

D-SERIES

Industrial relay modules

Digital signal processing

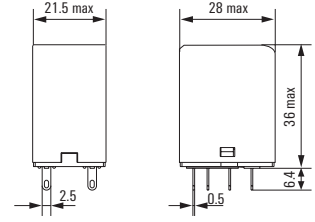


D-SERIES relay modules

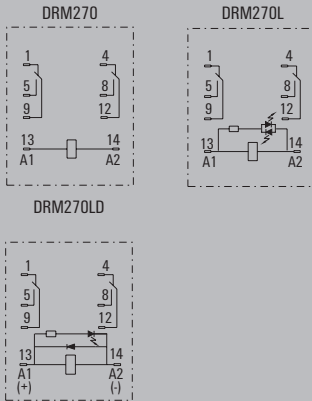
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DRM 270 Relay
2 CO, AC/DC coil

- Small size with high switching power
- Wide coil input voltage range
- Optional test lever (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional suppressor diode

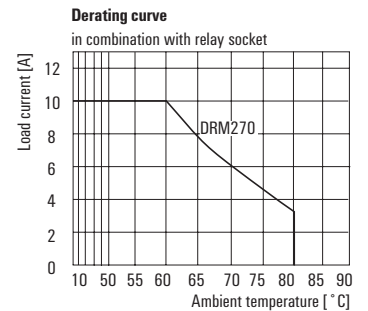
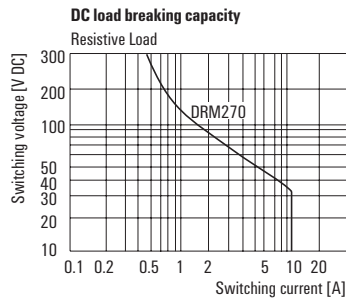
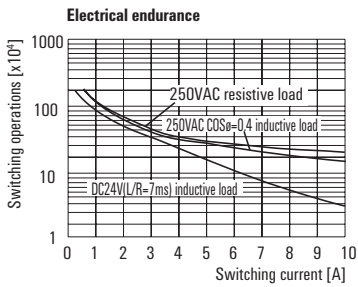


Circuit diagram



Output	
Continuous current / Max. switching voltage AC	10 A / 250 V AC
Max. switching power	2500 VA, 300 W
Contact resistance (initial)	≤ 50 mΩ
Min. switching power	12 V / 10 mA or 5 V / 1 mA (hard gold-plated contact)
Contact material	AgNi or AgNi 5µm Au
Electrical endurance / Mechanical endurance	> 25×10 ⁴ (1800 Ops/h) / > 2×10 ⁷ (18000 Ops/h)
Switch-on / switch-off delay at rated voltage	≤ 20 ms / ≤ 20 ms
Initial voltage between homopolar contacts / heteropolar contacts / input and output	2000 V AC/1 min / 1000 V AC/1 min / 2000 V AC/1 min (leakage current: 1 mA)
Input	
Response voltage @ 25 °C	DC: ≥ 75 % of rated voltage, AC: ≥ 80 % of rated voltage
Dropout voltage @ 25 °C	DC: ≥ 10 % of rated voltage, AC: ≥ 30 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Insulation resistance	≥ 1000 MΩ
Coil power consumption	DC: ≤ 0.9 W, AC: 1.2 VA
General	
Ambient temperature	DC: -40 °C...+60 °C, AC: -40 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Humidity	35 %~85 % RH
Atmospheric pressure	86-106 KPa
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm 10~55 Hz
Weight	35 g
Packing unit	20 pcs
Approvals	cURus, TÜV
Dimension	
Depth x Width x Height	mm 36 / 21.5 / 28
Plug-in connection	
Depth x Width x Height	mm 36 / 21.5 / 28
Note	

Applications



**DRM 270 Relay
2 CO AC/DC coil**

Type code		DRM					
Type	DRM						
Type of construction	270 2 change over contact						
Coil voltage	006	6 V DC / 012	12 V DC				
	024	24 V DC / 048	48 V DC				
	110	110 V DC / 220	220 V DC				
	524	24 V AC / 548	48 V AC				
	615	115 V AC / 730	230 V AC				
LED	L (Red for AC coil; green for DC coil)						
Test lever	T (Red for AC coil; green for DC coil)						
Suppressor diode	D						

Ordering data

Input	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
Rated current	75 mA	36.9 mA	18.5 mA	10 mA	5.2 mA
Coil resistance	160 Ω ±10 %	650 Ω ±10 %	2,600 Ω ±10 %	11,000 Ω ±10 %	44,000 Ω ±10 %
Response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Max. voltage	13.2 V	26.4 V	52.8 V	121.0 V	242 V
Power consumption	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W

Ordering data						
Standard	Type	DRM270012	DRM270024	DRM270048	DRM270110	DRM270220
	Order No.	7760056050	7760056051	7760056052	7760056053	7760056054
With LED	Type	DRM270012L	DRM270024L	DRM270048L	DRM270110L	DRM270220L
	Order No.	7760056059	7760056060	7760056061	7760056062	7760056063
With LED and test lever	Type	DRM270012LT	DRM270024LT	DRM270048LT	DRM270110LT	DRM270220LT
	Order No.	7760056068	7760056069	7760056070	7760056071	7760056072
With LED and suppressor diode	Type		DRM270024LD			
	Order No.		7760056077			
With LED, gold plated contact	Type		DRM270024L Au			
	Order No.		7760056183			
With LED and test lever, gold plated contact	Type		DRM270024LT Au			
	Order No.		7760056185			
Note						

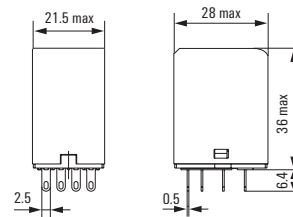
Ordering data

Input	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current (50 Hz / 60 Hz)	62.4 mA/52.2 mA	33.3 mA/27.8 mA	12.6 mA/10.8 mA	6.1 mA/5.2 mA
Coil resistance	160 Ω ±10 %	600 Ω ±10 %	3,750 Ω ±10 %	16,000 Ω ±10 %
Response / dropout voltage	19.2 V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Max. voltage	26.4 V	52.8 V	126.5 V	253 V
Power consumption	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)

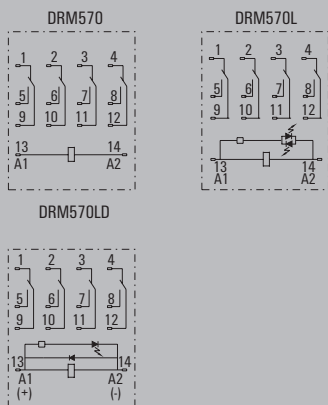
Ordering data					
Standard	Type	DRM270524	DRM270548	DRM270615	DRM270730
	Order No.	7760056055	7760056056	7760056057	7760056058
With LED	Type	DRM270524L	DRM270548L	DRM270615L	DRM270730L
	Order No.	7760056064	7760056065	7760056066	7760056067
With LED and test lever	Type	DRM270524LT	DRM270548LT	DRM270615LT	DRM270730LT
	Order No.	7760056073	7760056074	7760056075	7760056076
With LED, gold plated contact	Type				DRM270730L Au
	Order No.				7760056184
With LED and test lever, gold plated contact	Type				DRM270730LT Au
	Order No.				7760056186
Note					

DRM 570 Relay
4 CO AC/DC coil

- Small size with high switching power
- Wide coil input voltage range
- Optional test lever (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional suppressor diode

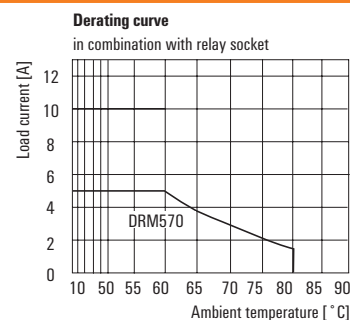
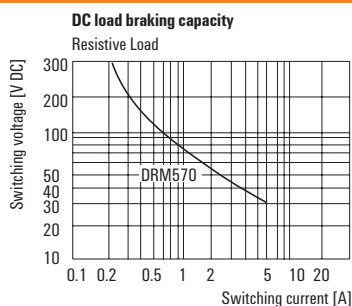
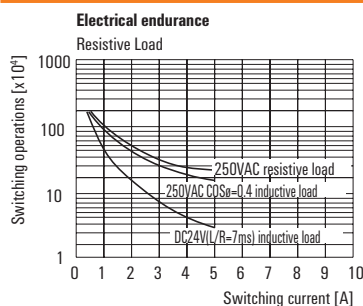


Circuit diagram



Output	
Continuous current / Max. switching voltage AC	10 A / 250 V AC
Max. switching power	2500 VA, 300 W
Contact resistance (initial)	≤ 50 mΩ
Min. switching power	12 V / 10 mA or 5 V / 1 mA (hard gold-plated contact)
Contact material	AgNi or AgNi 5µm Au
Electrical endurance / Mechanical endurance	> 25×10 ⁴ (1800 Ops/h) / > 2×10 ⁷ (18000 Ops/h)
Switch-on / switch-off delay at rated voltage	≤ 20 ms / ≤ 20 ms
Initial voltage between homopolar contacts / heteropolar contacts / input and output	2000 V AC/1 min / 1000 V AC/1 min / 2000 V AC/1 min (leakage current: 1 mA)
Input	
Response voltage @ 25 °C	DC: ≥ 75 % of rated voltage, AC: ≥ 80 % of rated voltage
Dropout voltage @ 25 °C	DC: ≥ 10 % of rated voltage, AC: ≥ 30 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Insulation resistance	≥ 1000 MΩ
Coil power consumption	DC: ≤ 0.9 W, AC: 1.2 VA
General	
Ambient temperature	DC: -40 °C...+60 °C, AC: -40 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Humidity	35 % ~ 85 % RH
Atmospheric pressure	86-106 KPa
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm 10~55 Hz
Weight	35 g
Packing unit	20 pcs
Approvals	cURus, TÜV
Dimension	
Depth x Width x Height	mm 36 / 21.5 / 28
Note	

