Heavy Duty Relay 12 V 4 Pins 200 A with plastic bracket, continuous working

HPR10-204-1

Description

A remote control switch for auto motive users, using mainly as a starter, closing load with a 12 V rated voltage. All products can be customized in two ways: by printing your logo on the side of the case or moulding your logo on the case.

Technical data

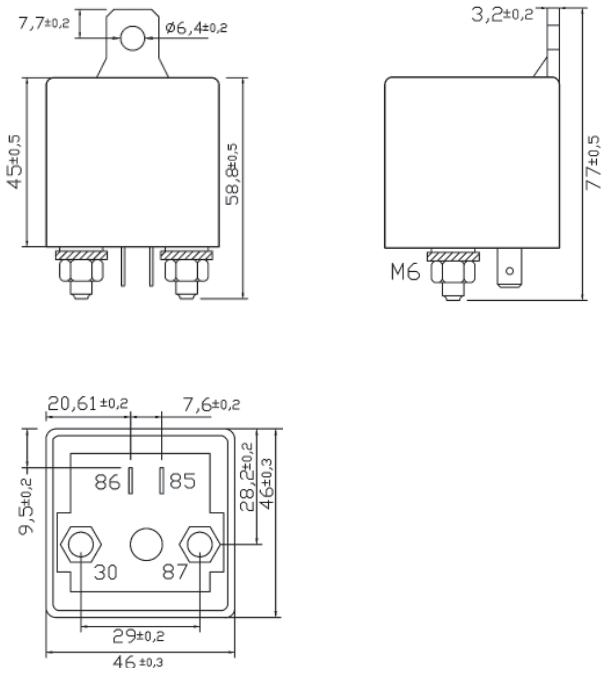
Nominal Voltage	U_N	12 V
Operating Voltage	U_{OP}	9 V…16 V
Pull- In Voltage	U_I	≤ 9 V @ TP
Pull-Off Voltage	U_O	≥ 2,5 V @ TP
Test Voltage	U_P	13 V ± 0,4 V
Test Temperature	T_P	23 °C ± 2 °C
Coil Current	I_C	600 mA ± 5 %
Nominal Current	I_N	200 A Intermittent Working 10 s ON / 10 s OFF 120 A permanent working
Short Time Current	I_M	500 A / 1 sec @ TP
Voltage Drop	Δ_U	≤ 100 mV @ IN
Operating Temperature	T_{OP}	-40 °C…+100 °C
Storage Temperature	T_{STO}	+125 °C
Life Time		100.000 times/TP @ IN 10"ON / 10"OFF

Materials

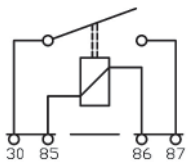
Baseplate	Nylon PA 6,6 + 30 % black	
Cap	Nylon PA 6,6 + 15 % black	
Terminals	Cu Zn	Fastons 85-86 (6,3x0,8 mm) M6 30-87 Nut M6 Fe (Zinc)
Screw Terminals	Cu Zn M6 30-87 Nut M6 Fe (Zinc)	
Contacts	ø 6 mm FIXED - ø 7 mm MOBILE: Ag SnO2 ALLOY	
Optionals	Resistance / Diode	
General Description	Sealed and washable	
Bobbin Coil	4500 Spire ø 0,095 S 155°	
Spring	Cu Be 17410 ½ HT	
Braid	Cu flexible with double sealing	

HPR10-204-1
Normally Open

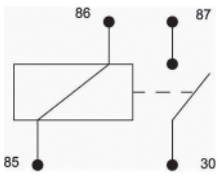
Dimensions

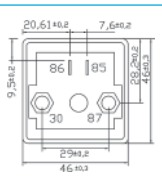
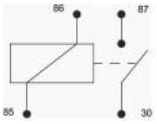


