IO

According to Solenoid coil datasheet there are some output configurations:

12V DC @ 4.1W -> 342 mA

24V DC @ 4.5W -> 188 mA

42V DC @ 5.5W -> 131 mA

110V AC @ 9VA -> 6.3W max -> 58mA

230V AC @ 9VA -> 6.3W max -> 28mA

240V AC @ 9VA -> 6.3W max -> 27mA

24V AC @ 9VA -> 6.3W max -> 263mA

48V AC @ 9VA -> 6.3W max -> 132mA

42V AC @ 9VA -> 6.3W max -> 150mA

So, maximum current is up to 342 mA.

Back e.m.f. E= (-L\*ΔI)/Δt =

Lets choose relay: goto mouser.com -> General Purpose Relays, set filter to “Mounting Style: PCB Mount” and get the cheapest one. Check for other attributes from specification.

references

1. FESTO Solenoid coils. <https://www.festo.com/media/pim/260/D15000100123260.PDF>