Applications



**DRM 570 Relay
4 CO AC/DC coil**

Type code		DRM					
Type	DRM						
Type of construction	570 4 change over contact						
Coil voltage	006	6 V DC / 012	12 V DC				
	024	24 V DC / 048	48 V DC				
	110	110 V DC / 220	220 V DC				
	524	24 V AC / 548	48 V AC				
	615	115 V AC / 730	230 V AC				
LED	L (Red for AC coil; green for DC coil)						
Test lever	T (Red for AC coil; green for DC coil)						
Suppressor diode	D						

Ordering data

Input	12 V DC 4CO	24 V DC 4CO	48 V DC 4CO	110 V DC 4CO	220 V DC 4CO
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
Rated current (50 Hz / 60 Hz)	75 mA	36.9 mA	18.5 mA	10 mA	5.2 mA
Coil resistance	160 Ω ±10 %	630 Ω ±10 %	2,600 Ω ±10 %	11,000 Ω ±10 %	42,000 Ω ±10 %
Response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Max. voltage	13.2 V	26.4 V	52.8 V	121.0 V	242 V
Power consumption	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W

Ordering data						
Standard	Type	DRM570012	DRM570024	DRM570048	DRM570110	DRM570220
	Order No.	7760056078	7760056079	7760056080	7760056081	7760056082
With LED	Type	DRM570012L	DRM570024L	DRM570048L	DRM570110L	DRM570220L
	Order No.	7760056087	7760056088	7760056089	7760056090	7760056091
With LED and test lever	Type	DRM570012LT	DRM570024LT	DRM570048LT	DRM570110LT	DRM570220LT
	Order No.	7760056096	7760056097	7760056098	7760056099	7760056100
With LED and suppressor diode	Type		DRM570024LD			
	Order No.		7760056105			
With LED, gold plated contact	Type		DRM570024L Au			
	Order No.		7760056187			
With LED and test lever, gold plated contact	Type		DRM570024LT Au			
	Order No.		7760056189			
Note						

Ordering data

Input	24 V AC 4CO	48 V AC 4CO	115 V AC 4CO	230 V AC 4CO
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current (50 Hz / 60 Hz)	62.4 mA/52.2 mA	33.3 mA/27.8 mA	12.6 mA/10.8 mA	6.1 mA/5.2 mA
Coil resistance	160 Ω ±10 %	615 Ω ±10 %	4,340 Ω ±10 %	15,000 Ω ±10 %
Response / dropout voltage	19.2 V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Max. voltage	26.4 V	52.8 V	126.5 V	253 V
Power consumption	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)

Ordering data					
Standard	Type	DRM570524	DRM570548	DRM570615	DRM570730
	Order No.	7760056083	7760056084	7760056085	7760056086
With LED	Type	DRM570524L	DRM570548L	DRM570615L	DRM570730L
	Order No.	7760056092	7760056093	7760056094	7760056095
With LED and test lever	Type	DRM570524LT	DRM570548LT	DRM570615LT	DRM570730LT
	Order No.	7760056101	7760056102	7760056103	7760056104
With LED, gold plated contact	Type				DRM570730L Au
	Order No.				7760056188
With LED and test lever, gold plated contact	Type				DRM570730LT Au
	Order No.				7760056190
Note					

Accessories for DRM relays



Ordering data

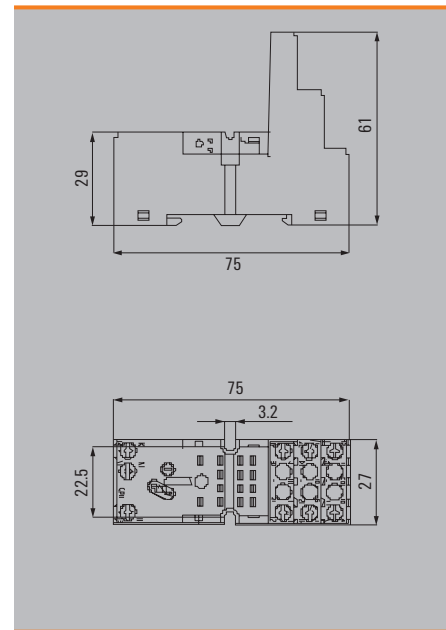
Technical data	
Rated current	2CO/4CO
Rated voltage	300 V AC
Dielectric strength for input - output	>4000 Vrms
Insulating material group (VDE 0110b)	C / 250 V AC
Ambient temperature	-40...+70 °C
Protection class	IP 20
Wire cross section / with wire end ferrule	2 x 2.5 mm ² / 2 x 1.5 mm ²
Max. torque	0.5 Nm / 0.8 Nm
Packing unit	10 pcs.
Description	
Socket, snaps onto DIN-rail, 2CO	
Socket, snaps onto DIN-rail, 4CO	

4 x 6 A, 2 x 12 A	
300 V AC	
>4000 Vrms	
C / 250 V AC	
-40...+70 °C	
IP 20	
2 x 2.5 mm ² / 2 x 1.5 mm ²	
0.5 Nm / 0.8 Nm	
10 pcs.	
Type	Order No.
SCM ECO 2CO	7760056263
SCM ECO 4CO	7760056264

Metal clip (recommended in applications with vibrations)

Type	Order No.
DRM clip M (for DRM relay)	7760056108

Dimensions in mm



Ordering data

Technical data	
Rated current	2CO/4CO
Rated voltage	300 V AC
Dielectric strength for input - output	2500 Vrms
Dielectric strength between the contacts	2500 Vrms
Max. torque	0.5 Nm/0.8 Nm
Wire cross section	0.5-2.5 mm ²
Ambient temperature (operational)	-40 °C...+70 °C
Weight	35 g/43 g
Packing unit	20 pcs
Description	
Socket, snaps onto DIN-rail, 2CO	
Socket, snaps onto DIN-rail, 4CO	

12 A/10 A		
300 V AC		
2500 Vrms		
2500 Vrms		
0.5 Nm/0.8 Nm		
0.5-2.5 mm ²		
-40 °C...+70 °C		
35 g/43 g		
20 pcs		
Type	Qty.	Order No.
FS 2CO*	10	7760056106
FS 4CO	10	7760056107

* Functional module is not suitable for this type of sockets.

Metal clip (recommended in applications with vibrations)

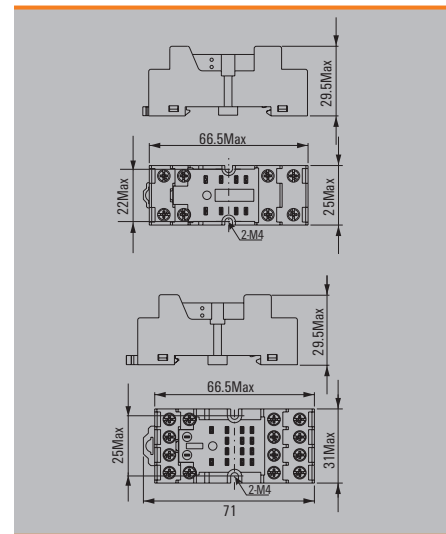
Type	Order No.
DRM clip M (for DRM relay)	7760056108

Functional modules

Technical data	
Suppressor diode 6...230 V DC	
RC-combined protection 110...230 V AC	
RC-combined protection 110...230 V AC with LED	
Green LED 6...24 V DC with suppressor diode	
Green LED 24...60 V DC with suppressor diode	
Green LED 110...230 V DC with suppressor diode	
Green LED 6...24 V DC / V AC	
Green LED 24...60 V DC / V AC	
Green LED 110...230 V DC / V AC	
Not for FS 2CO socket	

Type	Order No.
RIM 1 6/230 V DC	7760056169
RIM 3 110/230 V AC	7760056014
RIM 3 110/230 V AC LED	7760056045
RIM 2 6/24 V DC	7760056015
RIM 2 24/60 V DC	7760056016
RIM 2 110/230 V DC	7760056017
RIM 3 6/24 V UC	7940018457
RIM 3 24/60 V UC	7760056018
RIM 3 110/230 V UC	7940018455

Dimensions in mm



DRM clip M

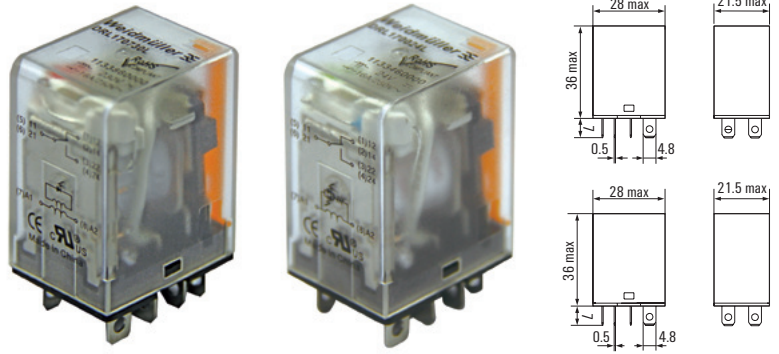


DRL Power Relay

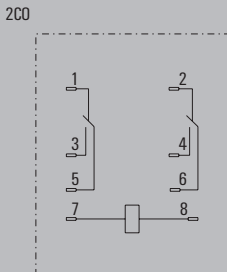
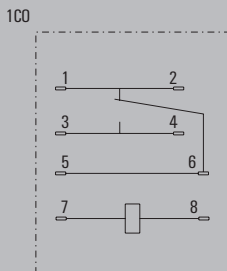
1CO AC/DC coil

