

Brief Introduction To AS AC Tractive Electromagnets

CHEO ELECTRIC

AS series AC tractive electromagnets adopt the structure of trunk piston. Quality silicon steel sheet and coils with glass heat-resistant belt processed by dipping in paint, it's applicable in the circuit with 50Hz or 60 Hz, and rated voltage up to 415V for local and remote control of the automatic system of mechanical equipments as well as various operating mechanisms.

Various Sorts For Various Purposes

There are more than ten various sorts of standard types according to different combinations of attractive force from 5.88N (0.6kgf) to 68.6N (7kgf) and travel from 10mm to 40mm.

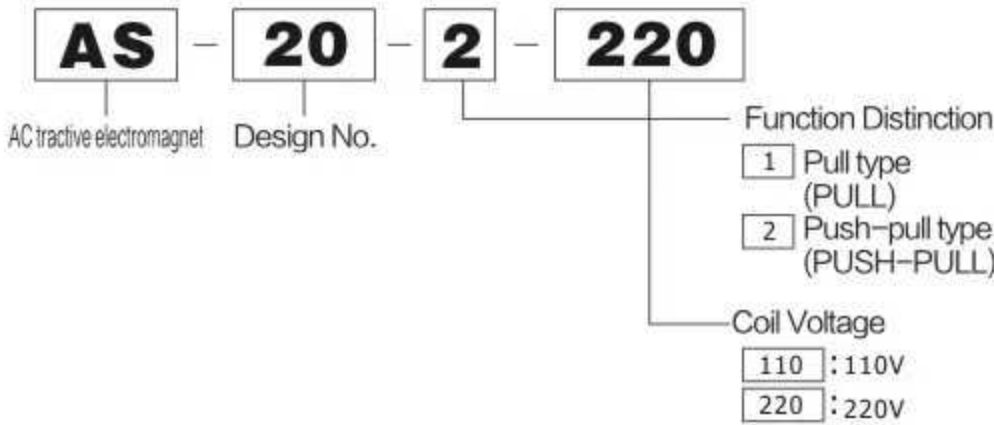
Outstanding Insulating Performance Of Framework

By the technology of glass heat-resistant belt process (equivalent to type A insulation), the product has outstanding heat resistance, and impact resistance, etc.

Simple Installation

With the options of horizontal installation, vertical installation and both-side installation, simple installation is achieved by fixing the installing hole in the side plate.

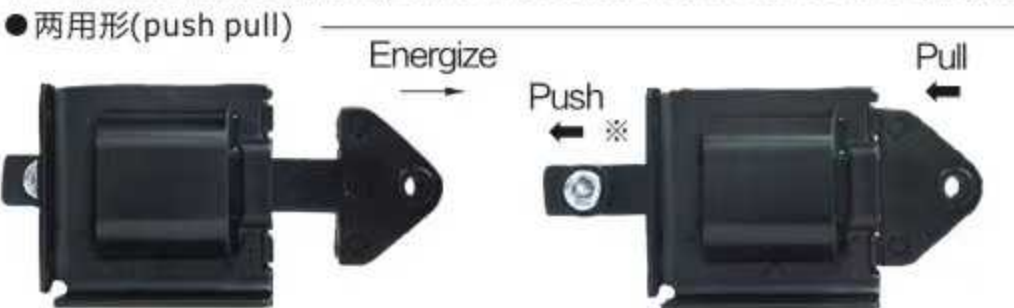
Structure Of Model



Purpose Of Two Sorts

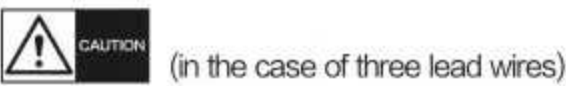
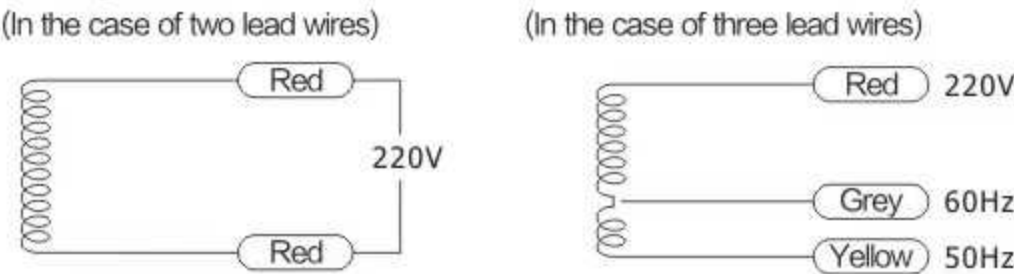


The trunk piston, after being energized, can work to pull, which is therefore called pull type.



The movable iron core can't return automatically, so it needs to assemble springs and others to make it return.

Wiring methods



To avoid the coil being burnt, please don't use wires of 50Hz (yellow) - 60Hz (grey) that are short connected. Be sure to wrap the lead wire joint for insulation with insulating tapes when the grey (60Hz) wire is not used.

AS Traction Electromagnet Model List

AS Series

Model	Action Forms		Rated Travel (mm)	Rated suction N(kgf)	Rated voltage (V)	Rated cycle (Hz)	Insulation Type	Insulation Resistance	Frequency Voltage	Temperature Rise	Rated operating frequency (Electricity rate of 95%)	Movable iron core weight (g)	Total weight (g)
	PUSH-PULL	PULL											
AS-03			10	5.8 (0.6)	AC220 or AC110 AC380 AC24 AC36 Non-standard voltages can be customized	50/60Hz Common (2 lead wire)	Type A insulation	DC 500V 50MΩ above	AC 1500V 1minute	85℃ below	1500 time/hour	73	240
AS-04				7.8 (0.8)								96	290
AS-05			15	9.8 (1.0)							1200 time/hour	100	385
AS-10				14.7 (1.5)								125	455
AS-20			20	29.4 (3.0)		50 or 60Hz (3 lead wire)					720 time/hour	235	785
AS-30				39.2 (4.0)								360	1205
AS-40				49.0 (5.0)							550	1980	
AS-50				35									68.6 (7.0)

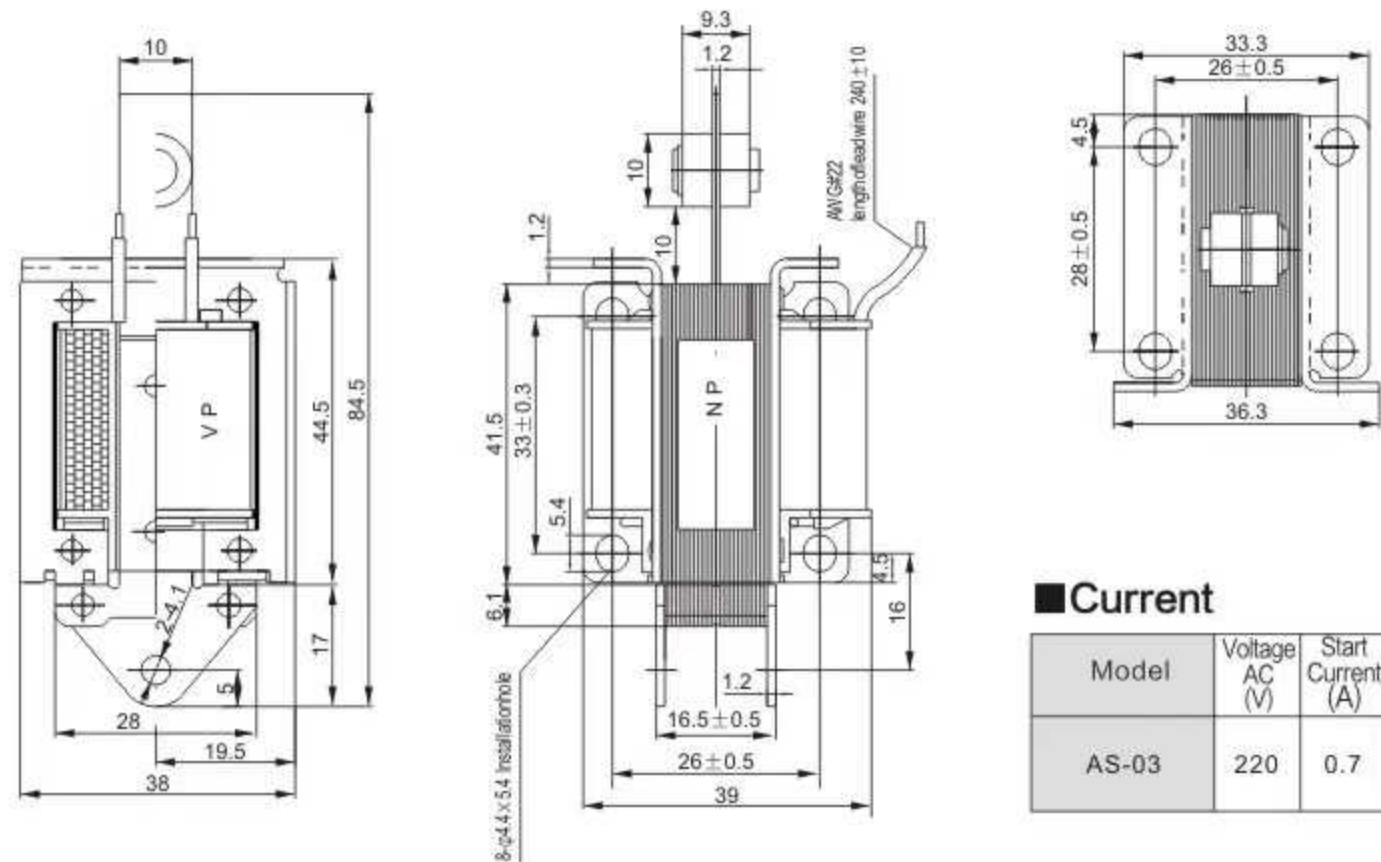
AS Traction Electromagnet

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● NP: Model label ● VP: Voltage label
● Push-pull type(PUSH-PULL) ● Pull type(PULL)

