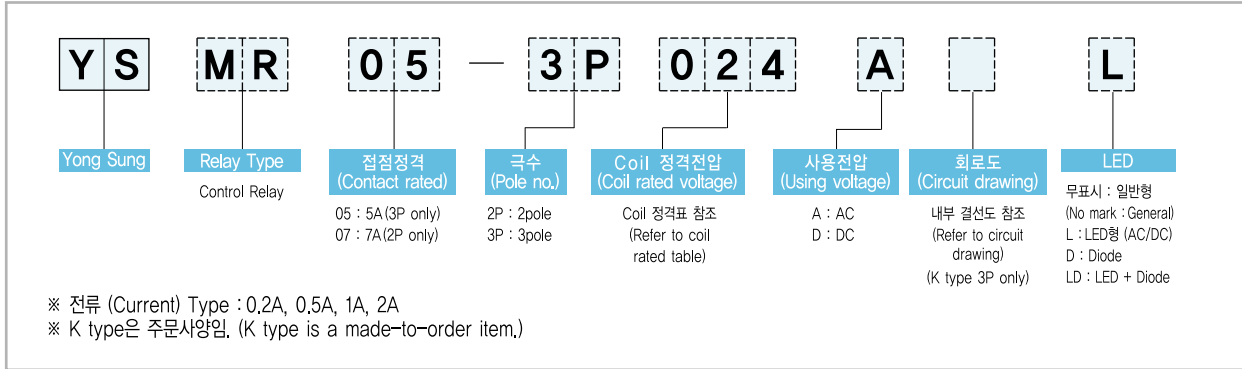


## 9-2

컨트롤 릴레이  
Control Relay

## 형식 구분도 | Type Classification Diagram |



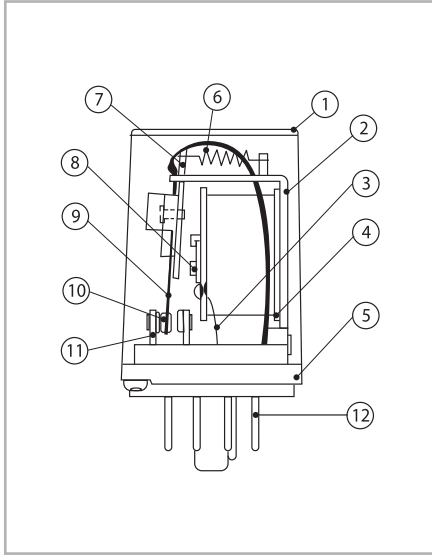
## 특징 | Features |

- 외형은 소형이면서도 7A의 부하를 개폐할 수 있어 일반제어회로에 널리 사용할 수 있습니다.
- 적용전압(코일전압)의 선택의 폭이 넓어 회로구성이 용이합니다.
- 교환이 용이합니다.
- 기계적 수명이 500만회 이상으로 오래도록 사용할 수 있습니다.
- As even with mini type can switch 7A load, it can be widely used for general control circuit.
- Easy to compose circuit due to wide range of rating voltage.
- Easy replacement.
- With above 5 million times of mechanical lifetime, it can be long used.

## 성능 개요 | Performance Summary |

접촉저항 (Contact resistance)		Below 50mΩ (Initial value)
절연저항 (Insulation resistance)		Above 100MΩ (DC 500V.Meg)
내전압 (Withstand voltage)		AC 2,000V/min / AC 1,000V/min (접점간) (Between contacts)
수명 (Lifetime)	기계적 (Mechanical)	Above 5,000,000 times
	전기적 (Electrical)	Above 500,000 times
동작시간 (Operating time)		AC below 20ms DC below 30ms
복귀시간 (Return time)		Below 20ms
내진동 (Withstand vibration)	오동작 (Malfunction)	10~55Hz Double amplitude 1.0mm
	내구 (Endurance)	10~55Hz Double amplitude 1.5mm
내충격 (Withstand impact)	오동작 (Malfunction)	100m/S <sup>2</sup> (About 10G)
	내구 (Endurance)	500m/S <sup>2</sup> (About 50G)
최대개폐빈도 (Max. Switching frequency)	기계적 (Mechanical)	20 times/min
	전기적 (Electrical)	20 times/min
사용주위온도 (Ambient temperature)		-25℃ ~ +40℃
상대습도 (Relative humidity)		45 ~ 85%