2CO AC/DC coil

- High wear resistivity for AC loads
- High dielectric strength: 2,000 V

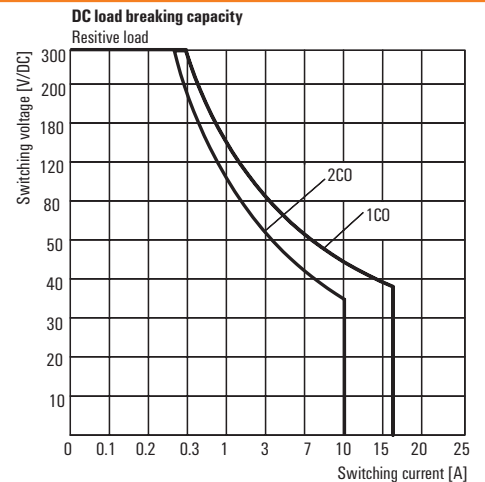
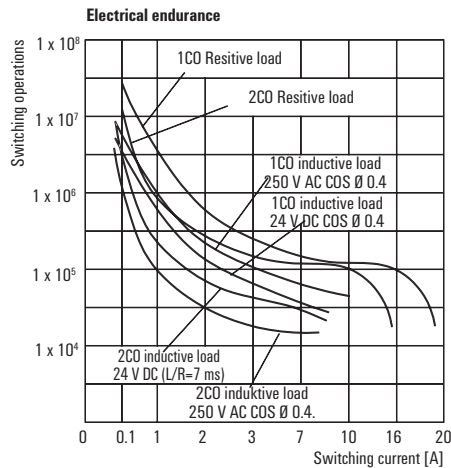
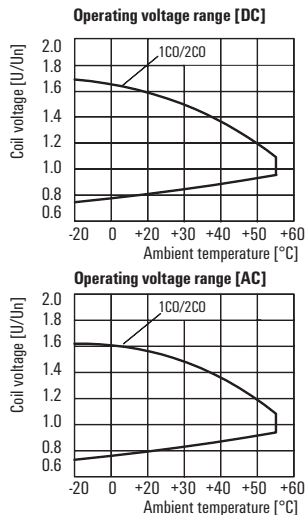


Circuit diagram



Output	
Max. switching voltage	250 V AC
Continuous current	16 A @ 1CO / 10 A @ 2CO
Contact material	AgCdO
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 20 ms / < 20 ms
Input	
Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	1.2 VA / 0.9 W
General	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 2000 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; UL
Weight	35 g
Packing unit	20 pcs
Dimension	
Depth x Width x Height	mm 36 / 21.5 / 28
Note	

Applications



DRL Power Relay
1CO AC/DC coil
2CO AC/DC coil

Type code	DRL			
Type	DRL			
Type of construction	170 1 change over contact			
	270 2 change over contacts			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	615 115 V AC / 730 230 V AC			
LED indicator	L			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
Response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Power consumption	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Rated current	75 mA	36.9 mA	18.5 mA	10 mA	5.2 mA
Coil resistance	160 Ω ±10 %	650 Ω ±10 %	2,600 Ω ±10 %	11,000 Ω ±10 %	42,000 Ω ±10 %

Ordering data					
1 change over contact Type	DRL170012L	DRL170024L	DRL170048L	DRL170110L	DRL170220L
1CO Order No.	1133450000	1133460000	1133470000	1133480000	1133490000
2 change over contact Type	DRL270012L	DRL270024L	DRL270048L	DRL270110L	DRL270220L
2CO Order No.	1133510000	1133520000	1133530000	1133540000	1133550000



Ordering data

	24 V AC	115 V AC	230 V AC
Input			
Rated voltage	24 V AC	115 V AC	230 V AC
Response / dropout voltage	19.2 V / 7.2 V	92 V / 34.5 V	184 V / 69 V
Power consumption	1.2 VA	1.2 VA	1.2 VA
Rated current (50 Hz)	54 mA	12.9 mA	6.8 mA
Coil resistance	160 Ω ±10 %	3,750 Ω ±10 %	13,000 Ω ±10 %

Ordering data			
1 change over contact Type	DRL170524L	DRL170615L	DRL170730L
1CO Order No.	1133840000	1133850000	1133860000
2 change over contact Type	DRL270524L	DRL270615L	DRL270730L
2CO Order No.	1133870000	1133880000	1133890000

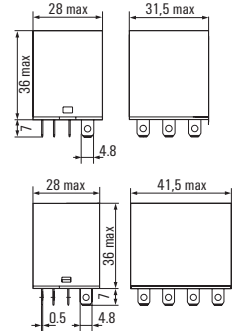


DRL Power Relay

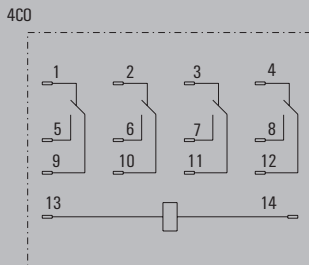
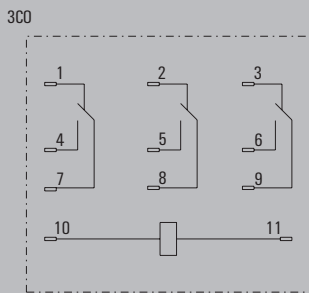
3 CO AC/DC coil

4 CO AC/DC coil

- High wear resistivity for AC loads
- High dielectric strength: 2,000 V

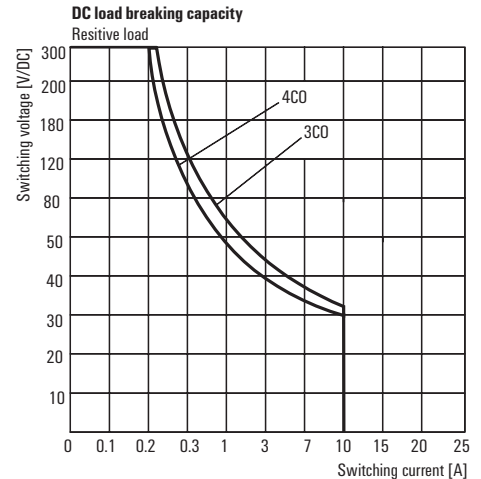
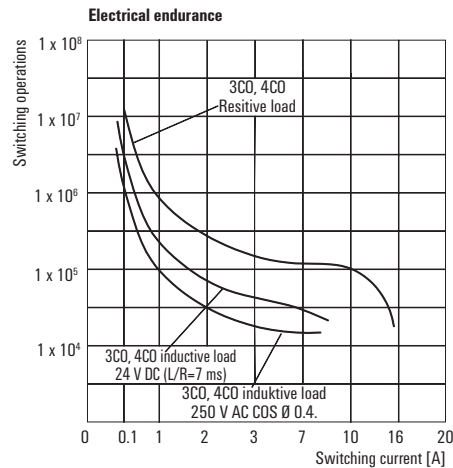
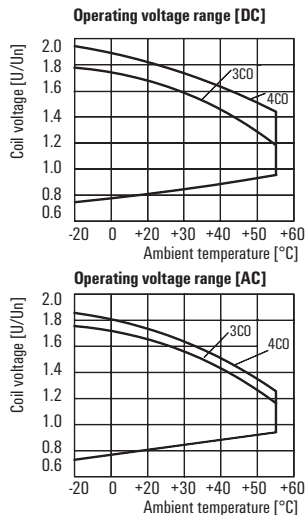


Circuit diagram



Output	
Max. switching voltage	250 V AC
Continuous current	10 A
Contact material	AgCdO
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 20 ms / < 20 ms
Input	
Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	3CO: 2 VA / 1.4 W; 4CO: 2.5 VA / 1.5 W
General	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 2000 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; UL
Weight	3CO: 50 g; 4CO: 65 g
Packing unit	10
Dimension	
Depth x Width x Height	mm 36 / x / 28
Plug-in connection	
Note	x = 31.5 3CO / 41.5 4CO

Applications



DRL Power Relay
3 CO AC/DC coil
4 CO AC/DC coil

Type code	DRL			
Type	DRL			
Type of construction	370 3 change over contact	570 4 change over contacts		
Coil voltage	012 12 V DC / 024 24 V DC	048 48 V DC / 110 110 V DC	220 220 V DC / 524 24 V AC	615 115 V AC / 730 230 V AC
LED indicator	L			

Ordering data

	12 V DC		24 V DC		48 V DC		110 V DC		220 V DC	
Input										
Rated voltage	12 V DC		24 V DC		48 V DC		110V DC		220V DC	
Response / dropout voltage	9 V / 1.2 V		18 V / 2.4 V		36 V / 4.8 V		82.5 V / 11 V		165 V / 22 V	
	3CO	4CO	3CO	4CO	3CO	4CO	3CO	4CO	3CO	4CO
Power consumption	1.4 W	1.5 W	1.4 W	1.5 W	1.4 W	1.5 W	1.4 W	1.5 W	1.4 W	1.5 W
Rated current	120 mA	125 mA	60 mA	66.7 mA	30 mA	31.2 mA	13.1 mA	16.2 mA	6.7 mA	7.6 mA
Coil resistance	100 Ω ±10 %	96 Ω ±10 %	400 Ω ±10 %	360 Ω ±10 %	1,600 Ω ±10 %	1,540 Ω ±10 %	8,400 Ω ±10 %	6,800 Ω ±10 %	33,000 Ω ±10 %	29,000 Ω ±10 %