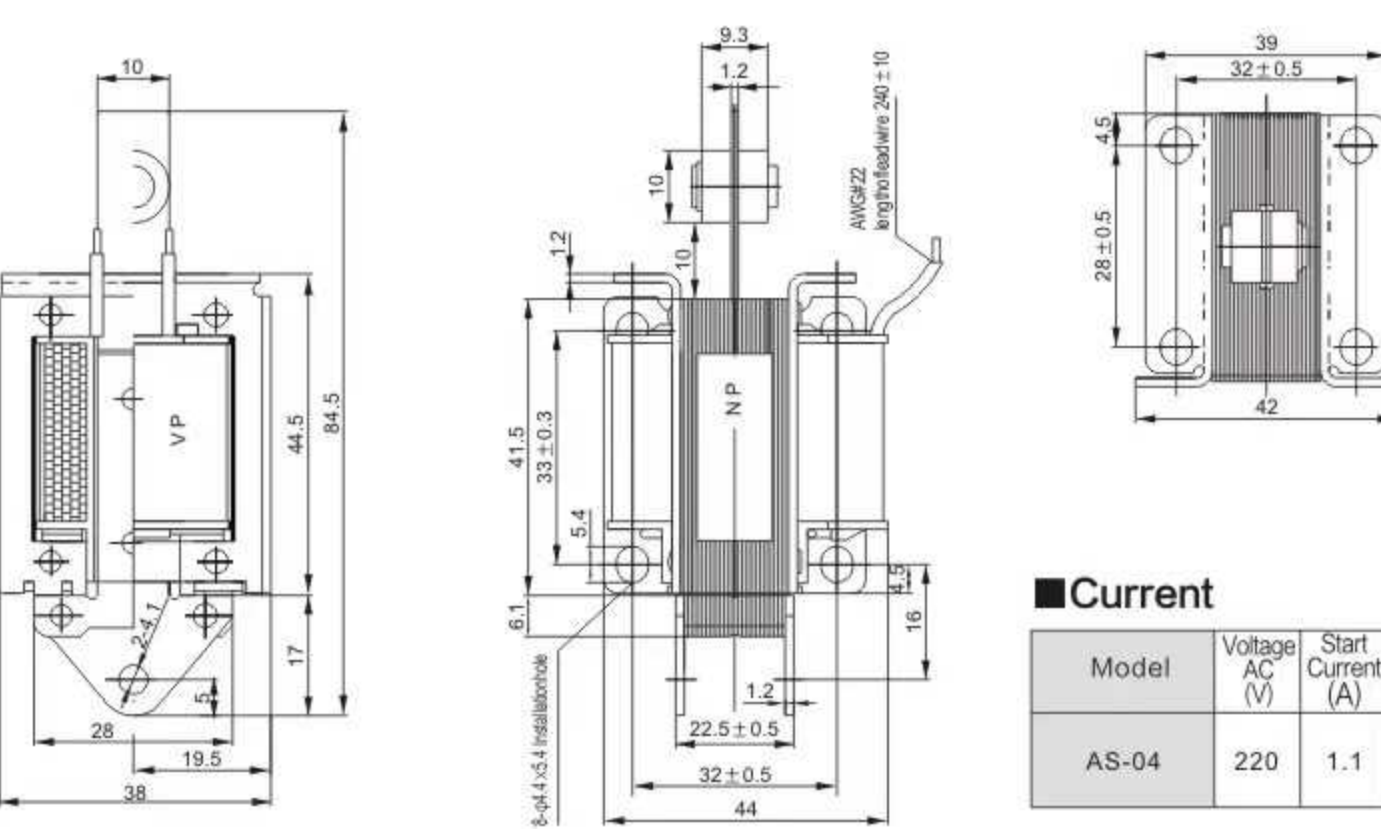
AS-03



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	
				Rated Travel	
AS-03	220	0.7	0.09	5.8N(0.6kgf)/10mm	

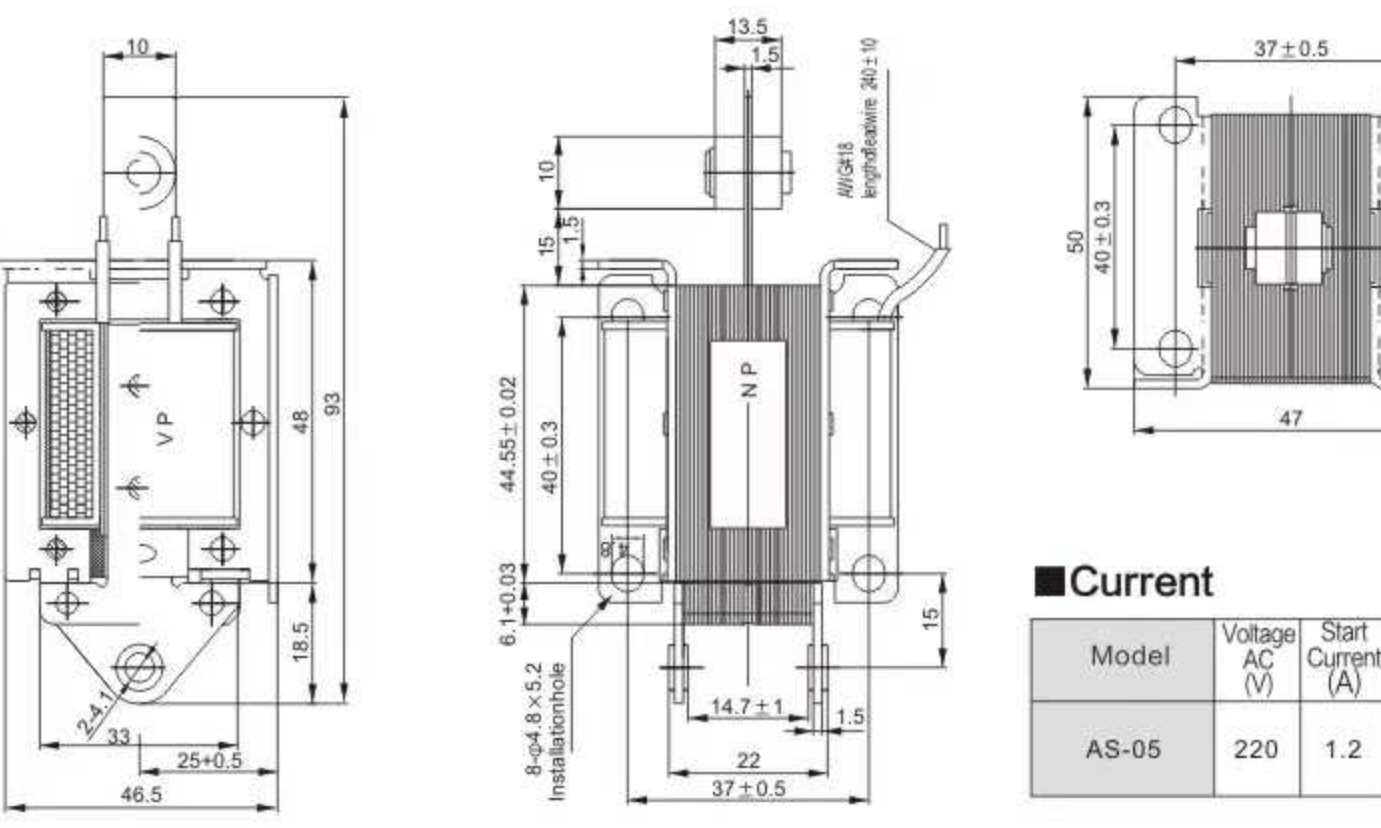
AS-04



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	
				Rated Travel	
AS-04	220	1.1	0.12	7.8N(0.8kgf)/10mm	

