



# Automotive Relays

Type	YD 620	YD 620Q
Appearance		
Dimension: LxWxH(mm)	26.5×26.5×24.5(+16)	35.5×35.5×45(+23)
Ordering information:	YD620 - 12 - A - B - R - P - S 1 2 3 4 5 6	YD620Q - 12 - A - R - S 1 2 4 6
1 Coil Voltage(VDC)	DC 6;12;24;48V	DC 6;12;24;48;
2 Contact Arrangement	A:1A; B:1B; C:1C; U:1U	1A,1C
3 Version(Bracket)	B:Mounted; M:Metal; Nil:No Bracket	with metal bracket
4 Coil Parallel with ( )	D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard
5 Terminal type	P:PCB type; Nil:Plug in type	/
6 Structure	S:Sealed version; Nil:Dust proof	S:Sealed version; Nil:Dust proof
Contact Material	AgNi, AgSnO <sub>2</sub>	AgNi, AgSnO <sub>2</sub>
Coil power(W )	1.6W,1.8W	1.6W,1.8W
Contact transfer Current (A)	<b>40A</b>	<b>40A</b>
Contact Rating	NO:40A 14VDC NC:30A 14VDC 1U/2A:2×20A/14VDC	NO:40A 14VDC NC:30A 14VDC
Max. Switching Voltage	75VDC	75VDC
Max. Switching Power	630W	630W
Ambient Temperature	-40℃ ~ +125℃	-40℃ ~ +125℃
"Dielectric Strength"	Between Contacts 50Hz 500VAC Between Coil and Contacts 50Hz 750VAC	50Hz 500VAC 50Hz 750VAC
Insulation Resistance	100mΩ	100mΩ
Contact Resistance(mΩ)	≤100mΩ	≤100mΩ
Electrical Life	1×10 <sup>5</sup>	1×10 <sup>5</sup>
Mechanical Life	1×10 <sup>7</sup>	1×10 <sup>7</sup>
* Mounting Layout (Bottom View)(mm)*		
Wiring diagram		
Weight(Approx.)	28g,30g(Mounted Bracket),31g(Metal Bracket)	48g
Cross Reference	Tyco V12134,Omron G8J	Tyco: VF4; Songchuan: 896H

# Automotive Relays



YD 622	YD 626	YD 626H
26.5×26.5×24.5(+16)	26.5×26.5×23.5(+16)	26.5×26.5×23.5(+16)
YD622 - 12 - A - B - R 1 2 3 4	YD626 - 12 - A - B - R - P - S 1 2 3 4 5 6	YD626H- 12 - A - B - R - P - S 1 2 3 4 5 6
DC 12;24;	DC 6;12;24;48V	DC 6;12;24;48V
1A	A:1A; B:1B; C:1C; U:1U	A:1A; C:1C
B:Mounted; M:Metal; Nil:No Bracket	B:Mounted; M:Metal; Nil:No Bracket	B:Mounted; M:Metal; Nil:No Bracket
D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard
/	P:PCB type; Nil:Plug in type	P:PCB type; Nil:Plug in type
Dust proof	S:Sealed version; Nil:Dust proof	S:Sealed version; Nil:Dust proof
AgNi, AgSnO2	AgNi, AgSnO2	AgNi, AgSnO2
1.6W,1.8W	1.6W,1.8W	1.6W,1.8W
<b>70A</b>	<b>50A</b>	<b>80A</b>
NO:70A 14VDC	NO: 50A/14VDC NC: 30A/14VDC	NO: 80A/14VDC NC: 60A/14VDC
75VDC	75VDC	75VDC
980W	770W	1200W
- 40°C ~ +125°C	- 40°C ~ +125°C	- 40°C ~ +125°C
50Hz 500VAC	50Hz 500VAC	50Hz 500VAC
50Hz 750VAC	50Hz 750VAC	50Hz 750VAC
100mΩ	100mΩ	100mΩ
≤100mΩ	≤100mΩ	≤100mΩ
1×10 <sup>3</sup>	1×10 <sup>3</sup>	1×10 <sup>3</sup>
1×10 <sup>7</sup>	1×10 <sup>7</sup>	1×10 <sup>7</sup>
35g	30g	38g
/	Hongfa V7A	Hongfa V7; Tyco: V23134-J/VF7



