

EHJ600A

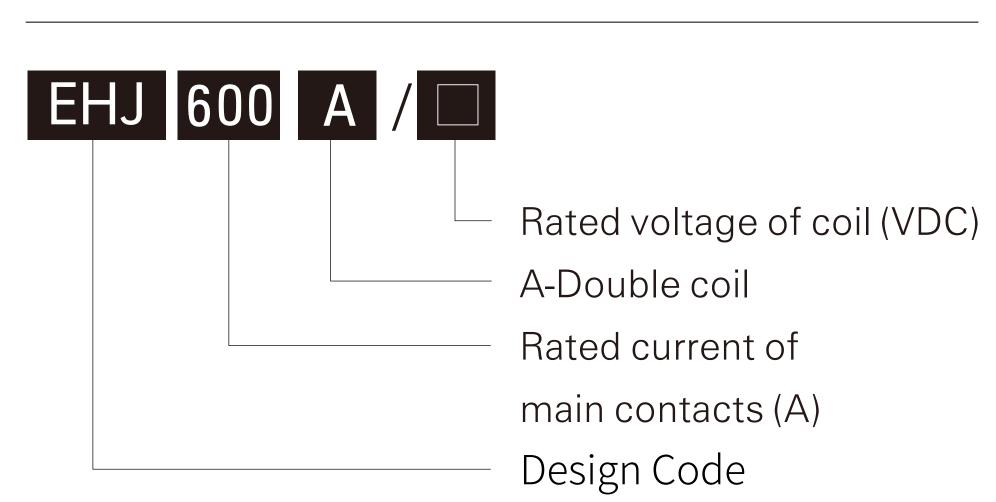
Application

The products are mainly used to control switching on/off of power supply of storage battery car, electric forklift, electric winch, electric car, excavator, air conditioner in vehicle, power source for communication facility.

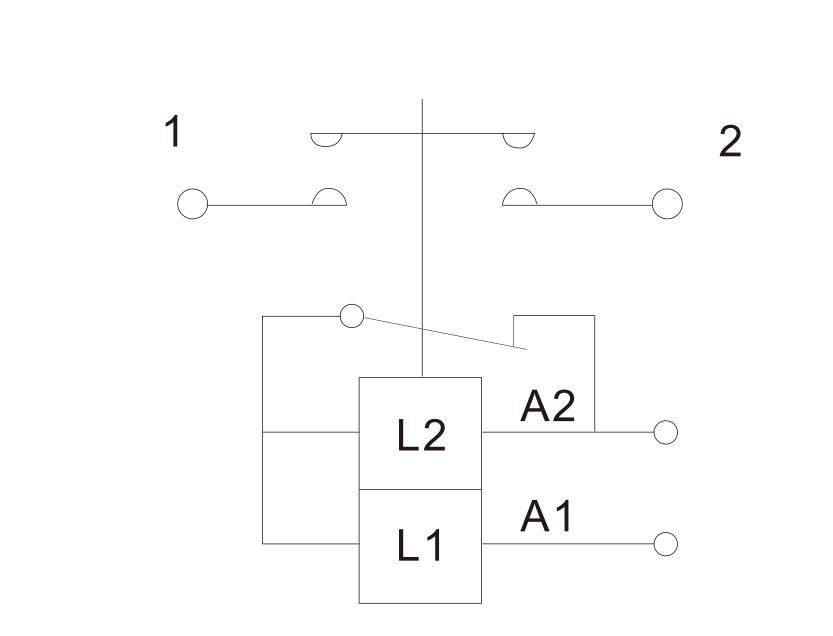
Ordering Notice

For example: EHJ600A/24V
The DC contactor of main contact is one NO, rated voltage not more than DC 80V, current 600A, coil voltage is DC12V