AS-05



Current

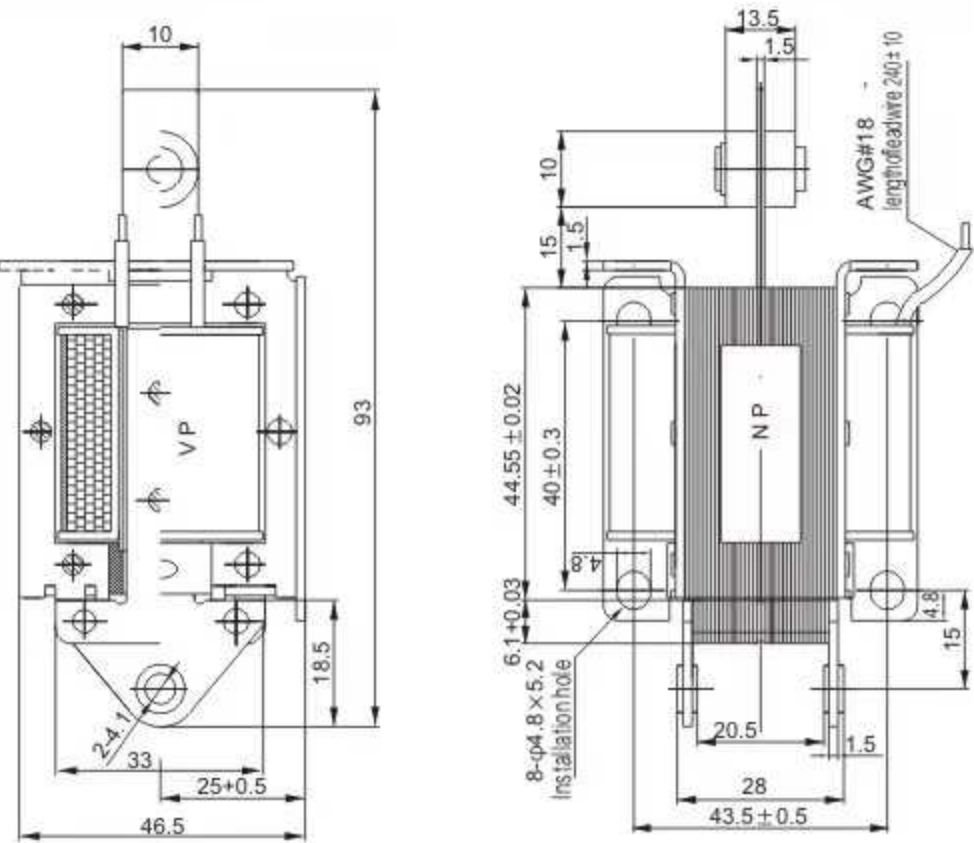
Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	
				Rated Travel	
AS-05	220	1.2	0.13	9.8N(1.0kgf)/15mm	

AS Traction Electromagnet

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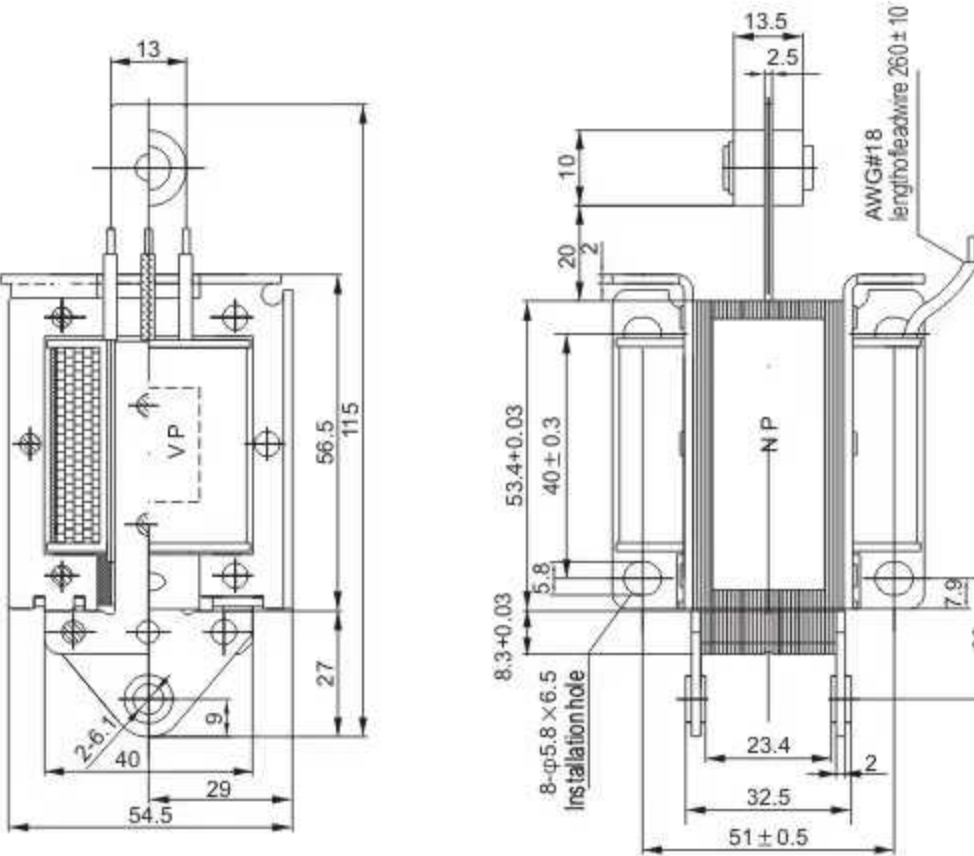
AS-10



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness
				Rated Travel
AS-10	220	2.8	0.28	14.7N(1.5kgf)/15mm

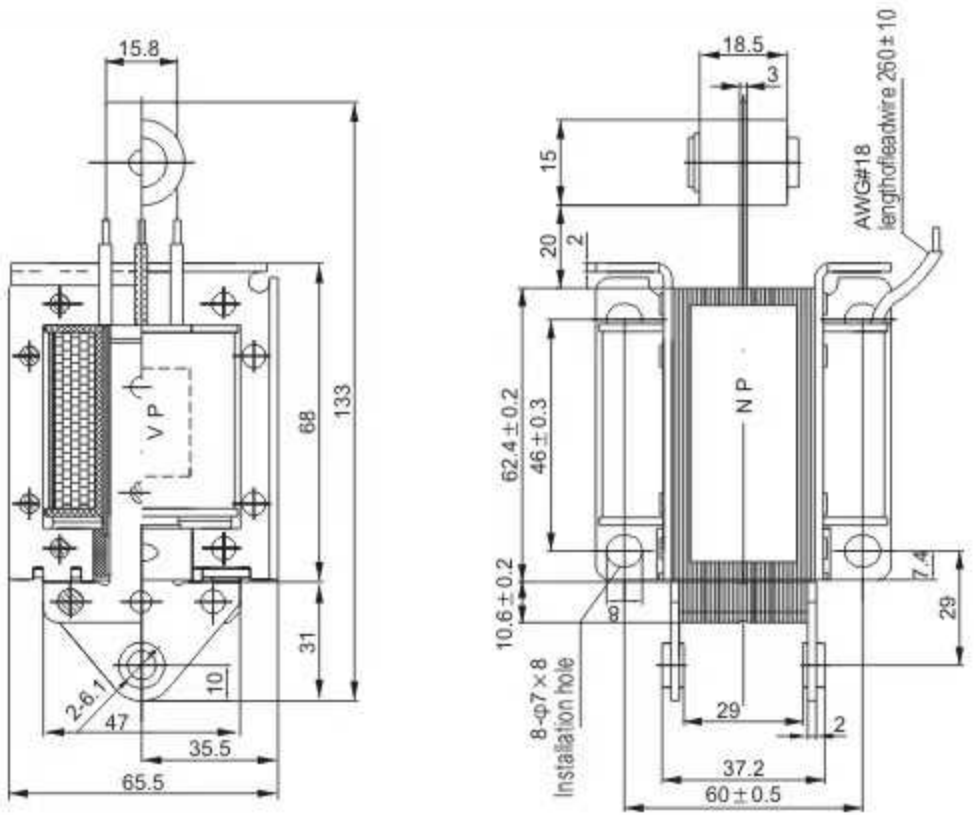
AS-20



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness
				Rated Travel
AS-20	220	5.0	0.4	29.4N(3.0kgf)/20mm