# Automotive Relays

Type	YD 630	YD 632
Appearance		
Dimension: LxWxH(mm)	28×28×25.5(+16)	28×28×25.5(+16)
Ordering information:	YD630 - 12 - A - B - R - P - 40 1 2 3 4 5 6	YD632 - 12 - A - B - R - P - 40 1 2 3 4 5 6
1 Coil Voltage(VDC)	DC 6;12;24;48V	DC 6;12;24;48V
2 Contact Arrangement	A:1A; B:1B; C:1C; U:1U	A:1A; B:1B; C:1C; U:1U
3 Version(Bracket)	B:Mounted; M:Metal; Nil:No Bracket	B:Mounted; M:Metal; Nil:No Bracket
4 Coil Parallel with( )	D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard
5 Terminal type	P:PCB type; Nil:Plug in type	P:PCB type; Nil:Plug in type
6 Structure	40:40A; 60:60A	40:40A; 60:60A
Contact Material	AgNi, AgSnO2	AgNi, AgSnO2
Coil power(W )	1.6W,1.8W	1.6W,1.8W
Contact transfer Current (A)	40A	40A
Contact Rating	NO:40A 14VDC NC:30A 14VDC 1U/2A : 2×20A/14VDC	NO:40A 14VDC NC:30A 14VDC 1U/2A : 2×20A/14VDC
Max. Switching Voltage	75VDC	75VDC
Max. Switching Power	840W	840W
Ambient Temperature	-40°C ~ +125°C	-40°C ~ +125°C
"Dielectric Strength"	Between Contacts 50Hz 500VAC	50Hz 500VAC
	Between Coil and Contacts 50Hz 750VAC	50Hz 750VAC
Insulation Resistance	100mΩ	100mΩ
Contact Resistance(mΩ)	≤100mΩ	≤100mΩ
Electrical Life	1×10 <sup>5</sup>	1×10 <sup>5</sup>
Mechanical Life	1×10 <sup>7</sup>	1×10 <sup>7</sup>
"Mounting Layout (Bottom View)(mm)"		
Wiring diagram		
Weight(Approx.)	32g,33g	32g,33g
Cross Reference	Tyco: VF4/ V23134	Tyco: VF4/ V23134



YD 634	YD 634-Y	YD 636
28×28×25.5(+16)	∅40×37.5	28×28×25.5(+16)
YD634 - 12 - A - M - R - P - S - 40 1 2 3 4 5 6	YD634-Y - 12 - A - R - S - 40 1 2 4 5	YD636 - 12 - A - M - R - L - 40 1 2 3 4 5 6
DC 6;12;24;48V	DC 6;12;24;48V	DC 6;12;24;48V
A:1A; B:1B; C:1C; U:1U	A:1A; B:1B; C:1C; U:1U	A:1A; B:1B; C:1C; U:1U
B:Mounted; M:Metal; Nil:No Bracket	/	B:Mounted; M:Metal; Nil:No Bracket
D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard
P:PCB type; Nil:Plug in type	/	L:with LED light; Nil:without LED light
S:Sealed version; Nil:Dust proof	S:Sealed version; Nil:Dust proof	
AgNi, AgSnO2	AgNi, AgSnO2	AgNi, AgSnO2
1.6W,1.8W	1.6W,1.8W	1.6W,1.8W
<b>40A</b>	<b>40A</b>	<b>40A</b>
NO:40A 14VDC NC:30A 14VDC 1U/2A : 2×20A/14VDC	NO:40A 14VDC NC:30A 14VDC	NO:40A 14VDC NC:30A 14VDC
75VDC	75VDC	75VDC
840W	840W	840W
-40°C ~ +125°C	-40°C ~ +125°C	-40°C ~ +125°C
50Hz 500VAC	50Hz 500VAC	50Hz 500VAC
50Hz 750VAC	50Hz 750VAC	50Hz 750VAC
100mΩ	100mΩ	100mΩ
≤100mΩ	≤100mΩ	≤100mΩ
1×10 <sup>5</sup>	1×10 <sup>5</sup>	1×10 <sup>5</sup>
1×10 <sup>7</sup>	1×10 <sup>7</sup>	1×10 <sup>7</sup>
34g, 40g(Metal bracket)	35g	35g
Tyco: VF4/ V23134; Songchuan:896H	/	Tyco: VF4/ V23134



