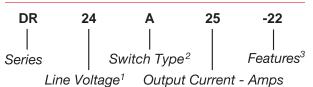


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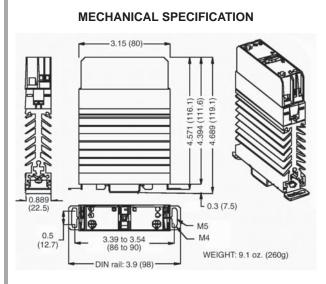
Part Number	Description
DR24D25	25A 275 Vac Output
DR24A25	25A 275 Vac Output
DR24A25-22	25A 275 Vac Output
DR48D25-21	25A 480 Vac Output
DR48D25	25A 510 Vac Output
DR48R25	25A 510 Vac Output
DR48A25	25A 510 Vac Output
DR48A25-22	25A 510 Vac Output
DR48D30	30A 510 Vac Output

Part Number Explanation



NOTES

- 1) Line Voltage (nominal): 24 = 240 Vac; 48 = 480Vac
- Switch Type: D = Zero-cross turn-on; A = Zero-cross, AC control; R = Random turn-on
- 3) Features: 21 = self turn-on suppression; 22 = 24 Vac control





NEW Series DR

Single Output to 30A 510 Vac DIN-Rail Solid-State Relay



FEATURES/BENEFITS

- Mounting and dismounting on DIN rail without any tool or directly mountable on panel
- Zero-cross and random models; thyristors output
- Large control range
- Green control LED
- Very high immunity
- · Low leakage current
- Internal transient suppression

DESCRIPTION

The Series DR single-phase DIN-rail relays are designed for all types of loads. The relays utilize optical isolation to protect the control from load transients. DR relays have an integral heat sink, and can be mounted and dismounted onto a DIN rail without any tools. The relays may also be panel mounted. All relays offer a green control LED and transient suppression.

APPLICATIONS

- Heating control
- Motor control
- · Industrial and process control

APPROVALS

Series DR relays are pending UL recognition.

TYPICAL APPLICATION

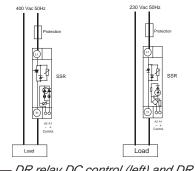
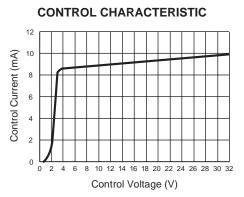
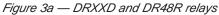


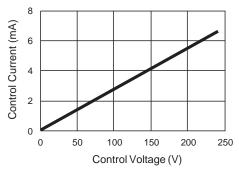
Figure 2 — DR relay DC control (left) and DR relay AC control (right)



Series DR









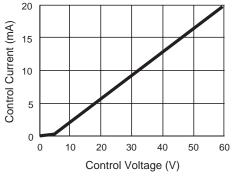
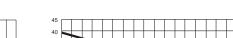
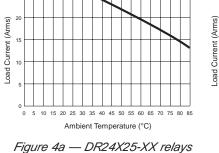


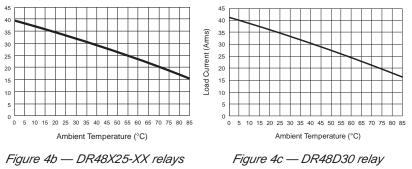
Figure 3c — DRXXA25-22 relays

	Min	Max	Units
Control Range			
DR24D25	3	32	Vdc
DR48R25	3.5	32	Vdc
DR48D25	3.5	32	Vdc
DR48D30	3.5	32	Vdc
DR48D25-21	3	32	Vdc
DRXXA25-22	17	60	Vac/dc
DRXXA25	150	240	Vac/dc
Control Current Range			
DRXXDXX		10	mAdc
DR48R25		10	mAdc
DRXXA25	3	7	mA
DRXXA25-22	3	20	mA
Must Turn-Off Voltage	1		
DR24D25	1		V
DD24425	4		17
DR24A25	1		V
DR24A25-22	4		V
DR24A25-22 DR48D25-21	4		V V
DR24A25-22 DR48D25-21 DR48R25	4 1 2		V V V
DR24A25-22 DR48D25-21 DR48R25 DR48D25	4 1 2 2		V V V V
DR24A25-22 DR48D25-21 DR48R25 DR48D25 DR48A25 DR48A25	4 1 2 2 15		V V V V V
DR24A25-22 DR48D25-21 DR48R25 DR48D25 DR48D25 DR48A25 DR48A25-22	4 1 2 2 15 4		V V V V V V
DR24A25-22 DR48D25-21 DR48R25 DR48D25 DR48A25 DR48A25	4 1 2 2 15		V V V V V
DR24A25-22 DR48D25-21 DR48R25 DR48D25 DR48D25 DR48A25 DR48A25-22	4 1 2 2 15 4 2	32	V V V V V V
DR24A25-22 DR48D25-21 DR48R25 DR48D25 DR48A25 DR48A25 DR48A25-22 DR48D30	4 1 2 2 15 4 2 0 00000000000000000000000000000000	32	V V V V V V V