AS-30



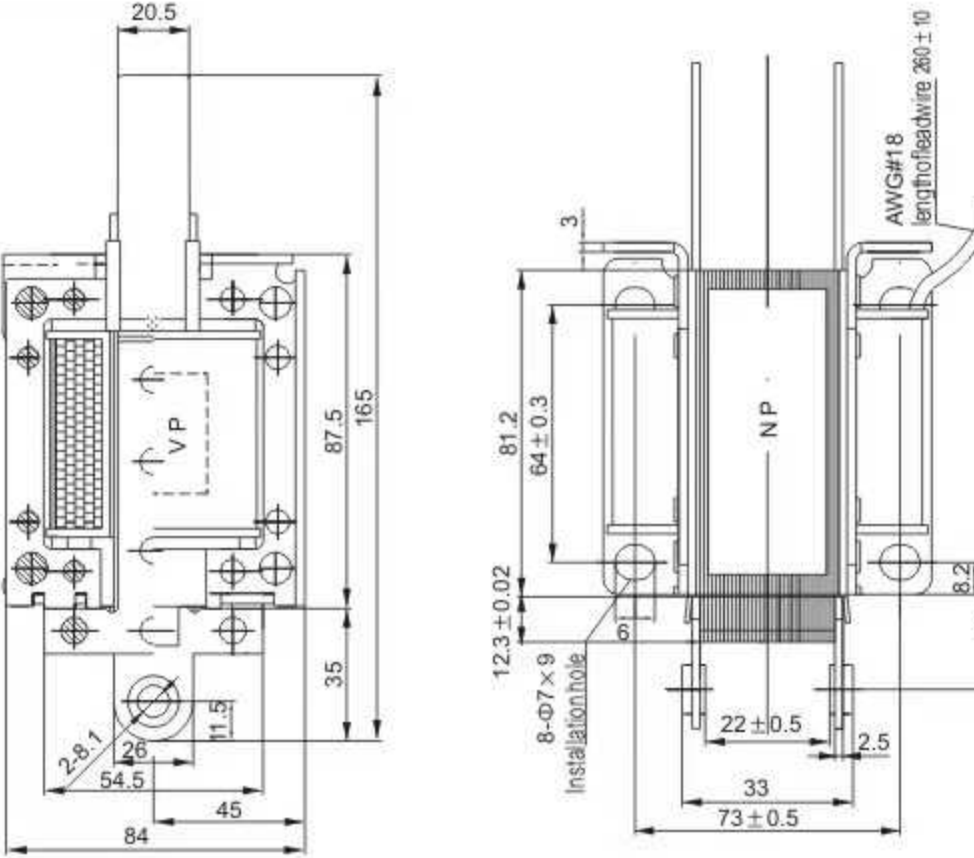
Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness
				Rated Travel
AS-30	220	6.0	0.5	39.2N(4.0kgf)/20mm

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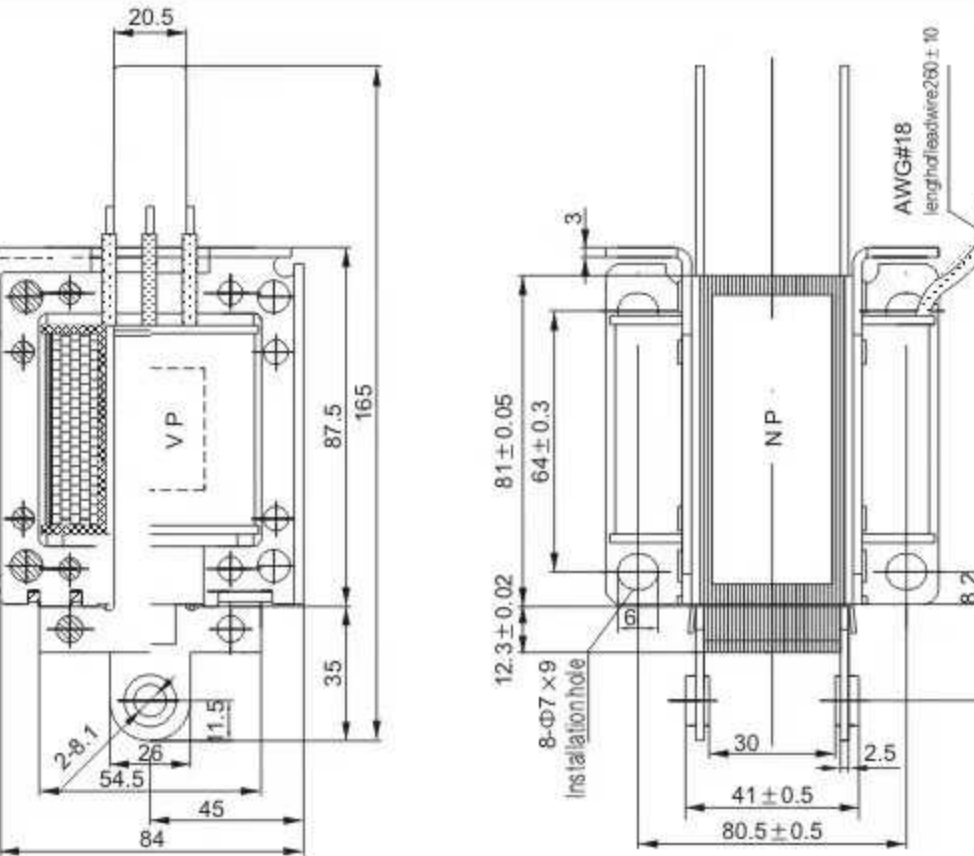
AS-40



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness
				Rated Travel
AS-40	220	14.0	1.0	49N(5.0kgf)/20mm

AS-50



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness
				Rated Travel
AS-50	220	15.0	1.03	68.6N(7.0kgf)/35mm

AC Tractive Electromagnet Model List

SA Series

Model	Action Forms		Rated travel (mm)	Rated suction N(kgf)	Rated voltage (V)	Rated cycle (Hz)	Insulation type	Insulation Resistance	Frequency voltage	Temperature rise	Rated operating frequency (Electricity rate of 60%)	Movable iron core weight (g)	Total weight (g)					
	PUSH-PULL	PULL																
SA-992			10	4.9	AC220 or AC110 AC380 AC24 AC36 Non-standard voltages can be customized	50/60Hz Common (2 lead wire)	Type A insulation		AC 1500V 1minute		1500 time/hour	65	205					
SA-991				(0.5)								60	195					
SA-1092				5.8								73	235					
SA-1091				(0.6)								68	225					
SA-1192				7.8								96	295					
SA-1191				(0.8)								91	285					
SA-2402			15	9.8			Type B insulation	DC 500V 50MΩ above	AC 2000V 1minute	85℃ below	1200 time/hour	100	360					
SA-2401				(1.0)								95	350					
SA-2502				14.7								125	430					
SA-2501				(1.5)								120	420					
SA-2602				19.6								150	490					
SA-2601				(2.0)								145	480					
SA-3502			20	29.4		50 or 60Hz (3 lead wire)					720 time/hour	295	1015					
SA-3501				(3.0)								285	1000					
SA-3602				39.2								350	1175					
SA-3601				(4.0)								340	1150					
SA-3702				49.0								405	1315					
SA-3701				(5.0)								395	1280					
SA-4502			30	58.8							360 time/hour	745	2650					
SA-4501				(6.0)								710	2580					
SA-4602				78.4								910	3250					
SA-4601				(8.0)								880	3180					
SA-52			40	98.0		50/60Hz Common (2 lead wire)	Type A insulation		AC 1500V 1minute		240 time/hour	1280	4400					
SA-56				(10.0)								1480	5160					
SA-52			40	117.6														
SA-56				(12.0)														
SAL-02			10	2.9						(1minute sustained pull-in) 65℃ below	360 time/hour	18	81					
SAL-03				(0.3)								22	115					
SAL-03			10	4.9														
SAL-03				(0.5)														

* Temperature on the rise in the ambient temperature at 20 °C measured when the applied voltage. Experimental conditions and determine the standards based on Q/YPH040-2004

SA Traction Electromagnet

● NP: Model label ● VP: Voltage label

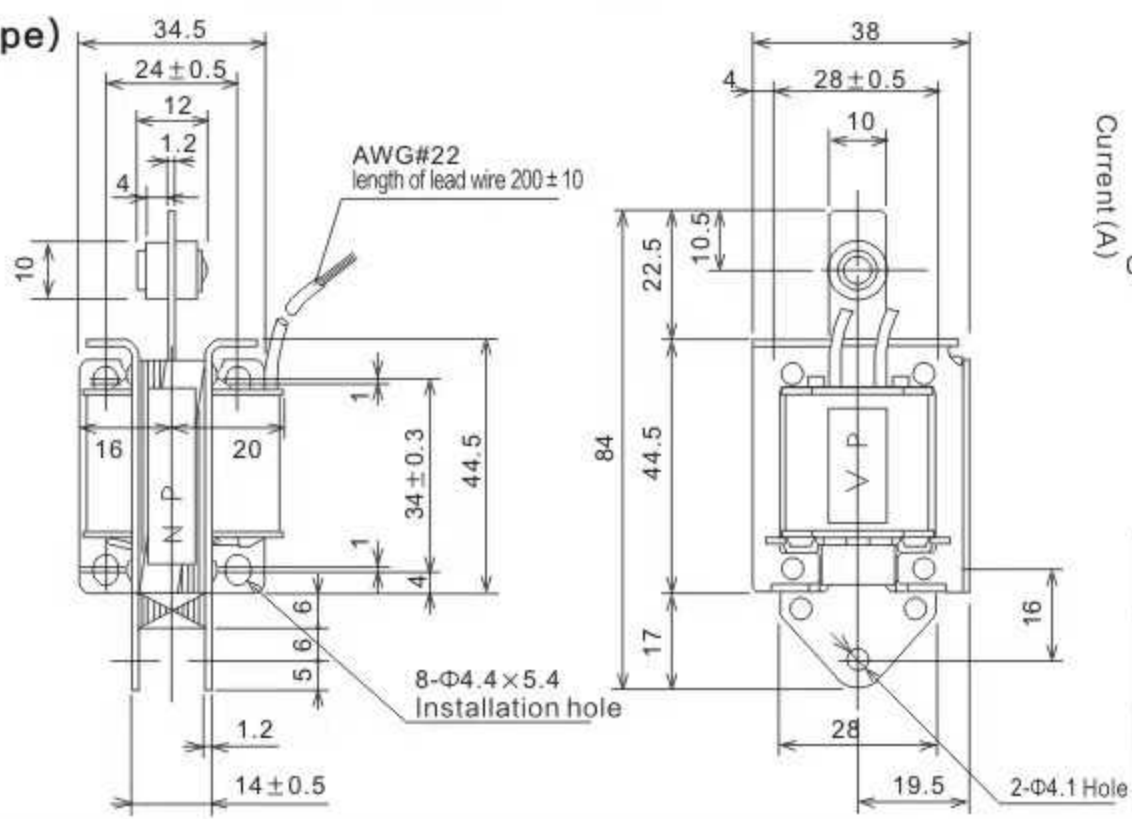
SA-992

(Push and pull type)