# Automotive Relays

Type	YD 640	YD 641
Appearance		
Dimension: LxWxH(mm)	29×29×26.5(+16)	29×29×26.5(+16)
Ordering information:	YD640 - 12 - A - M - R - S - P 1 2 3 4 5 6	YD641 - 12 - A - M - R 1 2 3 4
1 Coil Voltage(VDC)	DC 6;12;24	DC 6;12;24
2 Contact Arrangement	A:1A; B:1B; C:1C	A:1A; B:1B; C:1C
3 Version(Bracket)	B:Mounted; M:Metal; Nil:No Bracket	with metal bracket
4 Coil Parallel with ( )	D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard
5 Terminal type	P:PCB type; Nil:Plug in type	/
6 Structure	S:Sealed version; Nil:Dust proof	/
Contact Material	AgNi, AgSnO2	AgNi, AgSnO2
Contact power(W )	1.6W,1.8W	1.6W,1.8W
Contact transfer Current (A)		
Contact Rating	NO:80A 14VDC NC:60A 14VDC	NO:40A 14VDCNC:30A 14VDC
Max. Switching Voltage	75VDC	75VDC
Max. Switching Power	1200W	1200W
Ambient Temperature	-40℃ ~ +125℃	-40℃ ~ +125℃
"Dielectric Strength"	Between Contacts 50Hz 500VAC Between Coil and Contacts 50Hz 750VAC	50Hz 500VAC 50Hz 750VAC
Insulation Resistance	100mΩ	100mΩ
Contact Resistance(mΩ)	≤100mΩ	≤100mΩ
Electrical Life	1×10 <sup>5</sup>	1×10 <sup>5</sup>
Mechanical Life	1×10 <sup>7</sup>	1×10 <sup>7</sup>
"Mounting Layout (Bottom View)(mm)"		
Wiring diagram		
Weight(Approx.)	39g,42g(Insulation Bracket),47g(Metal Bracket)	48g
Cross Reference	Tyco:V23134-J/ VF7	Tyco:V23134-J/ VF7

# Automotive Relays



YD 648	YD 650	YD 651
35×33×35	23.5×15.5×26.5	20.5×15.5×22.5
Yd648 - 12 - A - R - P 1 2 4 6	Yd650 - 12 - A - R - P - S 1 2 4 5 6	YD651 - 12 - A - R - P 1 2 4 5
DC 6;12;24	DC 6;12;24	DC 6;12;24
A:1A; B:1B; C:1C	A:1A; B:1B; C:1C	A:1A; B:1B; C:1C
/	/	/
D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard	D:Diode; R:resistance; Nil:Standard
P:PCB type; Nil:Plug in type	P:PCB type; Nil:Plug in type	P:PCB type; Nil:Plug in type
100:100A; 150:150A	S:Sealed version; Nil:Dust proof	S:Sealed version
AgNi, AgSnO2	AgNi, AgSnO2	AgNi, AgSnO2
2.9W	1.5W,1.6W	1.5W,1.6W
<b>150A</b>	<b>35A</b>	<b>40A</b>
NO:150A 14VDC NC:100A 14VDC	NO:35A 14VDC NC:25A 14VDC	NO:40A 14VDC NC:30A 14VDC
75VDC	75VDC	75VDC
2100W	490W	630W
- 40°C ~ +125°C	- 40°C ~ +125°C	- 40°C ~ +125°C
50Hz 500VAC	50Hz 500VAC	50Hz 500VAC
50Hz 750VAC	50Hz 750VAC	50Hz 750VAC
100mΩ	100mΩ	100mΩ
≤100mΩ	≤100mΩ	≤100mΩ
1×10 <sup>3</sup>	1×10 <sup>3</sup>	1×10 <sup>3</sup>
1×10 <sup>7</sup>	1×10 <sup>7</sup>	1×10 <sup>7</sup>
61g	18.5g	20g
/	Tyco:V23074/VFM; Ormon:G8HN	Tyco F