Wiring diagram



Technical diagram



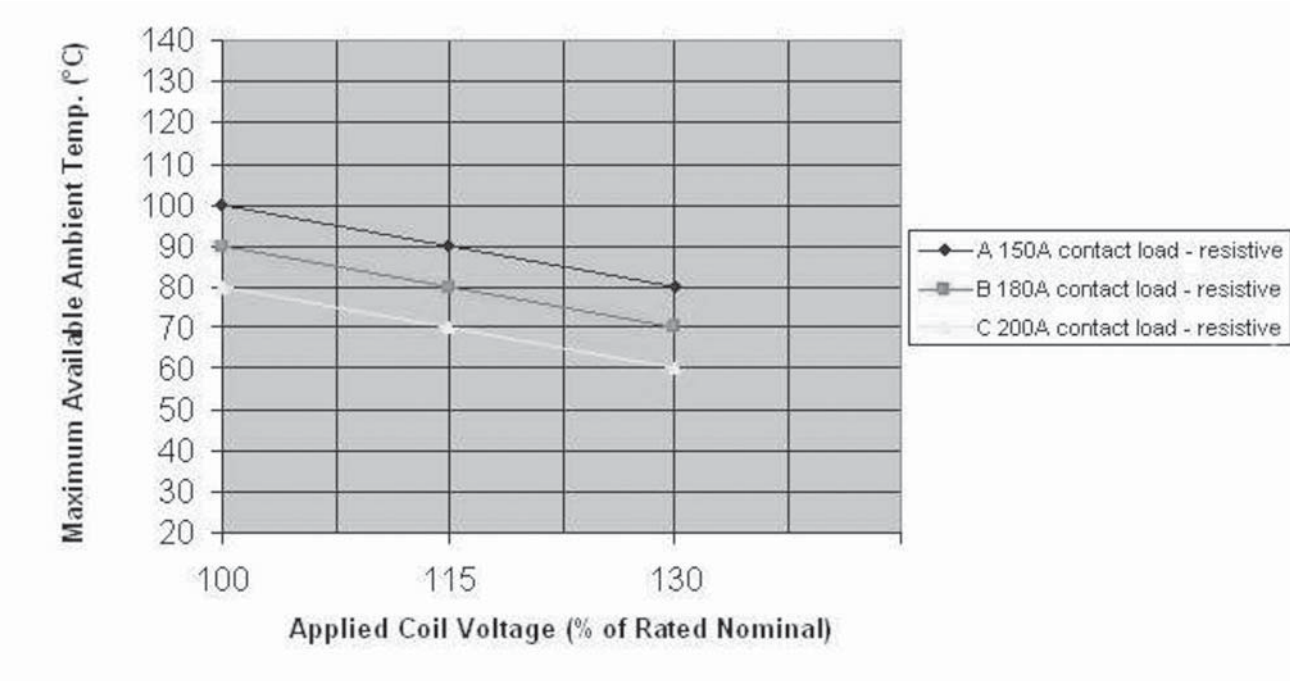
Our code	Relay	Voltage	Max Intesity	Pins	Info	Connection Board	Technical Diagram
HPR10-204-1	Normally Open	12 V	200 A	4	Plastic Bracket		

Functions Parameter

Nominal Current	200 A
Resistive Load	N.O. 200A 13V DC
Coil Parameters	

Rated Voltage	Rated Current ±10 % at 20 °C (mA)	Coil Resistance ±10 % at 20 °C (Ω)	Max Continuous Voltage at 85 °C	Pick Up Voltage (Max) at 23 °C	Drop Up Voltage (Min) at 23 °C	Power Consumation at Rated Voltage
12	600	20	133% of rated voltage	75 % of rated voltage	20% of rated voltage	≈ 6 W

Function Details

Contact Voltage Drop	MAX 100 mV a 200 A
Operate Time	10 ms MAX
Release Time	10 ms MAX
Insulation Time	20 MΩ MIN (500 V DC)
Dieletric Strenght	AC 500 V 50 Hz 1 min
Vibrition Resistance	10 ~ 500 Hz 5.0 G
Life Expectancy Mechanical: Electrical:	 1.000.000 Cycles (10 sec ON 10 sec OFF) 100 A of resistance
Temperature Operatine Range	 -40° C... +100° C
Storage Temperature	MAX 125 °C

Max Ambient Temperature Available Vs Coil Voltage for a continuous working