Ordering data	12 V DC		24 V DC		48 V DC		110 V DC		220 V DC	
3 change over contacts Type	DRL370012L		DRL370024L		DRL370048L		DRL370110L		DRL370220L	
3CO Order No.	1133570000		1133580000		1133590000		1133600000		1133610000	
4 change over contacts Type	DRL570012L		DRL570024L		DRL570048L		DRL570110L		DRL570220L	
4CO Order No.	1133620000		1133630000		1133640000		1133650000		1133660000	

Ordering data

	24 V AC		115 V AC		230 V AC	
Input						
Rated voltage	24 V AC		115 V AC		230 V AC	
Response / dropout voltage	19.2 V / 7.2 V		92 V / 34.5 V		184 V / 69 V	
	3CO	4CO	3CO	4CO	3CO	4CO
Power consumption	2 VA	2.5 VA	2 VA	2.5 VA	2 VA	2.5 VA
Rated current (50 Hz)	80 mA	93.5 mA	16 mA	25.5 mA	10 mA	13.1 mA
Coil resistance	102 Ω ±10 %	80 Ω ±10 %	2,300 Ω ±10 %	1,680 Ω ±10 %	8,600 Ω ±10 %	6,700 Ω ±10 %

Ordering data	24 V AC		115 V AC		230 V AC	
3 change over contacts Type	DRL370524L		DRL370615L		DRL370730L	
3CO Order No.	1133910000		1133920000		1133930000	
4 change over contact Type	DRL570524L		DRL570615L		DRL570730L	
4CO Order No.	1133940000		1133950000		1133960000	

Accessories for DRL relay



Ordering data

Technical data	
Rated voltage	300 V
Rated current	10 A
Dielectric strength for input - output	2,000 V
Dielectric strength between the contacts	2,500 V
Ambient temperature (operational)	-40 ... 85 °C
Pollution severity	2
Over voltage class	III
Max. torque	1.0 Nm
Wire cross section	0.5 ... 2.5 mm ²
Protection class (IEC 61810)	IP20
Approvals	CE, cURus
Description	
Socket, snaps onto DIN-rail, 2CO	
Socket, snaps onto DIN-rail, 3CO	
Socket, snaps onto DIN-rail, 4CO	

Type	Qty.	Order No.
SLD F 2CO	10	7760056225
SLD F 3CO	10	7760056226
SLD F 4CO	10	7760056227

Ordering data

Technical data	
Metal clips SLD F 2CO	
Metal clips SLD F 3CO	
Metal clips SLD F 4CO	

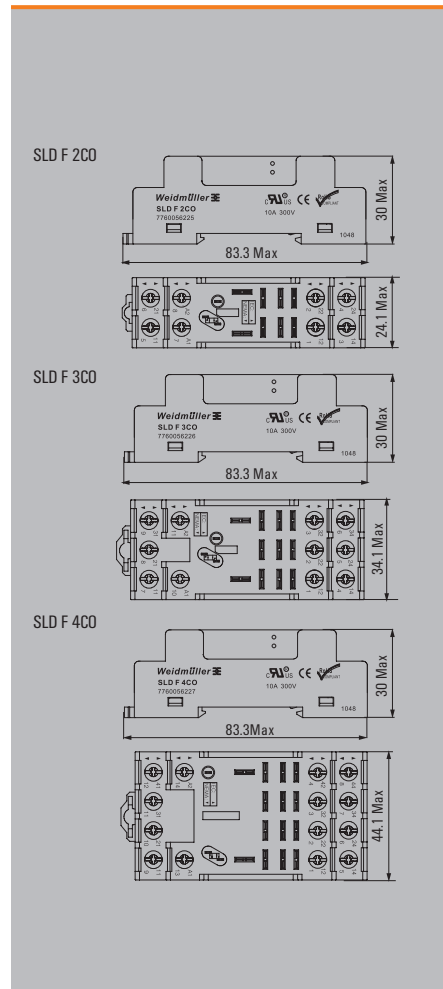
Type	Order No.
SLD clip 2CO	7760056108
SLD clip 3CO	7760056234
SLD clip 4CO	7760056235

Ordering data

Technical data	
Suppressing diode 6...230 V DC, for SLD F 2CO/3CO	
RC element 110...230 V AC, for SLD F 2CO/3CO	
RC element 6 ... 230 V AC, for SLD F 4CO	
Suppressing diode 6...230 V DC, for SLD F 4CO	

Type	Order No.
RIM 1 6/230 V DC	7760056169
RIM 3 110/230 V AC	7760056014
RIM 5 6/230 V AC	1174670000
RIM 5 6/230 V DC	1174650000

Dimensions in mm

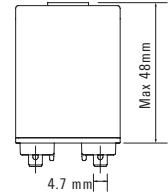
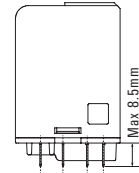
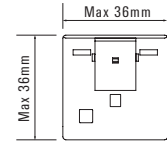


Resistive Load DRW power relay

2 CO AC/DC coil

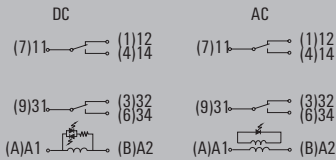
3 CO AC/DC coil

- Suitable to switch high voltage load
- With LED and test lever

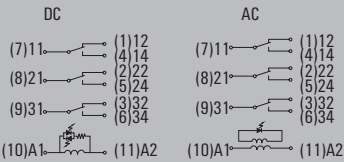


Circuit diagram

2CO



3CO



Output

Max. switching voltage	400 V AC
Continuous current	16 A@ 400 V AC; 16 A@ 30 V DC
Contact material	AgCdO
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles
Switch-on / switch-off delay	< 20 ms / < 10 ms
Max. switching frequency at rated load	1 Hz

Input

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.5 W

General

Ambient temperature (operational)	- 40 ... 60 °C
Storage temperature	- 40 ... 60 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 4000 V AC / 1 min Between N.O. contacts 2500 V AC / 1 min Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	3.5 mm / 6 mm
Insulation coordination IEC60664	Rated voltage 400 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	51 g

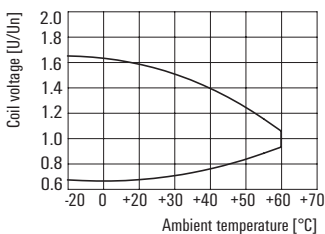
Dimension

Depth x Width x Height	mm 48 / 36 / 36
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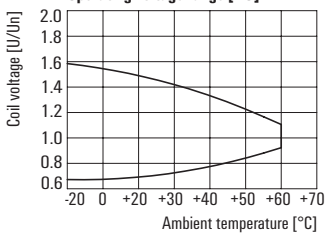
Note

Applications

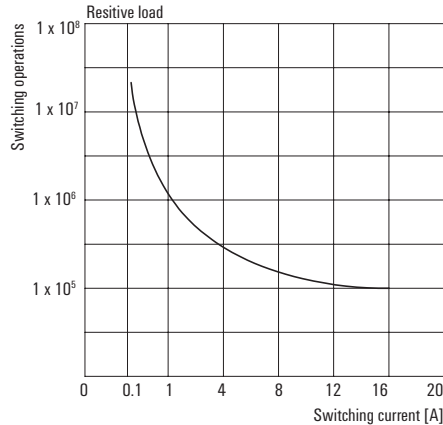
Operating voltage range [DC]



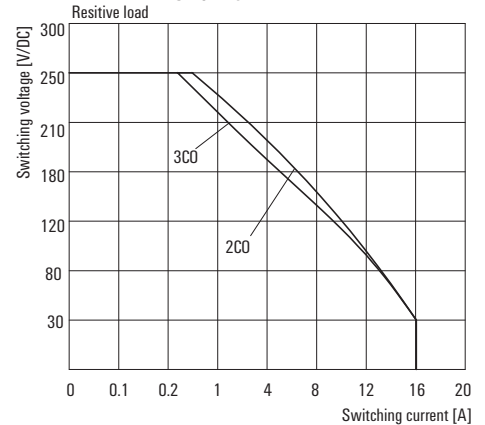
Operating voltage range [AC]



Electrical endurance



DC load breaking capacity



DRW power relay
2 CO AC/DC coil
3 CO AC/DC coil

Type code	DRW			
Type	DRW			
Type of construction	270 2CO 174 1NC			
Coil voltage	012 12 V DC / 024 24 V DC 048 48 V DC / 110 110 V DC 220 220 V DC / 524 24 V AC 548 48 V AC / 615 115 V AC 730 230 V AC / 900 400 V AC			
With LED and test lever	LT			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
DC response / dropout voltage	9 V / 1.2 V	8 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	115 V / 22 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	120 mA	60 mA	30 mA	13.03 mA	6.7 mA
Coil resistance	100 Ω ±10 %	400 Ω ±10 %	1,600 Ω ±10 %	8,400 Ω ±10 %	33,000 Ω ±10 %

Ordering data						
2CO contact	Type	DRW270012LT	DRW270024LT	DRW270048LT	DRW270110LT	DRW270220LT
	Order No.	1219730000	1219740000	1219750000	1219760000	1219770000
3CO contact	Type	DRW370012LT	DRW370024LT	DRW370048LT	DRW370110LT	DRW370220LT
	Order No.	1219780000	1219790000	1219810000	1219820000	1219830000
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	7760056249	7760056249	7760056249	7760056249	7760056249

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
Input					
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
DC response / dropout voltage	19.2V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V	320 V / 120 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
DC rated current	101.7 mA	51.04 mA	21.2 mA	10.61 mA	6.1 mA
Coil resistance	100 Ω ±10 %	350 Ω ±10 %	2,200 Ω ±10 %	8,000 Ω ±10 %	30,000 Ω ±10 %