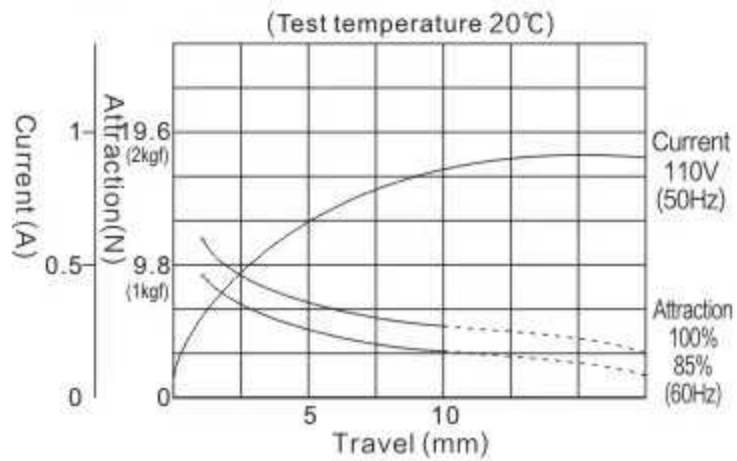
SA-991

(Pull type)

(SA-992 Pick-up state Size diagram)



Attractive features. Current features



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	
				Rated Travel	
SA-992	110	0.8	0.12	4.9N(0.5kgf)	/10mm
	220	0.45	0.07		
SA-991	110	0.8	0.12	4.9N(0.5kgf)	/10mm
	220	0.45	0.07		

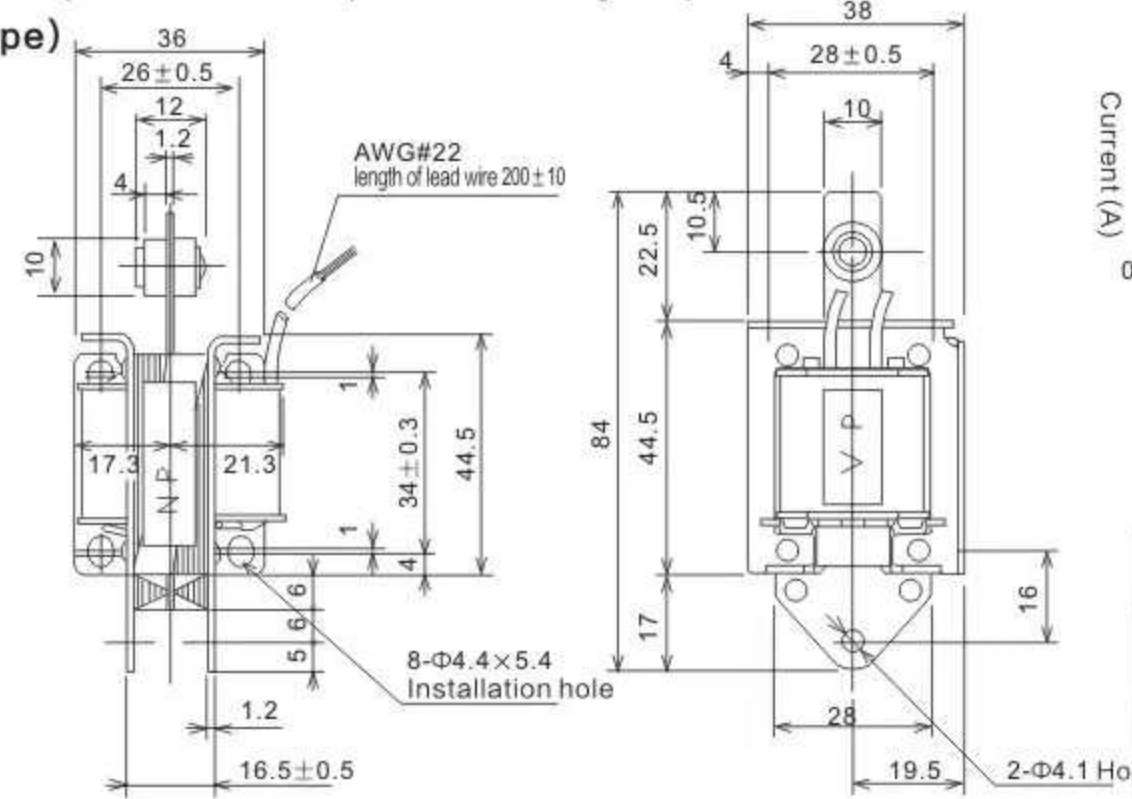
SA-1092

(Push and pull type)

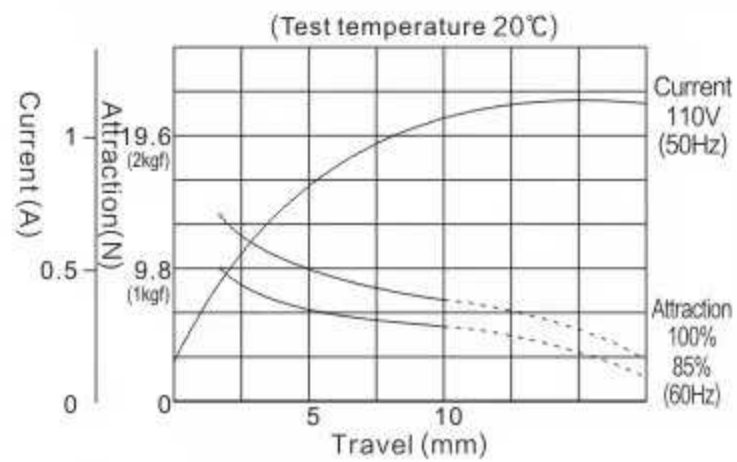
SA-1091

(Pull type)

(SA-1092 Pick-up state Size diagram)



Attractive features. Current features



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	
				Rated Travel	
SA-1092	110	1.1	0.16	5.8N(0.6kgf)	/10mm
	220	0.6	0.08		
SA-1091	110	1.1	0.16	5.8N(0.6kgf)	/10mm
	220	0.6	0.08		

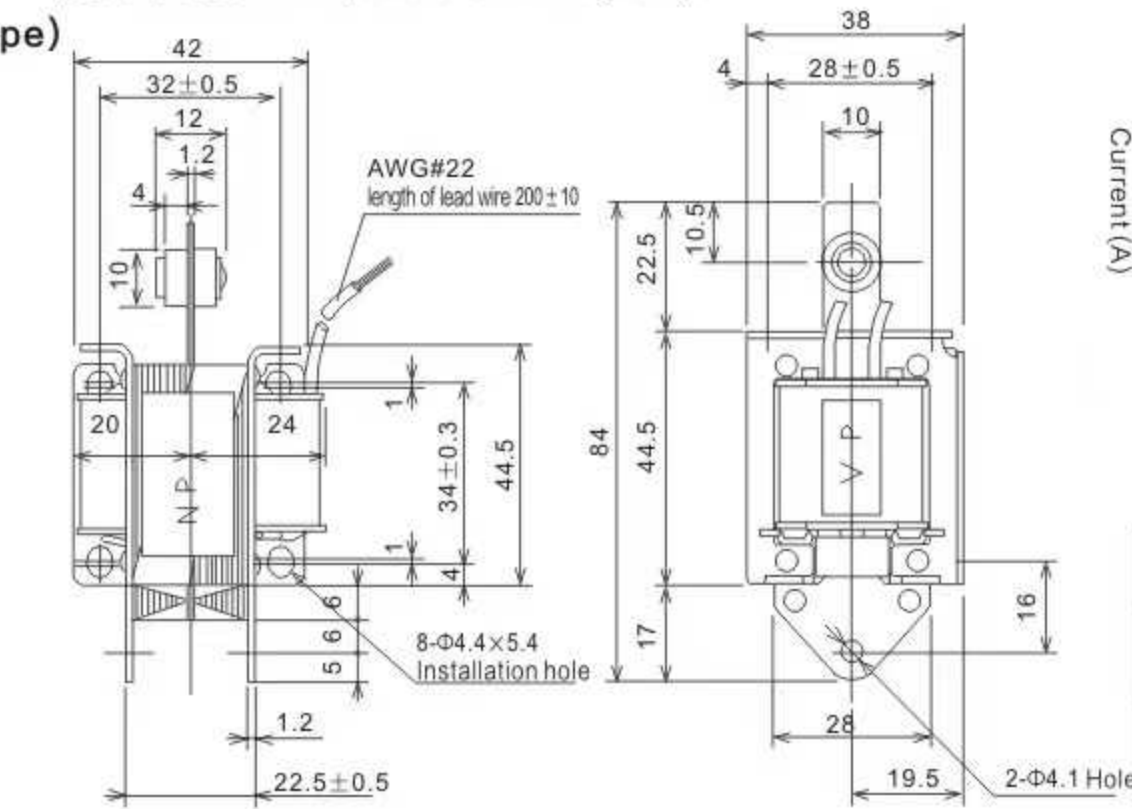
SA-1192

(Push and pull type)

