have been tested at Teledyne Relays with frequencies higher than 2000 Hz on a resistive load. For other loads the user will have to check functionality in final application.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Solid State Relays - PCB Mount category:

Click to view products by Teledyne manufacturer:

Other Similar products are found below :

M86F-2W M90F-2Y G2-1A07-ST G2-1A07-TT G2-1B02-TT G2-DA06-ST 923812OCAS PLA134S DS11-1005 AQH3213J AQV212J AQY412EHAJ EFR1200480A150 901-7 LCA220 LCB110S 1618400-5 SR75-1ST AQH2213AJ AQV112KLJ AQV212AJ AQV212SXJ AQV238AD01 AQW414TS AQY221N2SYD01 AQY221R2VJ AQY275AXJ AQY414SXE01 G2-1A02-ST G2-1A03-ST G2-1A03-TT G2-1A05-ST G2-1A06-TT G2-1A23-TT G2-1B01-ST G2-1B01-TT G2-1B02-ST G2-DA03-ST G2-DA03-TT G2-DA06-TT CPC1333GR 3-1617776-2 CTA2425 TLP3131(F) LBA110S LBB110S LCA110LSTR LCB126S WPPM-0626D WPPM-3526D