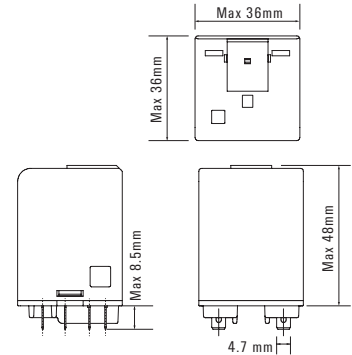
Ordering data						
2CO contact	Type	DRW270524LT	DRW270548LT	DRW270615LT	DRW2701730LT	DRW270900LT
	Order No.	1219350000	1219360000	1219370000	1219380000	1219390000
3CO contact	Type	DRW370524LT	DRW370548LT	DRW370615LT	DRW370730LT	DRW370900LT
	Order No.	1219410000	1219420000	1219430000	1219440000	1219450000
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	7760056249	7760056249	7760056249	7760056249	7760056249

DRH DC Relay

1 NO AC/DC coil

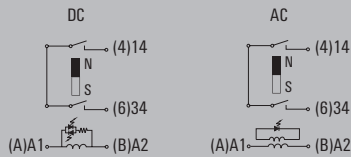
1 NC AC/DC coil

- Suitable to switch heavy DC load
- With Blowout magnet
- With LED and test lever
- For switching of high DC loads up to 10 A@ 220 V DC

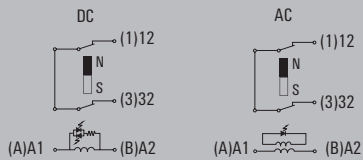


Circuit diagram

1NO



1NC



Output

Max. switching voltage	AC: 500 V; DC: 220 V
Continuous current	16 A@ 500 V AC; 10 A@ 220 V DC
Contact material	AgSnO2
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles
Switch-on / switch-off delay	< 20 ms / < 20 ms
Max. switching frequency at rated load	1 Hz

Input

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 750 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.5 W

General

Ambient temperature (operational)	- 40 °C ... 60 °C
Storage temperature	- 40 °C ... 60 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 4000 V AC / 1 min Between N.O. contacts 2500 V AC / 1 min Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 400 V Pollution severity 3 Over voltage class III

Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	48 g

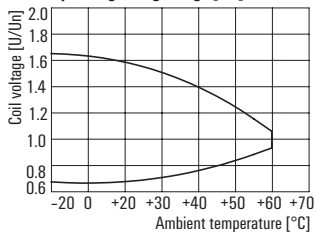
Dimension

Depth x Width x Height	mm 48 / 36 / 36
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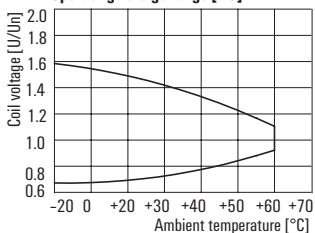
Note

Applications

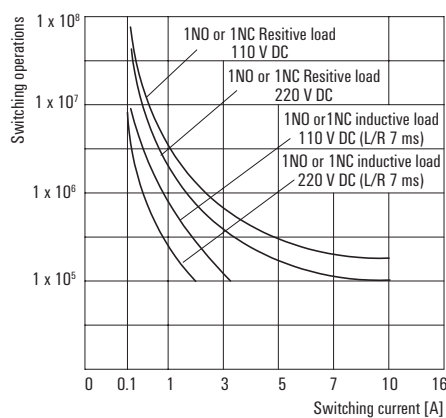
Operating voltage range [DC]



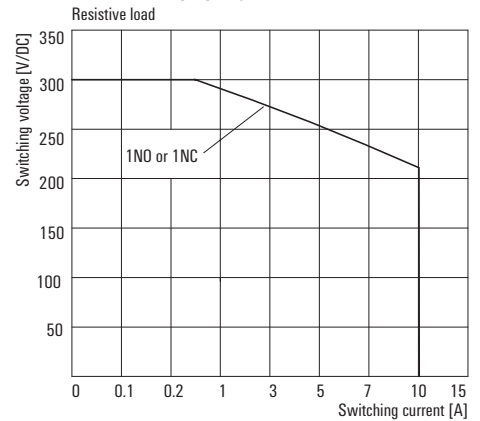
Operating voltage range [AC]



Electrical endurance



DC Load breaking capacity [DC]



DRH DC Relay
1 NO AC/DC coil
1 NC AC/DC coil

Type code	DRH			
Type	DRH			
Type of construction	173 1NO			
	174 1NC			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	548 48 V AC / 615 115 V AC			
	730 230 V AC			
With LED and test lever	LT			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
DC response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	120 mA	60 mA	30 mA	13.03 mA	6.7 mA
Coil resistance	100 Ω ±10 %	400 Ω ±10 %	1,600 Ω ±10 %	8,400 Ω ±10 %	33,000 Ω ±10 %

Ordering data						
1NO contact	Type	DRH173012LT	DRH173024LT	DRH173048LT	DRH173110LT	DRH173220LT
	Order No.	1219840000	1219850000	1219860000	1219870000	1219880000
1NC contact	Type	DRH174012LT	DRH174024LT	DRH174048LT	DRH174110LT	DRH174220LT
	Order No.	1219940000	1219950000	1219960000	1219970000	1219980000
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	7760056249	7760056249	7760056249	7760056249	7760056249

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC
Input				
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
AC response / dropout voltage	19.2 V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA
AC rated current	101.7 mA	51.04 mA	21.2 mA	10.61 mA
Coil resistance	100 Ω ±10 %	350 Ω ±10 %	2,200 Ω ±10 %	8,000 Ω ±10 %

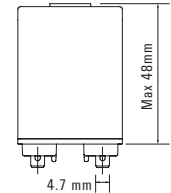
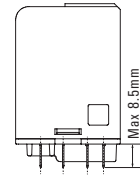
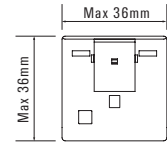
Ordering data					
1NO contact	Type	DRH173524LT	DRH173548LT	DRH173615LT	DRH173730LT
	Order No.	1219890000	1219910000	1219920000	1219930000
1NC contact	Type	DRH174012LT	DRH174024LT	DRH174048LT	DRH174110LT
	Order No.	1219990000	1220010000	1220020000	1220030000
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	7760056249	7760056249	7760056249	7760056249

DRH DC Relay

2 NO AC/DC coil

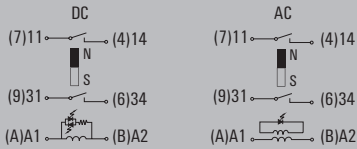
1 NO/ 1 NC AC/DC coil

- Suitable to switch heavy DC load
- With Blowout magnet
- With LED and test lever
- For switching of high DC loads up to 3 A@ 220 V DC

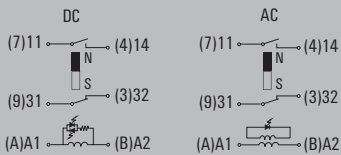


Circuit diagram

2NO



1NO/1NC



Output

Max. switching voltage	AC: 250 V; DC: 220 V
Continuous current	2NO 16 A@ 250 V AC; 3 A@ 220 V DC
	1NO/1NC 16 A@ 250 V AC; 3 A@ 220 V DC
Contact material	AgSnO2
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles
Switch-on / switch-off delay	< 20 ms / < 20 ms
Max. switching frequency at rated load	1 Hz

Input

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 750 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.5 W

General

Ambient temperature (operational)	- 40 ... 60 °C
Storage temperature	- 40 ... 60 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 4000 V AC / 1 min
	Between N.O. contacts 2500 V AC / 1 min
	Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 400 V
	Pollution severity 3
	Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	48 g

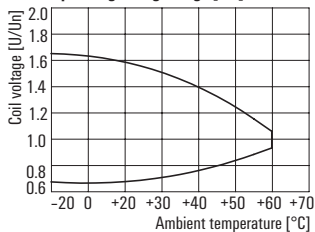
Dimension Plug-in connection

Depth x Width x Height	mm 48 / 36 / 36
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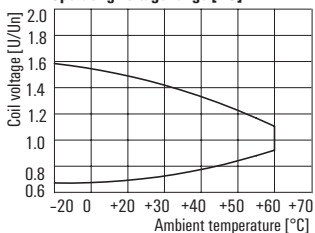
Note

Applications

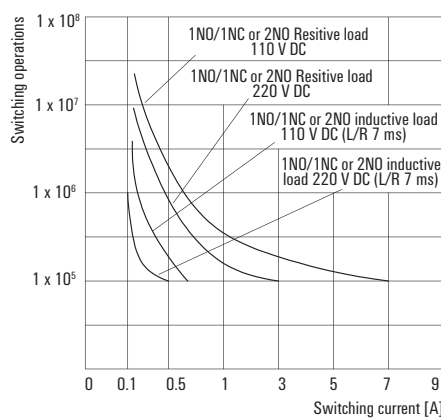
Operating voltage range [DC]



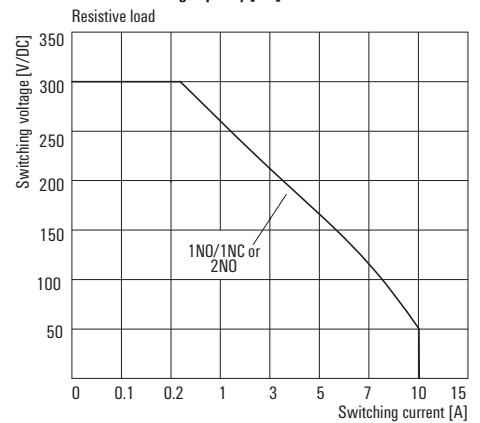
Operating voltage range [AC]