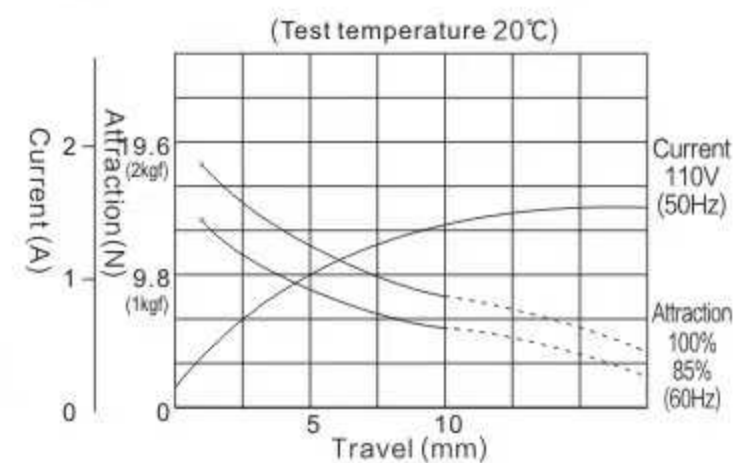
SA-1191

(Pull type)

(SA-1192 Pick-up state Size diagram)



Attractive features. Current features



Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	
				Rated Travel	
SA-1192	110	1.3	0.18	7.8N(0.8kgf)	/10mm
	220	0.7	0.1		
SA-1191	110	1.3	0.18	7.8N(0.8kgf)	/10mm
	220	0.7	0.1		

SA Traction Electromagnet (SA AC Solenoid)

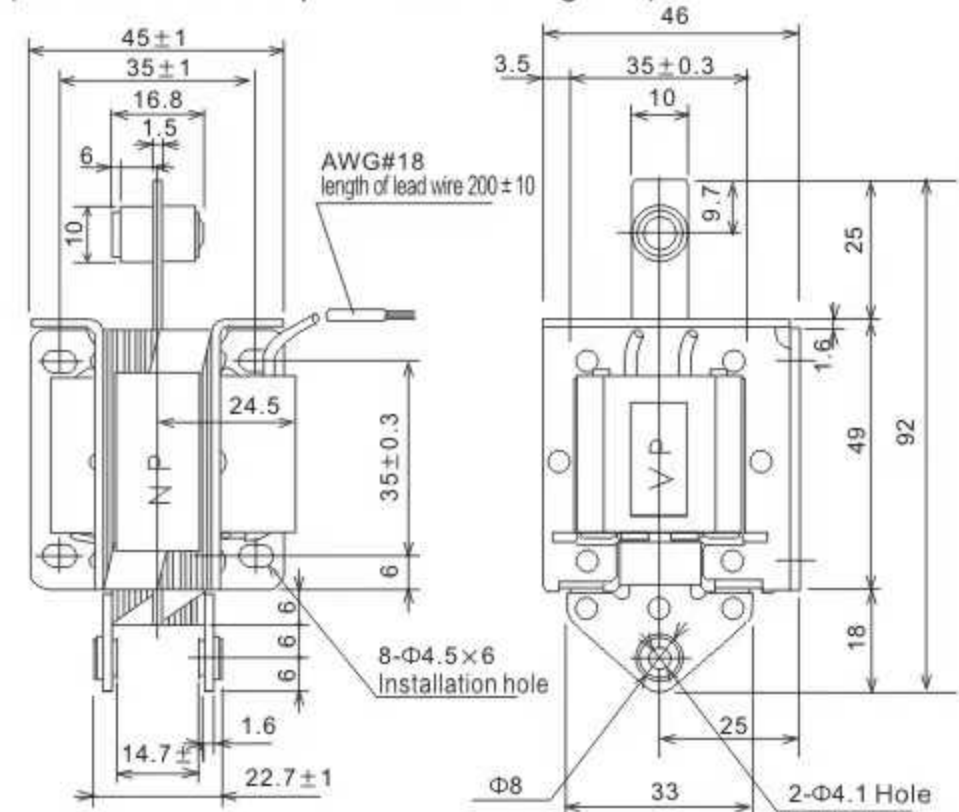
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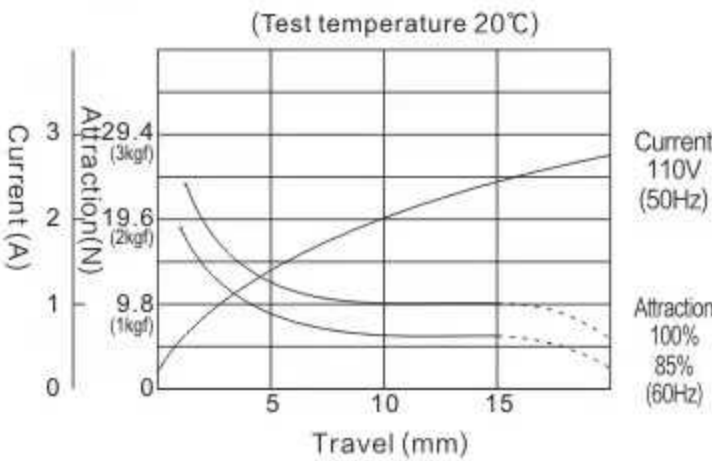
●Push-pull type(PUSH-PULL) ●Pull type(PULL)

SA-2402
(Push and pull type)
SA-2401
(Pull type)

(SA-2402 Pick-up state Size diagram)



