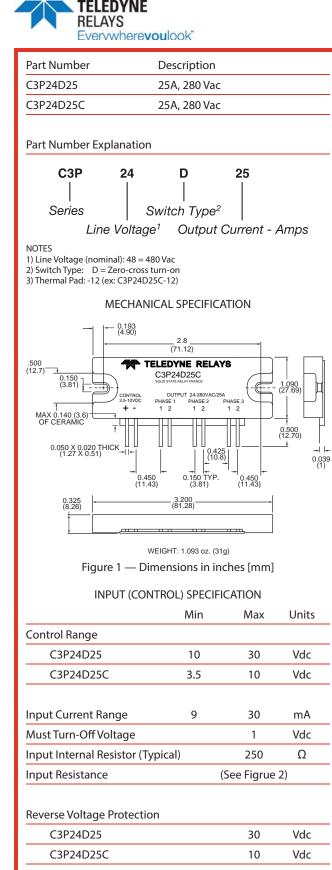
## Series C3P24D25C

Three-Phase Output to 25A 280 Vac DC Control



	A.	TELEDYNE RELA C3P24D25 SOLD STATE RELAY FRANCE		(EC	
	CONTROL 4-30VDC + -		PUT 24-280VAC PHASE 2 1 2		P3
-	TY	TT		TT	-

#### FEATURES/BENEFITS

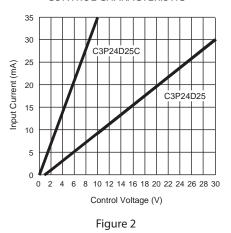
- Three-phase solid state relay in a compact SIP package
- High-temperature plastic housing for mechanical ruggedness
- Tight zero-cross window for low EMI
- Exposed ceramic baseplate for reduced thermal resistance

#### 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

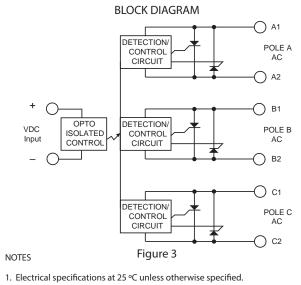
Three-Phase Output to 25A 280 Vac DC Control



	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 + (0.0	018 x l)	V			
Zero-Cross Window (Typical)		±12	V			
Off-State Leakage Current (6			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 <sup>2</sup> t for Match Fusing (<8.3 ms)	)	260	A <sup>2</sup> S			
Thermal Resistance (One phase) R <sub>thi</sub> /c						
Junction-Case	-	0.85	°C/W			

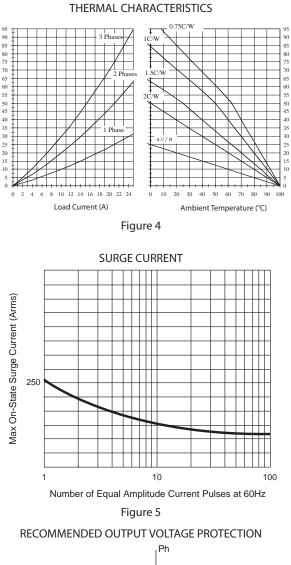
### ENVIRONMENTAL SPECIFICATION

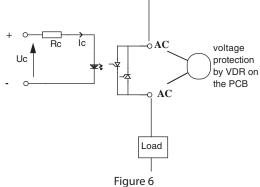
	Min	Max	Units
Operating Temperature	-40	100	°C
Storage Temperature	-55	100	°C
Input-Ouput Isolation	2500		Vi
Output-Case Isolation	2500		Vi
Rated Impulse Voltage	2500		V



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 - Industrial Mount category:

Click to view products by Teledyne manufacturer:

Other Similar products are found below :

6225XXASRS-DC3 D2440-C H10CA4890 D4875C D53TP50DH-10 1395831-1 1616010-6 BR312BY A-1326 AQY210SXE01 AQY221N2SYD01 AQY414SXE01 26532764 H10CA4850 H12CA4890VL RA2410-D06 D1202F D53TP50-10 W230E-1-12 W230T-3-12 W6125ASX-1 W6225DSX-2 W6240DSX-4 W6240DTX-2 1-1617030-3 1-1617033-9 1-1617033-7 MS2-D2420 MS2-D2430 A-1440 4-1617080-0 RJ1P60V50E RN1F48I50 70.362.1028.0 7-1393030-8 Z5.509.0828.0 W230E-2-5 G3RV-SR700-D AC110 G3RV-SR500-AL AC100 G3RV-SR500-D ACDC24 G3RV-SR500-AL ACDC24 G3RV-SR700-D ACDC24 G3RV-SR700-AL ACDC24 G3RV-SR500-D DC12 G3RV-SR700-A ACDC24 G3RV-SR500-A ACDC24 2912138 2912141 SSRDAC10 CSW2425FG