Electrical endurance



DC Load breaking capacity [DC]



DRH DC Relay
2 NO AC/DC coil
1 NO/ 1 NC AC/DC coil

Type code	DRH			
Type	DRH			
Type of construction	275 1NO/1NC			
	276 2NO			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	548 48 V AC / 615 115 V AC			
	730 230 V AC			
With LED and test lever	LT			

Ordering data

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Input					
Rated voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
DC response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	120 mA	60 mA	30 mA	13.03 mA	6.7 mA
Coil resistance	100 Ω ±10 %	400 Ω ±10 %	1,600 Ω ±10 %	8,400 Ω ±10 %	33,000 Ω ±10 %

Ordering data					
1NO contact/ Type	DRH275012LT	DRH275024LT	DRH275048LT	DRH275110LT	DRH275220LT
1NC contact Order No.	1220040000	1220050000	1220060000	1220070000	1220080000
2NO contact Type	DRH276012LT	DRH276024LT	DRH276048LT	DRH276110LT	DRH276220LT
Order No.	1220140000	1220150000	1220170000	1220180000	1220190000
Test lever blocking clip Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249	7760056249

Ordering data

	24 V AC	48 V AC	115 V AC	230 V AC
Input				
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
DC response / dropout voltage	19.2V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA
DC rated current	101.7 mA	51.04 mA	21.2 mA	10.61 mA
Coil resistance	100 Ω ±10 %	350 Ω ±10 %	2,200 Ω ±10 %	8,000 Ω ±10 %

Ordering data				
1NO contact/ Type	DRH275524LT	DRH275548LT	DRH275615LT	DRH275730LT
1NC contact Order No.	1220090000	1220110000	1220120000	1220130000
2NO contact Type	DRH276524LT	DRH276548LT	DRH276615LT	DRH276730LT
Order No.	1220200000	1220210000	1220220000	1220230000
Test lever blocking clip Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
Order No.	7760056249	7760056249	7760056249	7760056249

Accessories for DRH and DRW relay

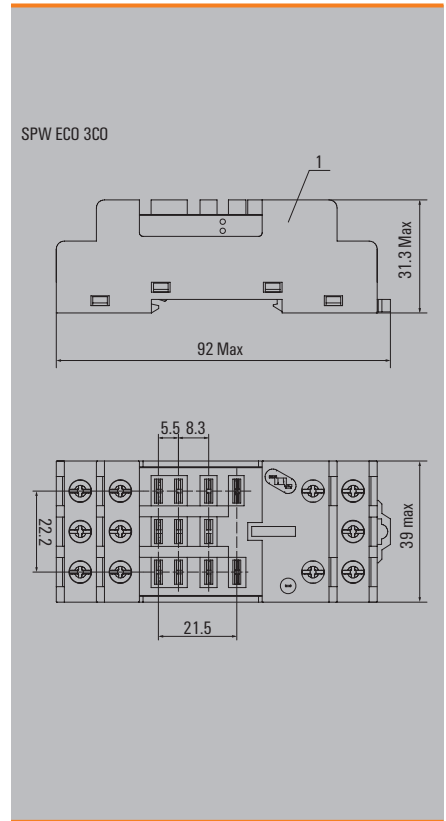


Ordering data

Technical data	
Rated voltage	400 V AC
Rated current	16 A
Dielectric strength for input - output	4,000 V
Dielectric strength between the contacts	4,000 V
Ambient temperature (operational)	-40 ... 60 °C
Pollution severity	2
Over voltage class	II
Max. torque/max.	1.2 Nm
Wire cross section	0.5 ... 4 mm ²
Protection class (IEC 61810)	IP20
Weight	64 g
Approvals	CE, cURus
Description	
Socket, snaps onto DIN-rail, 3C0	
Metal clip	

Type	Qty.	Order No.
SPW ECO 3C0	10	1220250000
Metal clip DRH/DRW	10	1220260000

Dimensions in mm



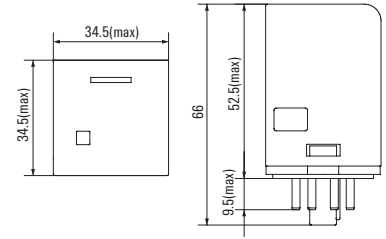
Functional modules

Technical data	
RC element 6 ... 230 V AC	
Suppressordiode 6 ... 230 V DC	

	Order No.
RIM 5 6/230 V AC	1174670000
RIM 5 6/230 V DC	1174650000

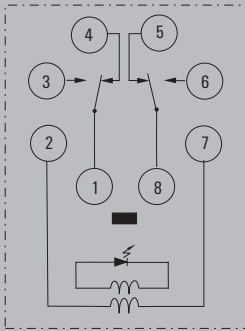
DRR Power Relay
2CO AC/DC coil

- 2500 VA switching capacity
- 8-pin relay

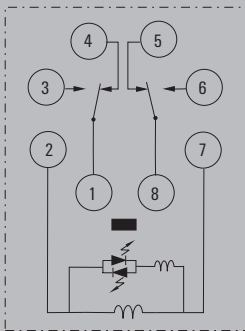


Circuit diagram

AC



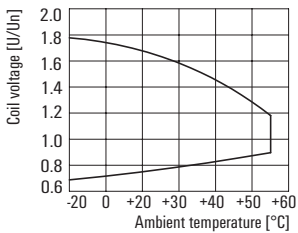
DC



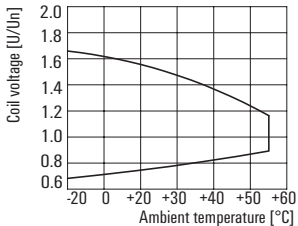
Output	
Max. switching voltage	250 V AC
Continuous current	10 A
Contact material	AgCdO
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 30 ms / < 20 ms
Input	
Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.7 VA / 1.5 W
General	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	5 ... 85 %
Dielectric strength	Input - output 2500 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2500 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV
Weight	75 g
Packing unit	10
Dimension	
Depth x Width x Height	mm 52.5 / 34.5 / 34.5
Note	

Applications

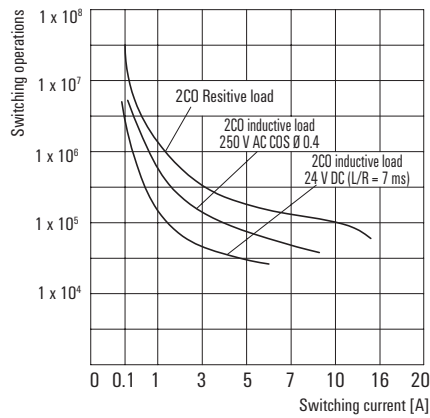
Operating voltage range [DC]



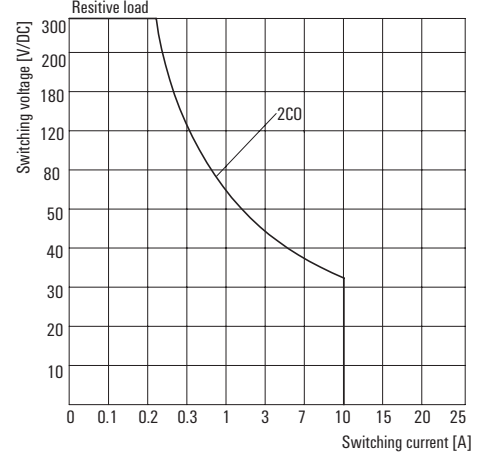
Operating voltage range [AC]



Electrical endurance



DC load breaking capacity



**DRR Power Relay
2CO AC/DC coil**

Type code	DRR			
Type	DRR			
Type of construction	270	2 change over contacts		
Coil voltage	012	12 V DC / 024	24 V DC	
	048	48 V DC / 110	110 V DC	
	220	220 V DC / 524	24 V AC	
	615	115 V AC / 730	230 V AC	
LED indicator	L			

Ordering data

Input	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
DC response / dropout voltage	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	125 mA	55.8 mA	29.3 mA	14.9 mA	7.5 mA
Coil resistance	96 Ω ±10 %	430 Ω ±10 %	1,640 Ω ±10 %	7,360 Ω ±10 %	29,500 Ω ±10 %

Ordering data					
Type	DRR270012L	DRR270024L	DRR270048L	DRR270110L	DRR270220L
Order No.	1133360000	1133370000	1133380000	1133390000	1133400000

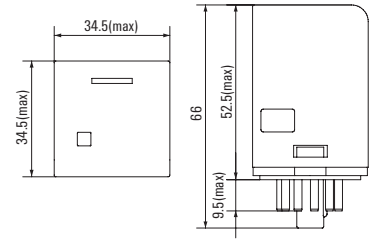
Ordering data

Input	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Rated voltage	24 V AC	115 V AC	230 V AC
Response / dropout voltage	19.2 V / 7.2 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.7 VA	2.7 VA	2.7 VA
Rated current (50 Hz/60 Hz)	130 mA / 116 mA	29.8 mA / 25.4 mA	14.9 mA / 12.7 mA
Coil resistance	62.5 Ω ±10 %	1,250 Ω ±10 %	6,500 Ω ±10 %

Ordering data			
Type	DRR270524L	DRR270615L	DRR270730L
Order No.	1133760000	1133780000	1133800000

