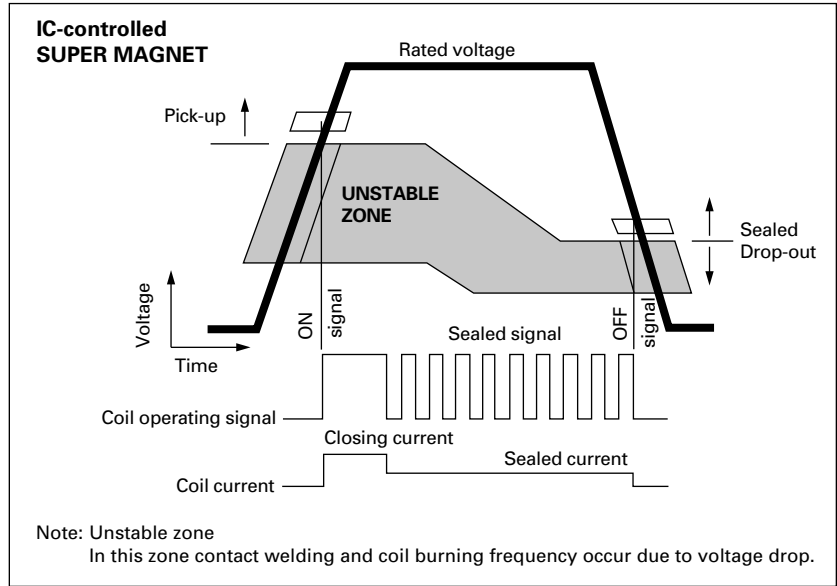


SUPER MAGNET THEORY & EXPLANATION

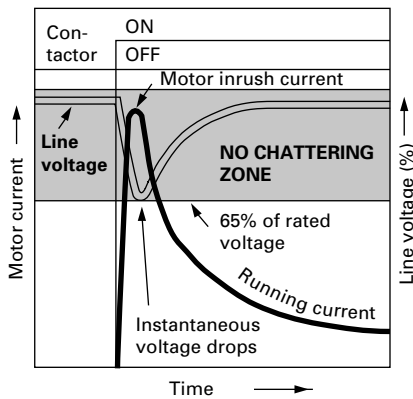
ADVANTAGES OF SUPER MAGNET

■ POSITIVE PICK-UP AND DROP-OUT

The SUPER MAGNET operation is electronically controlled. There is no unstable zone as will be seen in the diagram—an outstanding feature that other contactors can not provide. Chattering is a phenomenon which occurs when the gravitational force of the starter magnet decreases through the line voltage drop at the time of motor starting. This may cause damage such as contact welding or coil burning. The SUPER MAGNET holds without chattering even if the line voltage drops to 65% of its rated value, so preventing this type of trouble.

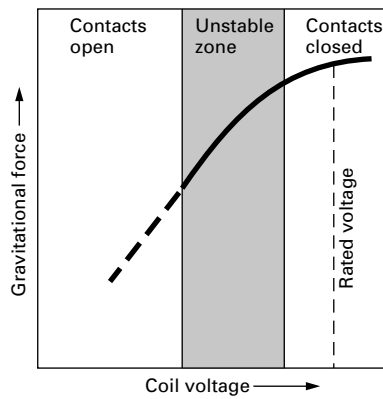


Motor starting

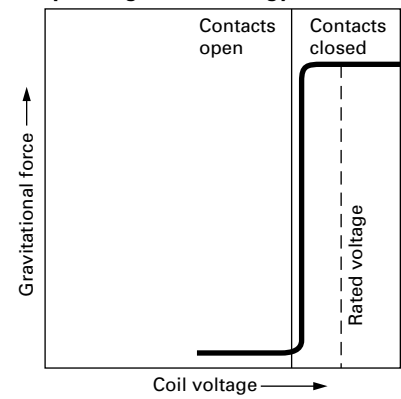


Note: No chattering occurs even if instantaneous voltage drops 65% of rated voltage.

Conventional contactors



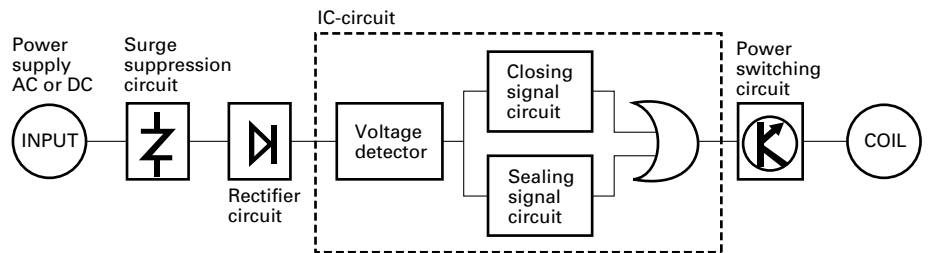
Contactors featuring Super Magnet technology



Note: Since SC series contactors are electronically controlled there is no unstable zone.

■ OPERATION ON BOTH AC AND DC INPUTS

The rated operational voltage range of the Super Magnet series contactors has been greatly expanded. They operate on both AC (50/60Hz) and DC inputs.



Coils (3F to 5H)

Rated voltage	Rated coil voltage, frequency	
	AC	DC
24V	24-25V 50/60Hz	24V
48V	48-50V 50/60Hz	48V
100V	100-127V 50/60Hz	100-110V
200V	200-250V 50/60Hz	200-240V
300V	265-347V 50/60Hz	-
400V	380-450V 50/60Hz	-
500V	460-575V 50/60Hz	-

Operation