■Attractive features. Current features

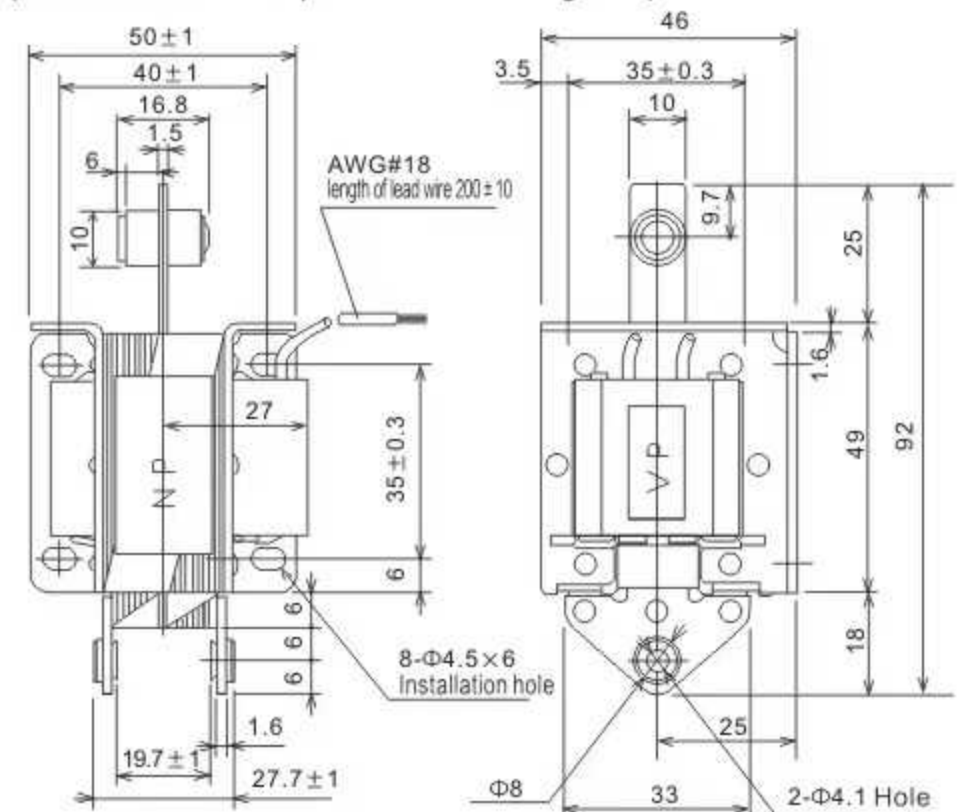


■Current

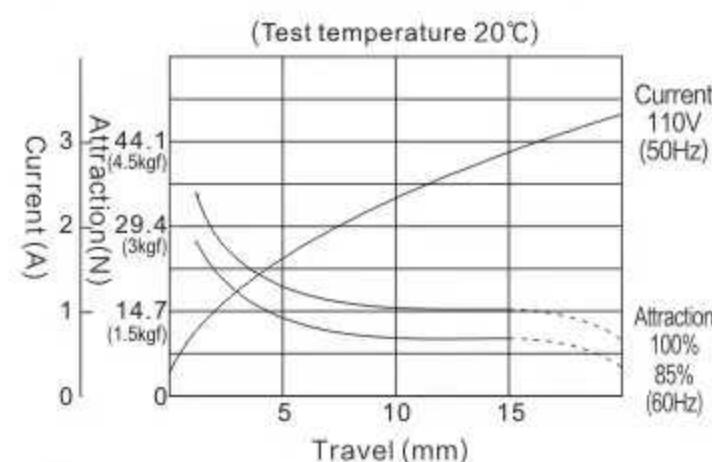
Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated suction	Rated Travel
SA-2402	110	2	0.28	9.8N(1.0kgf)	/15mm
	220	1.2	0.13		
SA-2401	110	2	0.28	9.8N(1.0kgf)	/15mm
	220	1.2	0.13		

SA-2502
(Push and pull type)
SA-2501
(Pull type)

(SA-2502 Pick-up state Size diagram)



■Attractive features. Current features

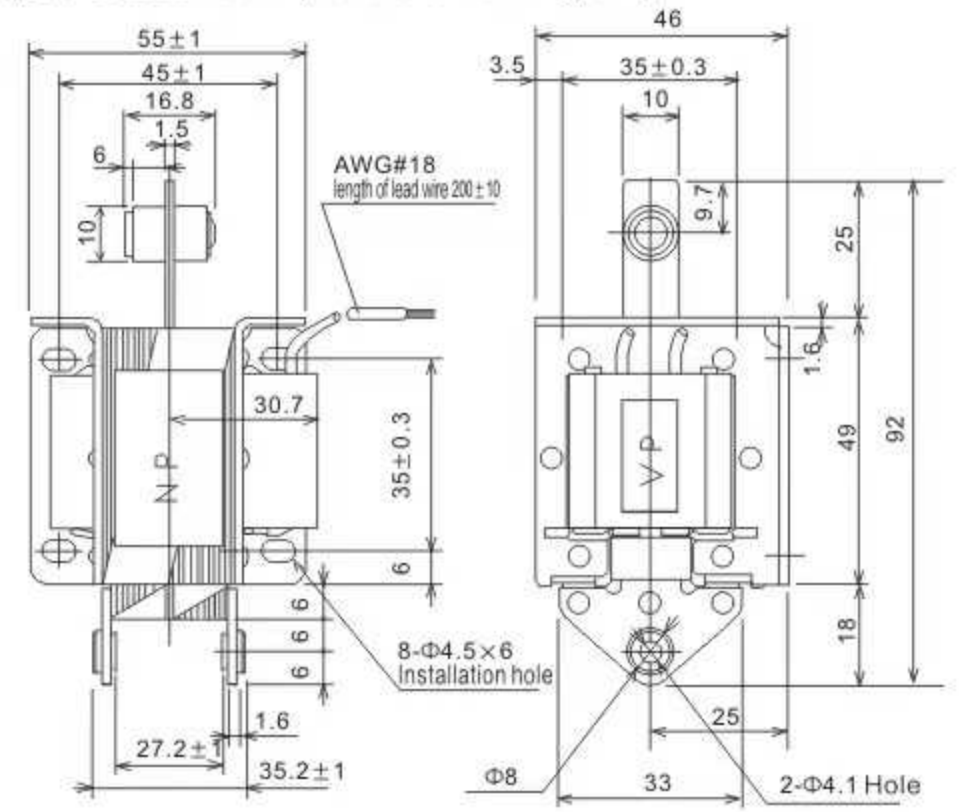


■Current

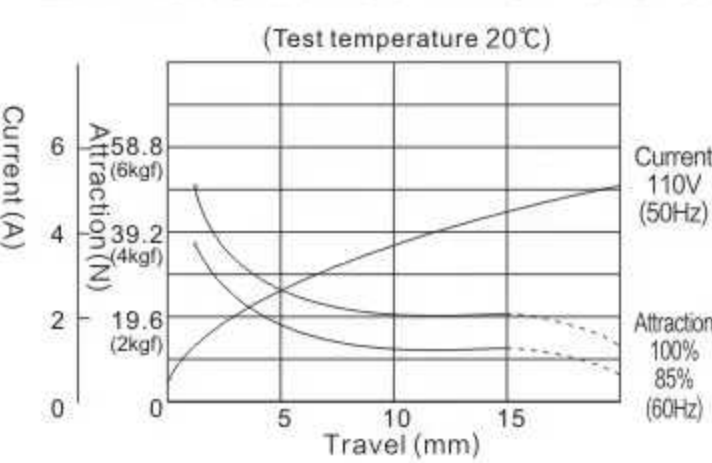
Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	Rated Travel
SA-2502	110	3.1	0.35	14.7N(1.5kgf)	/15mm
	220	1.4	0.17		
SA-2501	110	3.1	0.35	14.7N(1.5kgf)	/15mm
	220	1.4	0.17		

SA-2602
(Push and pull type)
SA-2601
(Pull type)

(SA-2602 Pick-up state Size diagram)



■Attractive features. Current features



■Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	Rated Travel
SA-2602	110	4.0	0.4	19.6N(2.0kgf)	/15mm
	220	2.0	0.2		
SA-2601	110	4.0	0.4	19.6N(2.0kgf)	/15mm
	220	2.0	0.2		

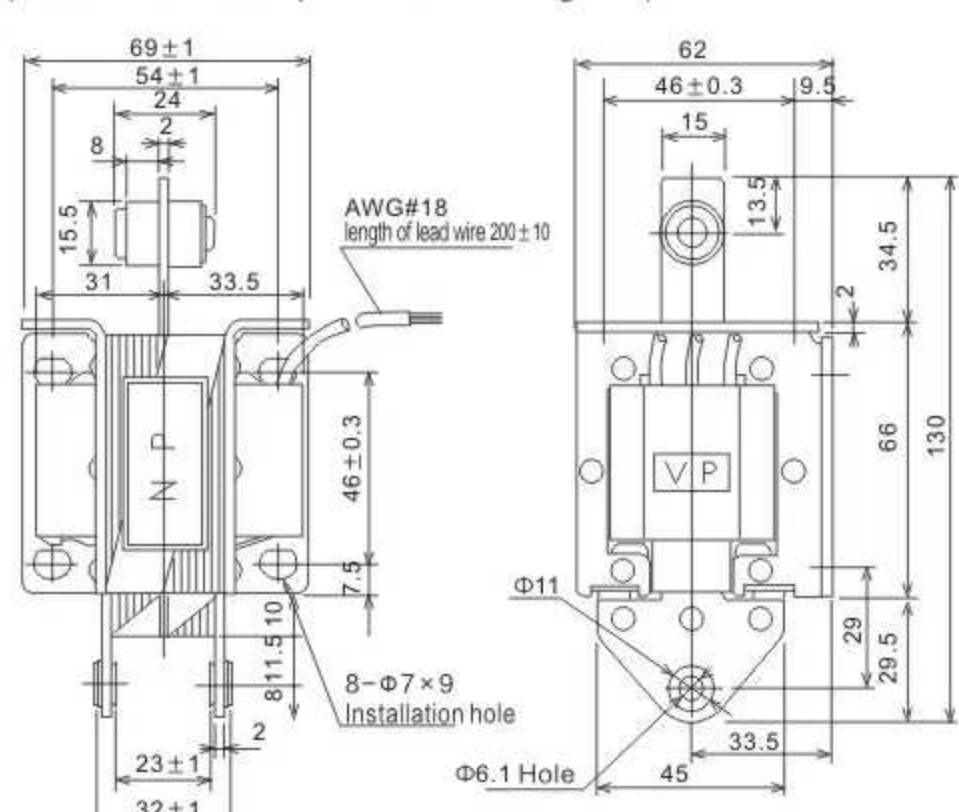
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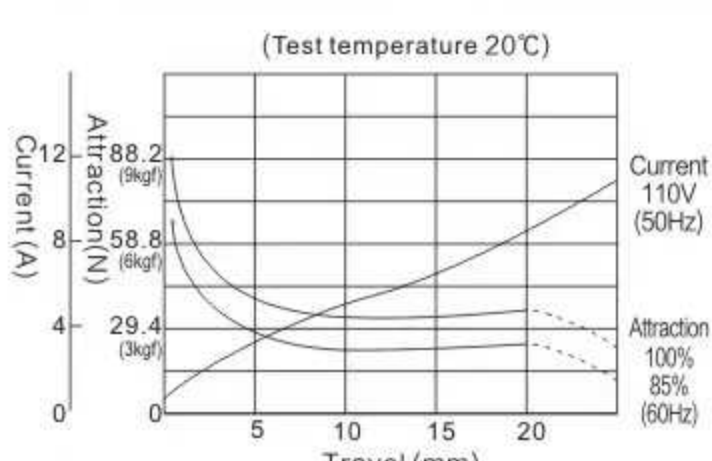
●Push-pull type(PUSH-PULL) ●Pull type(PULL)