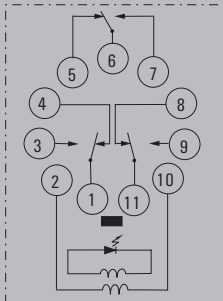
DRR Power Relay
3CO AC/DC coil

- 2500 VA switching capacity
- 11-pin plug in DIN rail installation

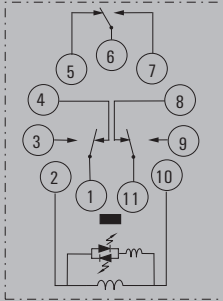


Circuit diagram

DRR310
AC



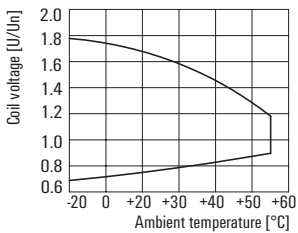
DC



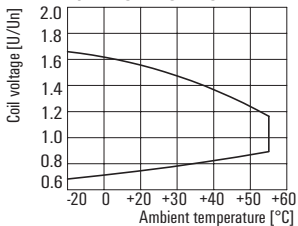
Output	
Max. switching voltage	250 V AC
Continuous current	10 A
Contact material	AgNi 90/10
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 30 ms / < 20 ms
Input	
Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 80 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.7 VA / 1.5 W
General	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	5 ... 85 %
Dielectric strength	Input - output 2500 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2500 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV
Weight	75 g
Packing unit	10
Dimension	
Depth x Width x Height	mm 54.5 / 34.5 / 34.5
Note	

Applications

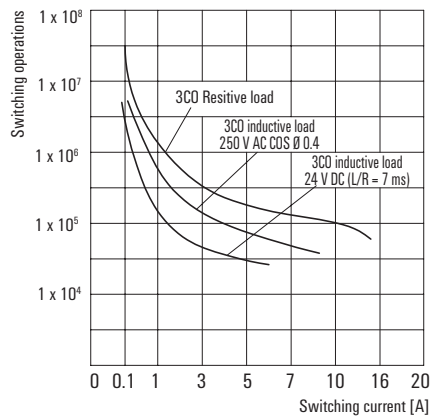
Operating voltage range [DC]



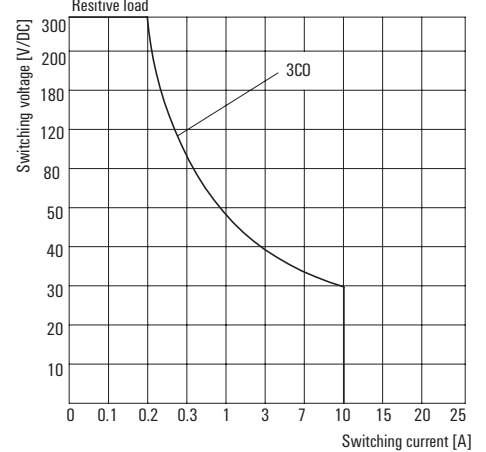
Operating voltage range [AC]



Electrical endurance



DC load breaking capacity



**DRR Power Relay
3CO AC/DC coil**

Type code	DRR			
Type	DRR			
Type of construction	370	3 change over contacts		
Coil voltage	012	12 V DC / 024	24 V DC	
	048	48 V DC / 110	110 V DC	
	220	220 V DC / 524	24 V AC	
	615	115 V AC / 730	230 V AC	
LED indicator	L			

Ordering data

	12 V DC 3CO	24 V DC 3CO	48 V DC 3CO	110 V DC 3CO	220 V DC 3CO
Input					
Rated voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Response / dropout voltage	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Rated current	125 mA	55.8 mA	29.3 mA	14.9 mA	7.5 mA
Coil resistance	96 Ω ±10 %	430 Ω ±10 %	1,640 Ω ±10 %	7,360 Ω ±10 %	29,500 Ω ±10 %

Ordering data					
Type	DRR370012L	DRR370024L	DRR370048L	DRR370110L	DRR370220L
Order No.	1133410000	1133420000	1133430000	1133440000	1133560000

Ordering data

	24 V AC 3CO	115 V AC 3CO	230 V AC 3CO
Input			
Rated voltage	24 V AC	115 V AC	230 V AC
Response / dropout voltage	19.2V / 7.2 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.7 VA	2.7 VA	2.7 VA
Rated current (50 Hz/60 Hz)	130 mA / 116 mA	29.8 mA / 25.4 mA	14.9 mA / 12.7 mA
Coil resistance	62.5 Ω ±10 %	1,250 Ω ±10 %	6,500 Ω ±10 %

Ordering data			
Type	DRR370524L	DRR370615L	DRR370730L
Order No.	1133810000	1133820000	1133830000

Accessories for DRR relay



Ordering data

Technical data	
Rated voltage	300 V
Rated current	12 A
Dielectric strength for input - output	4,000 V
Dielectric strength between the contacts	2,500 V
Operating temperature	-40 ... 85 °C
Pollution severity	2
Over voltage class	III
Max. torque	1.0 Nm
Wire cross section	0.5 ... 2.5 mm ²
Protection class (IEC 61810)	IP20
Weight	50 g
Approvals	CE
Description	
Socket, snaps onto DIN-rail, 8-pin	
Socket, snaps onto DIN-rail, 11-pin	

Type	Qty.	Order No.
SRD ECO 2CO	10	1132810000
SRD ECO 3CO	10	1132820000

Metal clip

Description	Order No.
Metal clip for DRR relay sockets	1134160000

Description	Order No.
DRR SOCKET METAL CLIP	1134160000

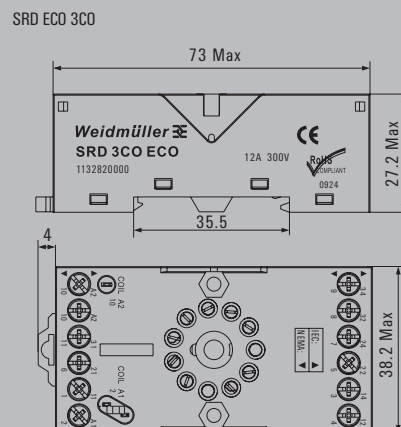
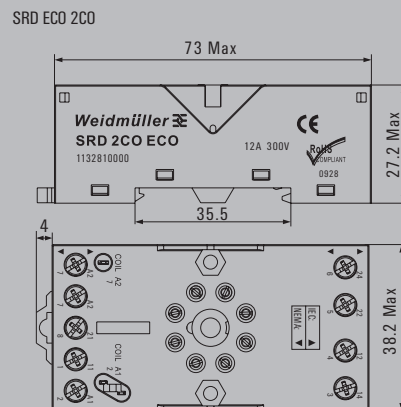


Functional modules

Technical data	
RC element 6 ... 230 V AC	
Suppressordiode 6 ... 230 V DC	

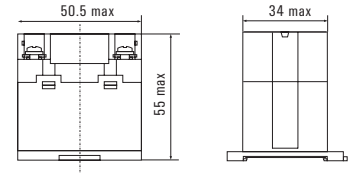
Order No.	
RIM 5 6/230 V AC	1174670000
RIM 5 6/230 V DC	1174650000

Dimensions in mm



PWR high power relay
1 NO AC/DC coil

- Max. load current: 30 A



Circuit diagram

1NO

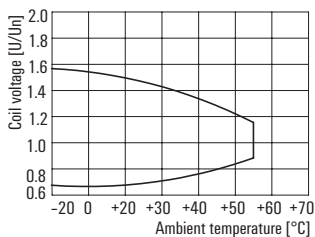


Output		
Max. switching voltage	277 V AC	
Continuous current	30 A	
Contact material	AgNi	
Min. switching power	12 V DC / 100 mA	
Contact resistance (initial)	< 50 mΩ	
Electrical endurance	> 10 × 10 ⁴ cycles	
Switch-on / switch-off delay	< 20 ms / < 10 ms	
Input		
Response voltage @ 25 °C	AC: ≤ 75 % of rated voltage DC: ≤ 75 % of rated voltage	
Dropout voltage @ 25 °C	AC: ≥ 15 % of rated voltage DC: ≥ 15 % of rated voltage	
Max. voltage @ 25 °C	110 % of rated voltage	
Coil power consumption	2.5 VA / 1.9 W	
General		
Ambient temperature (operational)	- 25 ... 55 °C	
Storage temperature	- 25 ... 55 °C	
Humidity	35 ... 85 %	
Dielectric strength	Input - output	2000 V AC / 1 min
	Between N.O. contacts	2000 V AC / 1 min
	Between adjacent contacts	4000 V AC / 1 min
Clearance / creepage distance	3.5 mm / 6 mm	
Insulation coordination IEC60664	Rated voltage	250 V
	Pollution severity	3
	Over voltage class	III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm	
Shock resistance	10 G (half wave of sine pulse: 11 ms)	
Approval	CE; TÜV; cURus	
Weight	120 g	
Dimension		
Depth x Width x Height	mm 55 / 50.5 / 34	

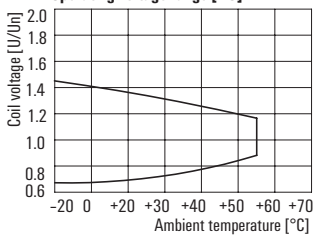
Note

Applications

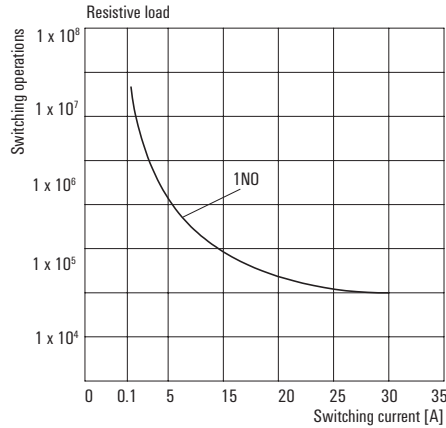
Operating voltage range [DC]