THERMAL CHARACTERISTICS



25

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Series DR

OUTPUT (LOAD) SPECIFICATION			
	Min	Max	Unit
Operating Range			
DR24	12	275	Vrms
DR48D25-21	12	480	Vrms
DR48	24	510	Vrms
Peak Voltage			
DR24		600	Vpeak
DR48		1200	Vpeak
Clamping Voltage			
DR24 (@1mA)		430	V
DR48D25-21 (ON v	voltage, typical)	950	V
DR48 (@1mA)		820	V
Load Current Range (Se	ee Figure 4)		
DRXXX25-XX	.005	25	Arms
DR48D30	.005	30	Arms
Zero-Cross Window (Ty	pical)	- 10	
DR24		10	V
DR48D25-21		10	V
DR48R25	H	Random	
DR48D25		20	V
DR48A25		20	V
DR48A25-22		20	V
DR48D30		20	V
Non-Repetitive Overload	d Current (See F	Figure 5)
DR24		250	А
DR48X25		550	А
DR48D30		1000	А
On-State Voltage Drop ((Typical)		
DR24		0.85	V
DR48X25		0.9	V
DR48D30		0.75	V
Output Power Dissipation	on (Typical)		
DR24	0.9xl+0.015xl ²		W
DR48X25	0.81xl+0.08xl ²		W
DR48D30	0.7xl+0.08xl ²		W

OUTPUT (LOAD) SPECIFICATION (Continued)		
Min	Max	Unit
Thermal Resistance (Junction to Air)		
DR24	3.8	°C/W
DR48X25	3.3	°C/W
DR48D30	3.2	°C/W
Off-State Leakage Current (60Hz)	1	mA
Turn-On Time (60Hz)		
DRXXD	8.3	ms
DRXXA	24.9	ms
DR48R25	0.1	ms
Turn-Off Time (60Hz)		
DRXXD	8.3	ms
DRXXA	24.9	ms
DR48R25	8.3	ms
Operating Frequency Range 0.1	440	Hz
Off-State dv/dt	500	V/μs
I ² t for match fusing (<8.3ms)		
DR24	312	A ² S
DR48X25	1500	A ² S
DR48D30	5000	A ² S

ENVIRONMENTAL SPECIFICATION

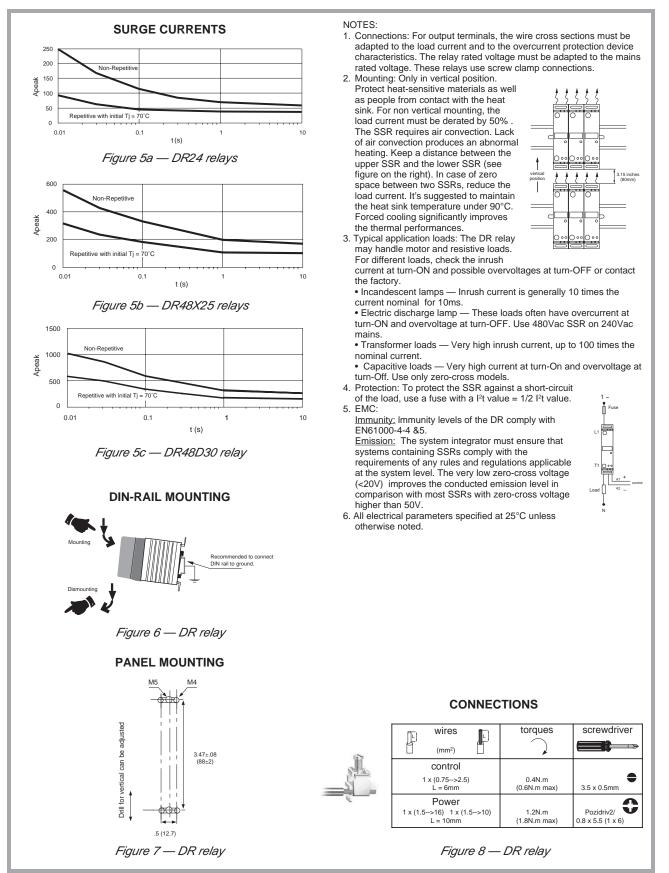
	Min	Max	Unit
Storage Temperature	-30	100	°C
Operating Temperature	-30	80	°C
Input-Output Isolation	4000		Vrms

Output-Case Isolation		
DR24	2500	Vrms
DR48	4000	Vrms
Insulation Resistance	100	MΩ
Rated Impulse Voltage	4000	V



A Unit of Teledyne Electronics and Communications

Series DR



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