## 부품 재질 | Part Materials |



No.	부품명 (Part Names)	재질 (Materials)
1	Cover	PC 수지 (Polycarbonate resin)
2	Frame	탄소강 (Carbon steel)
3	Coil	구리선 (Copper wire)
4	Bobbin	66 나일론 수지 (Nylon 66 resin)
5	Plug	PBT Resin
6	복귀 스프링 (Return spring)	스테인리스 (Stainless steel)
7	Amature	순철 (Pure Iron)
8	Shaft	순철 (Pure Iron)
9	유동단자 (Moving terminal)	인청동 (Phosphor bronze)
10	접점 (Contact)	은접점 (Ag)
11	고정단자 (Fixed terminal)	황동 (Brass)
12	리드단자 (Lead terminal)	황동 (Brass)

## 접점 정격 | Contact Rated |

구분 (Classification)	최대접점용량 (Max. Contact capacity)					정격통전전류(A) (Rated conductive current)
	접점허용전력 (Contact Allowable Power)		전압(V) (Voltage)	정격부하 (Rated load)		
	저항부하 (Resistive load)	유도부하 (Inductive load)		저항부하 (Resistive load) (COSφ=1)	유도부하 (Inductive load) (COSφ=0.4,L/R=7ms)	
MR07	AC1540VA	AC660VA	AC220V	7	3	7
	DC120W	DC96W	DC24V	5	4	
MR05	AC1100VA	AC440VA	AC220V	5	2	5
	DC72W	DC60W	DC24V	3	2.5	

## 코일 정격 | Coil Rated |

	정격전압(V) (Rated voltage)	정격전류(mA) (Rated current)	COIL 저항(Ω) (Coil resistance)	소비전력(VA,W) (Power consumption)	최대연속인가전압 (Max.continuous applied voltage)	최소동작전압 (Min. operational voltage)	복귀전압 (Return voltage)
AC	24	88	100	2.3VA	110%	Below 80%	Above 30%
	110	21	2,000	2.2VA			
	220	11	8,120	2.3VA			
DC	24	85	280	2.0W	110%	Below 80%	Above 10%
	48	36	1,330	1.8W			
	110	14	8,150	1.6W			
	125	11	11,420	1.4W			
	220	8.8	23,210	2.0W			

※주 1. 정격전류의 허용범위 (23℃일때) : (mA)±15% (Allowable range of rated current (at 23℃) : (mA)±15%)  
 2. Coil 저항의 허용범위 (23℃일때) : (Ω)±10% (Allowable range of coil resistance (at 23℃) : (Ω)±10%)

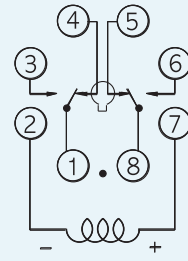
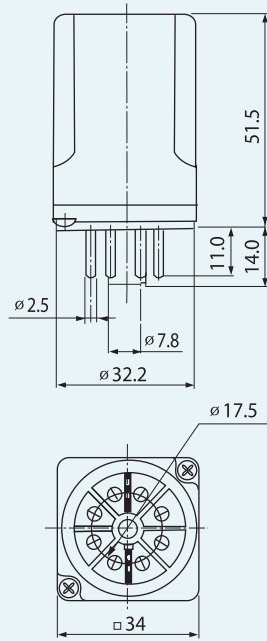
# 릴레이류

외형 치수도 및 내부 결선도 | Shape / Dimension Drawing & Inside Connection Diagram | (unit: mm)

## YS MR07-2P



※ 적용소켓 : YS SK08  
(Applied socket : YS SK08)

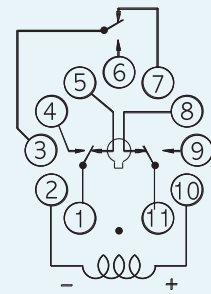
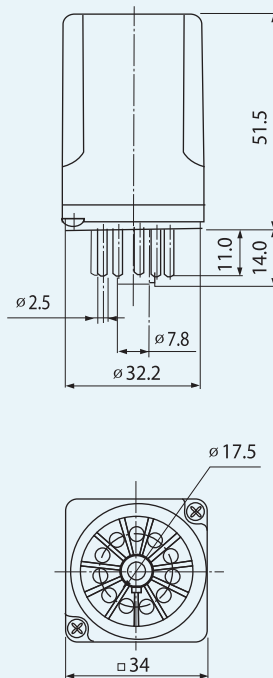


YS MR07-2P

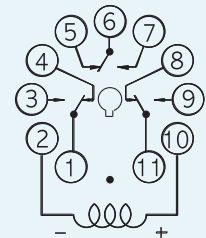
## YS MR05-3P



※ 적용소켓 : YS SK11  
(Applied socket : YS SK11)



YS MR05-3P



YS MR05-3P  
(K Type)

\*주문 Type (Ordered production)