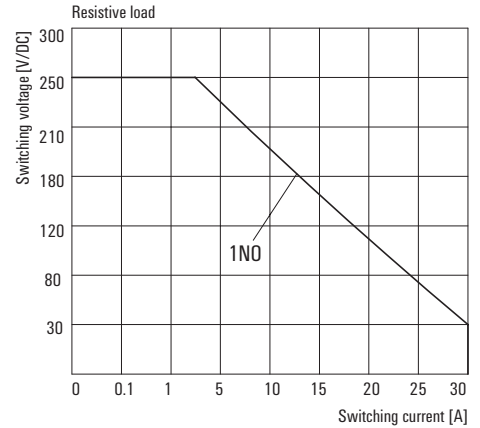
Operating voltage range [AC]



Electrical endurance



DC Load breaking capacity [DC]



**PWR high power relay
1 NO AC/DC coil**

Type code	PWR				
Type	PWR				
Type of construction and mounting	173 1N.O. contact, DIN-rail mounting				
Coil voltage	006	6 V DC / 012	12 V DC		
	024	24 V DC / 048	48 V DC		
	110	110 V DC / 220	220 V DC		
	524	24 V AC / 548	48 V AC		
	615	115 V AC / 730	230 V AC		
	880	380 V AC			
LED indicator	L with LED				

Ordering data

	6 V DC 1 NO	12 V DC 1 NO	24 V DC 1 NO	48 V DC 1 NO	110 V DC 1 NO	220 V DC 1 NO
Input						
Rated voltage	6 V DC	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
DC response / dropout voltage	4.5 V / 0.9 V	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W
DC rated current	317 mA	160 mA	79.2 mA	39.3 mA	17.3 mA	8.6 mA
Coil resistance	18.9 Ω ±10 %	75 Ω ±10 %	303 Ω ±10 %	1,220 Ω ±10 %	6,360 Ω ±10 %	25,474 Ω ±10 %

Ordering data						
Din rail installation, Type	PWR173006L	PWR173012L	PWR173024L	PWR173048L	PWR173110L	PWR173220L
Order No.	1219460000	1219470000	1219480000	1219490000	1219510000	1219520000

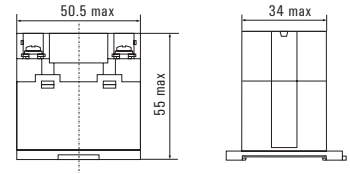
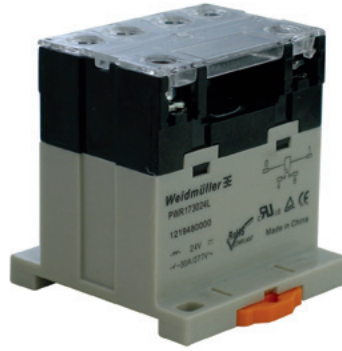
Ordering data

	24 V AC 1 NO	48 V AC 1 NO	115 V AC 1 NO	230 V AC 1 NO	380 V AC 1 NO
Input					
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC	380 V AC
Response / dropout voltage	18 V / 3.6 V	36 V / 7.2 V	86.3 V / 17.3 V	172.5 V / 34.5 V	285 V / 57 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Rated current (50 Hz/60 Hz)	87.3 mA	43.6 mA	22.1 mA	11.0 mA	6.1 mA
Coil resistance	275 Ω ±10 %	1,100 Ω ±10 %	5,200 Ω ±10 %	21,000 Ω ±10 %	62,650 Ω ±10 %

Ordering data					
Din rail installation, Type	PWR173524L	PWR173548L	PWR173615L	PWR173730L	PWR173880L
Order No.	1219090000	1219120000	1219130000	1219140000	1219150000

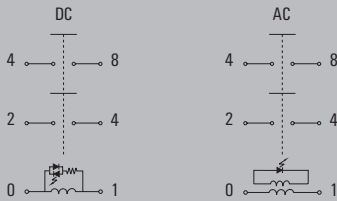
PWR high power relay
2 NO AC/DC coil

- Max. load current: 25 A



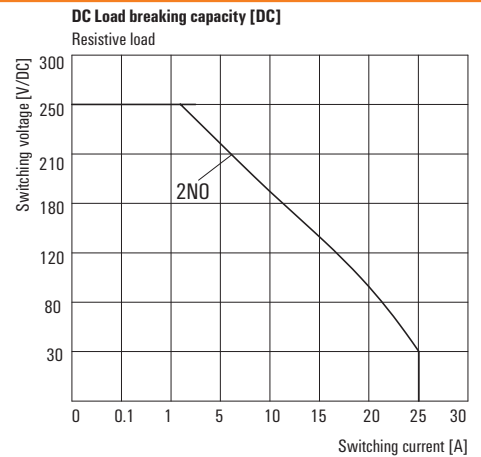
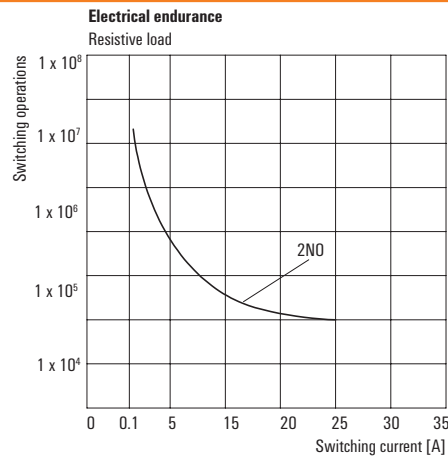
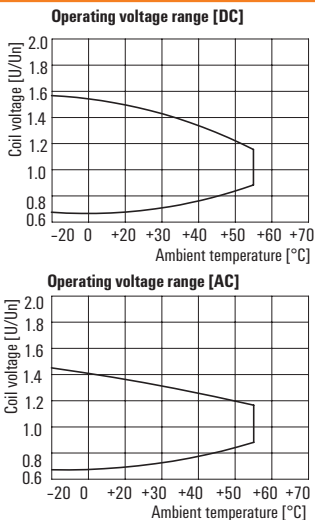
Circuit diagram

2NO



Output	
Max. switching voltage	277 V AC
Continuous current	25 A
Contact material	AgNi
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 ⁴ cycles
Switch-on / switch-off delay	< 30 ms / < 30 ms
Input	
Response voltage @ 25 °C	AC: ≤ 75 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 15 % of rated voltage DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.9 W
General	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 2000 V AC / 1 min
	Between N.O. contacts 2000 V AC / 1 min
	Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V
	Pollution severity 3
	Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	120 g
Dimension Screw connection	
Depth x Width x Height	mm 55 / 50.5 / 34
Note	

Applications



**PWR high power relay
2 NO AC/DC coil**

Type code	PWR				
Type	PWR				
Type of construction and mounting	276 2NO contact, DIN-rail mounting				
Coil voltage	006	6 V DC / 012	12 V DC		
	024	24 V DC / 048	48 V DC		
	110	110 V DC / 220	220 V DC		
	524	24 V AC / 548	48 V AC		
	615	115 V AC / 730	230 V AC		
	880	380 V AC			
LED indicator	L with LED				

Ordering data

	6 V DC 2 NO	12 V DC 2 NO	24 V DC 2 NO	48 V DC 2 NO	110 V DC 2 NO	220 V DC 2 NO
Input						
Rated voltage	6 V DC	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
DC response / dropout voltage	4.5 V / 0.9 V	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W
DC rated current	317 mA	160 mA	79.2 mA	39.3 mA	17.3 mA	8.6 mA
Coil resistance	18.9 Ω ±10 %	75 Ω ±10 %	303 Ω ±10 %	1,220 Ω ±10 %	6,360 Ω ±10 %	25,474 Ω ±10 %

Ordering data						
Din rail installation, Type	PWR276006L	PWR276012L	PWR276024L	PWR276048L	PWR276110L	PWR276220L
Order No.	1219530000	1219540000	1219550000	1219560000	1219570000	1219580000

Ordering data

	24 V AC 2 NO	48 V AC 2 NO	115 V AC 2 NO	230 V AC 2 NO	380 V AC 2 NO
Input					
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC	380 V AC
Response / dropout voltage	18 V / 3.6 V	36 V / 7.2 V	86.3 V / 17.3 V	172.5 V / 34.5 V	285 V / 57 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Rated current (50 Hz/60 Hz)	87.3 mA	43.6 mA	22.1 mA	11.0 mA	6.1 mA
Coil resistance	275 Ω ±10 %	1,100 Ω ±10 %	5,200 Ω ±10 %	21,000 Ω ±10 %	62,650 Ω ±10 %

Ordering data					
Din rail installation, Type	PWR276524L	PWR276548L	PWR276615L	PWR276730L	PWR276880L
Order No.	1219160000	1219170000	1219180000	1219190000	1219220000

Addresses worldwide

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[GCA95A120VAC50/60HZ](#) [GCA95A12VDC](#) [GCA95A240VAC50/60HZ](#) [GCA95A24VAC50/60HZ](#) [GCA95A48VAC60HZ](#) [ACC530U20](#)
[ACC730U30](#) [1395832-1](#) [RM699BV-3011-85-1005](#) [RMIA210230AC](#) [RMIA45024AC](#) [1423675-8](#) [B07B032AC1-0329](#) [B329](#) [1617807-1](#)
[N417](#) [P25-E5019-1](#) [P30C42A12D1-120](#) [2-1618398-1](#) [PBO-18A1218](#) [2307497](#) [RPYA00324LT](#) [RPYA003A120LT](#) [KR-4539-1](#)
[RT334012WG](#) [S160156115](#)