# Automotive Relays

Type		YD 652	YD 656
Appearance			
Dimension: LxWxH(mm)		25.7×23.3×44.7(+22.5)	Open:24×20×19, Sealed: 26.5×21.5×21
Ordering information:		YD652 - 12 - A - R - P - S 1 2 4 5 6	YD656 - 12 - A - 11 - S 1 2 3 6
1	Coil Voltage(VDC)	DC 6;12;24	DC 6;9;12;24
2	Contact Arrangement	A:1A; B:1B; C:1C	A:1A; B:1B; C:1C
3	Version(Bracket)	/	/
4	Coil Parallel with ( )	D:Diode; R:resistance; Nil:Standard	/
5	Terminal type	P:PCB type; Nil:Plug in type	11:European type; 8:American type
6	Structure	S:Sealed version; Nil:Dust proof	S:Sealed version; Nil:Open type
Contact Material		AgNi, AgSnO2	AgNi, AgSnO2
Coil power(W )		1.6W,1.8W	1.6W,1.8W
Contact transfer Current (A)		35A	45A
Contact Rating		NO:35A 14VDC NC:25A 14VD	1A: 45A 14VDC 1C: 40A/30A 14VDC
Max. Switching Voltage		75VDC	75VDC
Max. Switching Power		490W	630W
Ambient Temperature		-40°C ~ +125°C	-40°C ~ +125°C
"Dielectric Strength"	Between Contacts	50Hz 500VAC	50Hz 500VAC
	Between Coil and Contacts	50Hz 750VAC	50Hz 750VAC
Insulation Resistance		100mΩ	100mΩ
Contact Resistance(mΩ)		≤100mΩ	≤100mΩ
Electrical Life		1×10 <sup>5</sup>	1×10 <sup>5</sup>
Mechanical Life		1×10 <sup>7</sup>	1×10 <sup>7</sup>
"Mounting Layout (Bottom View)(mm)"			
Wiring diagram			
Weight(Approx.)		25g	19g(open type),21g(Sealed)
Cross Reference		/	Tyco V23076/VKP, Omron:G8PE, Fujitsu:FRL-274



YD 660	YD 664	YD 666
Open:15.5×13×18, Sealed:17.5×15×20	19×15.6×15.3	15.5×12.5×13.5
YD660 - 12 - A - S 1 2 6	YD664 - 12 - A 1 2	YD666 - 12 - A 1 2
DC 6;9;12;24	DC 6;12;24	DC 6;12;24
A:1A; C:1C; U:2A; W:2C	A:1A; B:1B; C:1C	A:1A; C:1C
/	/	/
/	/	/
/	/	/
S:Sealed version; Nil:Open type	S:Sealed version	S:Sealed version
AgNi, AgSnO2	AgNi, AgSnO2	AgNi, AgSnO2
1.0W,1.2W	0.64W,0.8W	0.6W,0.8W
<b>20A</b>	<b>20A</b>	<b>20A</b>
1A:20A 14VDC; 1C:20/10A 14VDC; 1U:2x15A 14VDC; 1W:2x15A/10A 14VDC	20A 16VDC	20A 16VDC
75VDC	75VDC	75VDC
280W, 2x280W	280W	280W
-40°C ~ +105°C	-40°C ~ +105°C	-40°C ~ +105°C
50Hz 500VAC	50Hz 500VAC	50Hz 500VAC
50Hz 750VAC	50Hz 750VAC	50Hz 750VAC
100mΩ	250mΩ	250mΩ
≤100mΩ	≤100mΩ	≤100mΩ
1×10 <sup>5</sup>	1×10 <sup>5</sup>	1×10 <sup>5</sup>
1×10 <sup>7</sup>	1×10 <sup>7</sup>	1×10 <sup>7</sup>
9g(open type),12g(Sealed)	10g	6g
Tyco V23072/VKP; Songchuan:861;Zettler:AZ975/AZ976	Matsushita:JSM; Tyco:T72M; Omron:G8U	Fujitsu: FBR51; Omron:G8QN