Model and Meanings



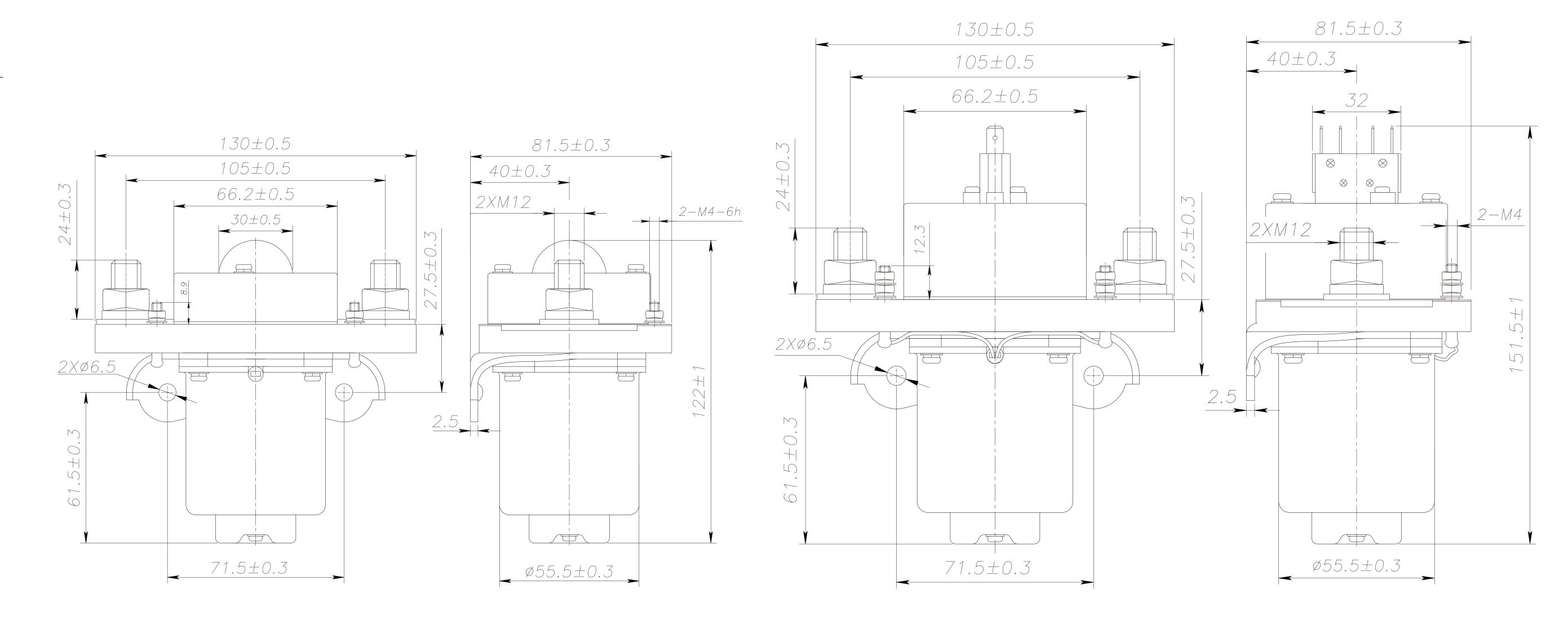
Electric Wiring Diagram



EHJ600A

Rated voltage of contacts (DC)	Basic Technical Parameters (at n	ormal conditions	s)			
Rated voltage of contacts (DC)			Electi	ric Parameters		
Rated current of contacts (A) 600 Dielectric withstand voltage 1500V,p.f. 1min, no breakdown Voltage drop on contacts (mV) ≤80 (at 100A) Electric cycles (10f) ≥2 Coil Voltage specification (DC) 12V, 24V, 48V, 72V etc Mechanical cycles (10f) ≥30 DC power consumption of coil (W) See coil parameter table Temperature rise on outgoing terminal ≤65 Pickup voltage (DC) ≥75%Us Temperature rise of coil (K) ≤85 Release voltage (DC) ≥5%Us; ≤40%Us Insulation grade of enameled wire Class B (130°C) Pickup time(ms) ≤30 Working duty Continuous operating duty Mechanical/Ambient Conditions Torque of outgoing terminal on contact M12(N,m) >35.0N appropriate Protection grade IP50 Torque of outgoing terminal on contact M12(N,m) >1.2N appropriate Mounting methods Freely Working temperature (-25·55)*C Vibration Sine shock: 2.5g, (5·-50) Hz Mounting altitude ≤2Km Impact 50g,11ms(Half sine) Voltage(V) Coil resistance(1 – 10%)Q Start up	Contact type	SPST-NO		Instantaneous maxi (closing) current	7le,≤1s	
Voltage drop on contacts(mV)	Rated voltage of contacts (DC)	≤80V		Insulation resistance($M\Omega$)	≥100	
Coll voltage specification(DC) 12V, 24V, 48V, 72V etc Mechanical cycles (10°) ≥30 DC power consumption of coil (W) See coil parameter table Temperature rise on outgoing terminal <85	Rated current of contacts (A)	600		Dielectric withstand voltage	1500V,p.f. 1min, no breakdown	
DC power consumption of coil (W) See coil parameter table Temperature rise on outgoing terminal and provided the provided set of coil (K) ≪65 Pickup voltage(DC) ≈75%Us Temperature rise of coil(K) ≈85 Release voltage(DC) ≈5%Us; ≈40%Us Insulation grade of enameled wire and provided for contact of contact of contact or contact MIZ(N,m) AgCuO(10)/Cu Continuous operating duty Mechanical/Ambient Conditions Torque of outgoing terminal on contact MIZ(N,m) ≈35.0N appropriate Protection grade Ip50 Intervention of coil M4(N,m) ≈1.2N appropriate Mounting methods Freely Working temperature (-25~+55)°C Vibration Sine shock: 2.5g, (5~50) Hz Mounting altitude ≈2Km Impact 50g,11ms(Half sine) Working temperature Coil resistance(1 ± 10%)Ω Voltage(V) Coil resistance(1 ± 10%)Ω Voltage(V) Coil resistance(1 ± 10%)Ω Start up Keep Voltage(V) Coil resistance(1 ± 10%)Ω Start up Keep 1.45 23.0	Voltage drop on contacts(mV)	≤80 (at 100A)		Electric cycles (10 ⁴)	≥2	
Pickup voltage(DC)	Coil voltage specification(DC)	12V, 24V, 48V, 72V etc		Mechanical cycles (10 ⁴)	≥30	
Release voltage(DC) ≥5%Us; ≤40%Us Insulation grade of enameled wire Class B (130°C) Pickup time(ms) ≤30 Material of contact AgCuO(10)/Cu Release time(ms) ≤50 Working duty Continuous operating duty	DC power consumption of coil (W)	See coil parameter table		Temperature rise on outgoing terminal	≤65	
Pickup time(ms) $≤30$ Material of contact AgCuO(10)/Cu Continuous operating duty Mechanical/Ambient Conditions	Pickup voltage(DC)	≤75%Us		Temperature rise of coil(K)	≤85	