SA-3502
(Push and pull type)
SA-3501
(Pull type)

(SA-3502 Pick-up state Size diagram)



■Attractive features. Current features

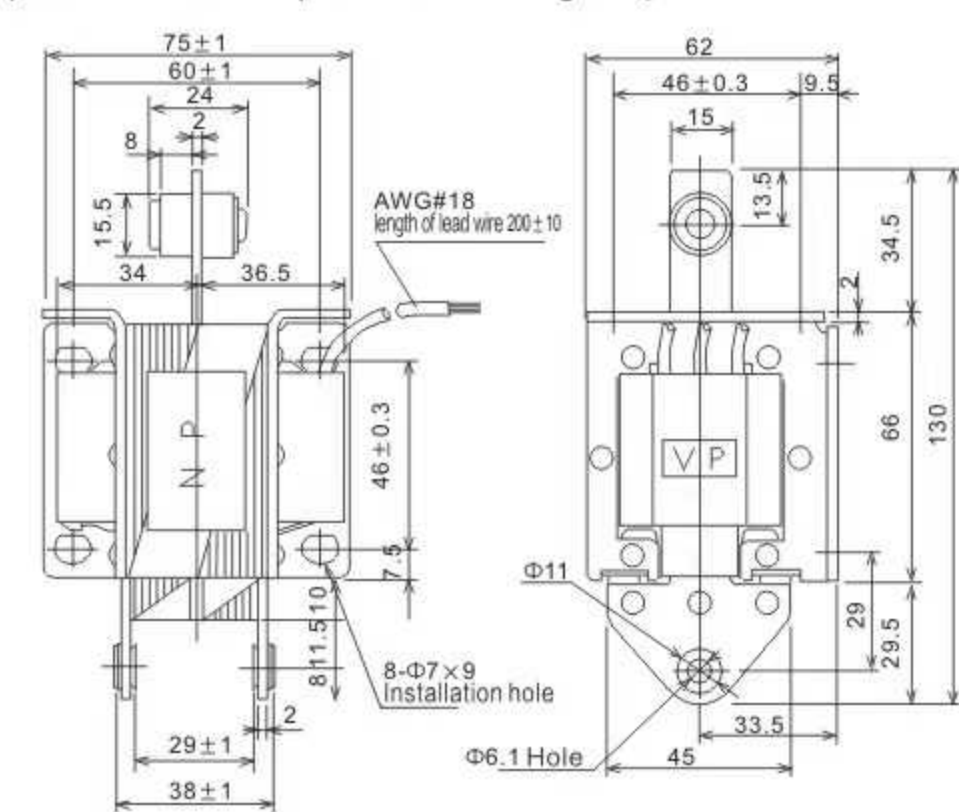


■Current

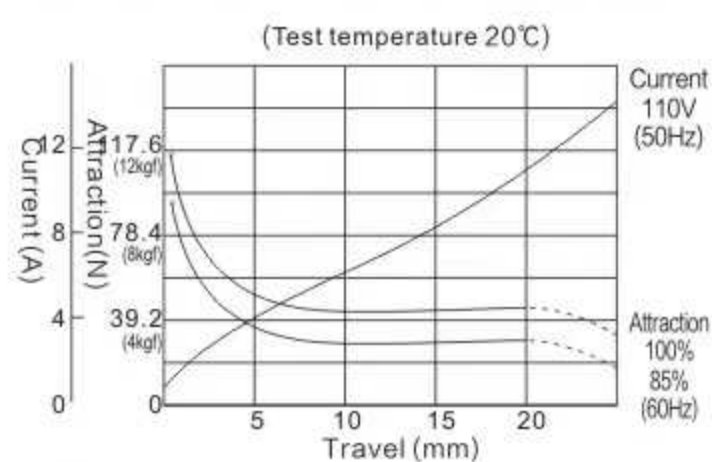
Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	Rated Travel
SA-3502	110	7.2	0.5	29.4N(3.0kgf)	/20mm
	220	3.6	0.3		
SA-3501	110	7.2	0.5	29.4N(3.0kgf)	/20mm
	220	3.6	0.3		

SA-3602
(Push and pull type)
SA-3601
(Pull type)

(SA-3602 Pick-up state Size diagram)



■Attractive features. Current features

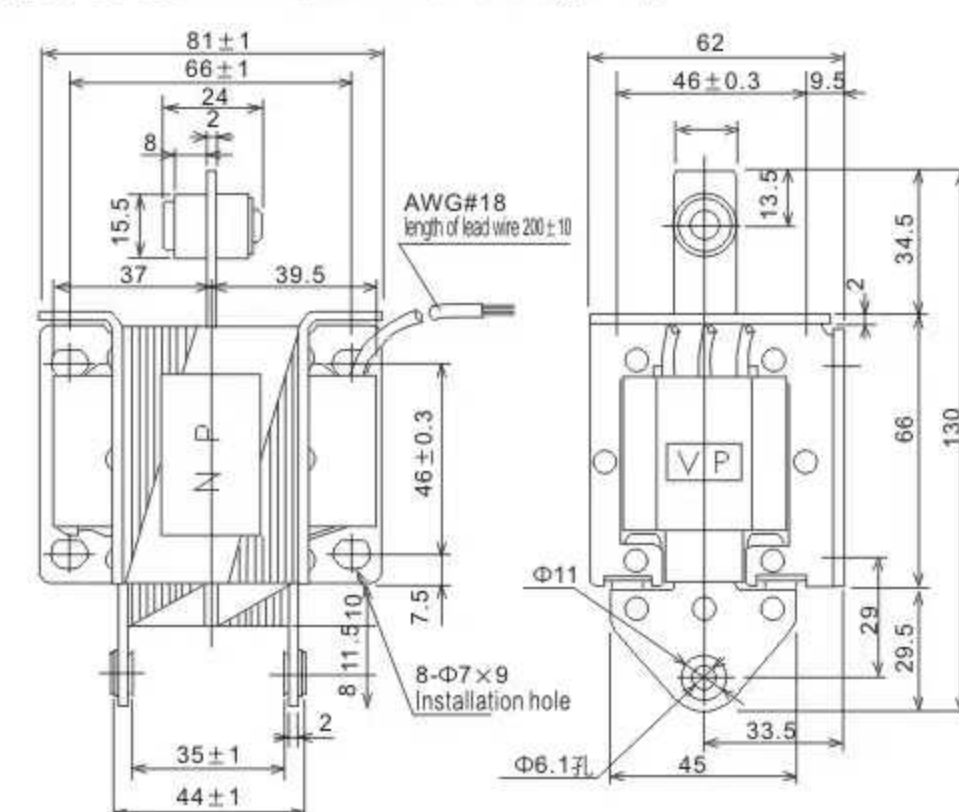


■Current

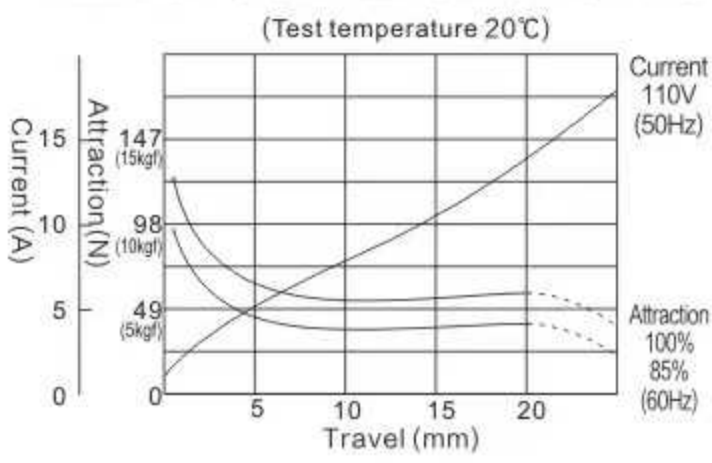
Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	Rated Travel
SA-3602	110	8.7	0.72	39.2N(4.0kgf)	/20mm
	220	4.0	0.36		
SA-3601	110	8.7	0.72	39.2N(4.0kgf)	/20mm
	220	4.0	0.36		

SA-3702
(Push and pull type)
SA-3701
(Pull type)

(SA-3702 Pick-up state Size diagram)



■Attractive features. Current features



■Current

Model	Voltage AC (V)	Start Current (A)	Holding current (A)	Rated attractiveness	Rated Travel
SA-3702	110	10.9	0.8	49.0N(5.0kgf)	/20mm
	220	5	0.4		
SA-3701	110	10.9	0.8	49.0N(5.0kgf)	/20mm
	220	5	0.4		