Release time(ms) $ < 50 $ Working duty Continuous operating duty **Mechanical/Ambient Conditions** Torque of outgoing terminal on contact M12(N.m)	Release voltage(DC)	≥5%Us;≤40%Us		Insulation grade of enameled wire	Class B (130°C)	
Mechanical/Ambient Conditions Torque of outgoing terminal on contact M12(N.m) >35.0 N appropriate Protection grade IP50 Torque of outgoing terminal on coil M4(N.m) >1.2 N appropriate Mounting methods Freely Working temperature $(-25\sim+55)$ °C Vibration Sine shock: 2.5g, (5~50) Hz Mounting altitude ≤2Km Impact 50g,11ms(Half sine) Conversion Table for Coil Specification(20°C) Voltage(V) Coil resistance(1±10%)Ω Voltage(V) Coil resistance(1±10%)Ω Start up Keep Start up Keep 12 1.45 23.0 60 37.5 554.2 24 5.2 111.5 72 24.8 1037.3	Pickup time(ms)	≤30		Material of contact	AgCuO(10)/Cu	
Torque of outgoing terminal on contact M12(N.m) $>35.0\text{N appropriate}$ Protection grade IP50 Torque of outgoing terminal on coil M4(N.m) $>1.2\text{N appropriate}$ Mounting methods Freely Working temperature $(-25 \sim +55)^{\circ}\text{C}$ Vibration Sine shock: 2.5g , $(5 \sim 50)$ Hz Mounting altitude $\leq 2\text{Km}$ Impact 50g , 11ms (Half sine) Voltage(V) Coil resistance($1\pm 10\%$) Ω Voltage(V) Coil resistance($1\pm 10\%$) Ω Start up Keep 12 1.45 23.0 60 37.5 554.2 24 5.2 111.5 72 24.8 1037.3	Release time(ms)	≤50		Working duty	Continuous operating duty	
Torque of outgoing terminal on coil M4(N.m) \Rightarrow 1.2N appropriate Mounting methods Freely Working temperature $(-25 \sim +55)^{\circ}C$ Vibration Impact Sine shock: 2.5g, (5-50) Hz Mounting altitude \leq 2Km Impact \Rightarrow 50g, 11ms(Half sine) Voltage(V) Coil resistance(1±10%) Ω Start up Keep 12 1.45 23.0 60 37.5 554.2 24.8 1037.3			Mechanical	/Ambient Conditions		
Working temperature $(-25 \sim +55)^{\circ}$ C Vibration Sine shock: $2.5g$, $(5 \sim 50)$ Hz Mounting altitude ≤ 2 Km Impact $50g$, 11 ms(Half sine) Conversion Table for Coil Specification(20° C) Voltage(V) Coil resistance($1\pm 10\%$) Ω Voltage(V) Coil resistance($1\pm 10\%$) Ω Start up Keep 12 1.45 23.0 60 37.5 554.2	Torque of outgoing terminal on contact M12(N.m)	≯35.0N approp	oriate	Protection grade	IP50	
Mounting altitude $\leq 2 \text{Km}$ Impact $50 \text{g,} 11 \text{ms}(\text{Half sine})$	Torque of outgoing terminal on coil M4(N.m)	≯1.2N appropr	riate	Mounting methods	Freely	
	Working temperature	(-25~+55)°C		Vibration	Sine shock: 2.5g, (5~50) Hz	
Voltage(V) Coil resistance(1±10%) Ω Voltage(V) Coil resistance(1±10%) Ω Start up Keep 12 1.45 23.0 60 37.5 554.2 24 5.2 111.5 72 24.8 1037.3	Mounting altitude	≤2Km		Impact	50g,11ms(Half sine)	
Start up Keep Start up Keep 12 1.45 23.0 60 37.5 554.2 24 5.2 111.5 72 24.8 1037.3			Conversion Table 1	for Coil Specification(20°C)		
12 1.45 23.0 60 37.5 554.2 24 5.2 111.5 72 24.8 1037.3	Voltage(V)	Coil resistance $(1\pm10\%)\Omega$		Voltage(V)	Coil resistance $(1\pm10\%)\Omega$	
24 5.2 111.5 72 24.8 1037.3		Start up	Keep		Start up	Keep
	12	1.45	23.0	60	37.5	554.2
48	24	5.2	111.5	72	24.8	1037.3
	48	14.8	450.0	80	49.2	1066.7

Outline and Mounting Picture



EHJ600A