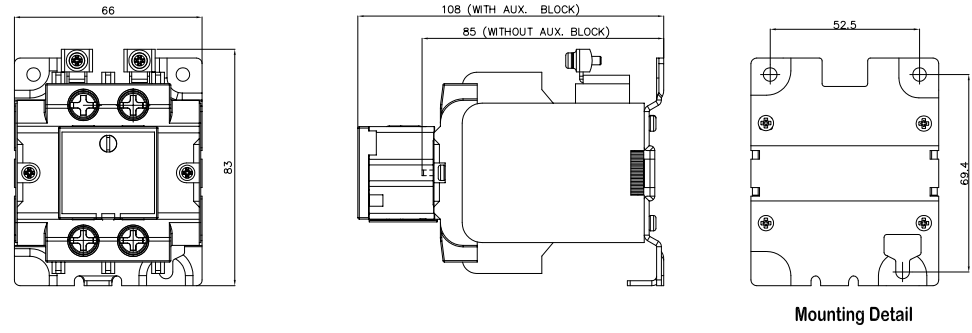


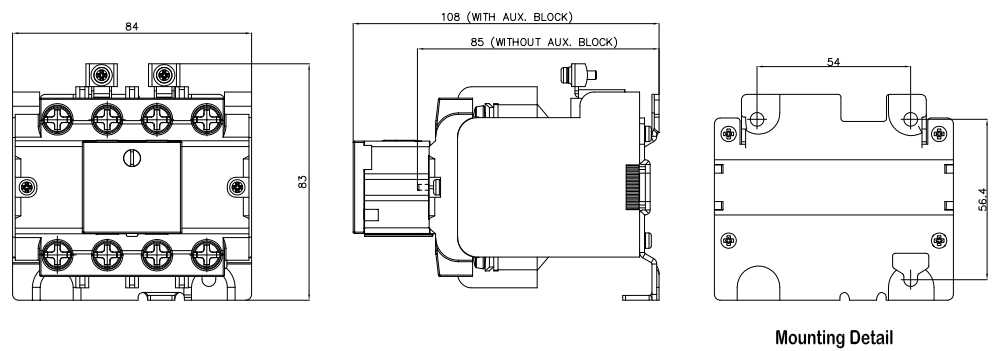


### Dimensional Details:

#### Contactor 12A~40A 2P



#### Contactor 12A~40A 4P



### Other Products



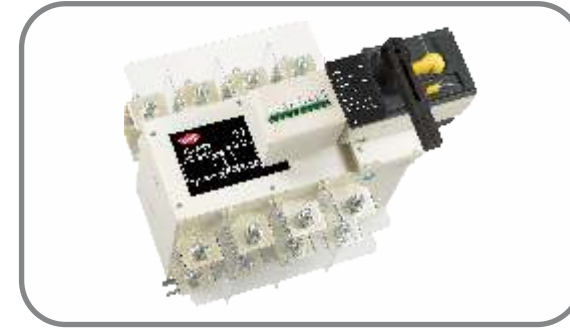
ACB



Controlgear



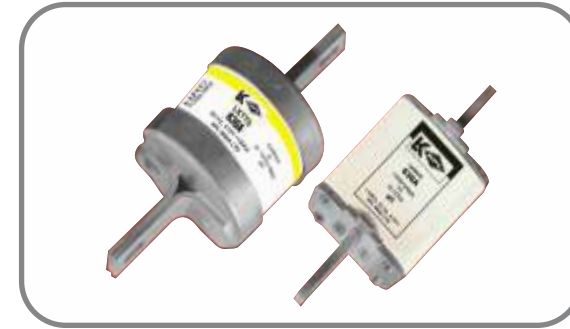
On Load Changeover Switch



Automatic Transfer Switch



Switch Disconnect Fuse



HRC Fuse Link



## SOLIDE Range of AC Contactor

For Agriculture & Industrial Applications



### Salient Features

- Conforms to IEC: 60947-4-1
- Reliable operation with compact and Robust construction
- Bounce free weld resistant contacts
- Very high mechanical and electrical endurance
- Frequency of operation: Maximum 600 operations per hour
- Standard Coil Voltages (AC): 24V, 42V, 48V, 110V, 220/240V, 380/415V
- Auxiliary contacts: 1NO+1NC or 2NO / 2NC
- Interchangeable with other ratings while upgrading electrical installations
- User friendly Terminations.



HPL/SOLIDE/04-23



### HPL Electric & Power Ltd

Corp. Office: Windsor Business Park, B-1D,  
Sector-10, Noida, U.P. - 201301, INDIA.  
Tel.: +91-120-4656300, Fax: +91-120-4656333  
Registered Office: 1/20, Asaf Ali Road, New Delhi - 110 002, INDIA.  
E-mail: hpl@hplindia.com

Customer Care No. :  
18004190198

www.hplindia.com



www.hplindia.com



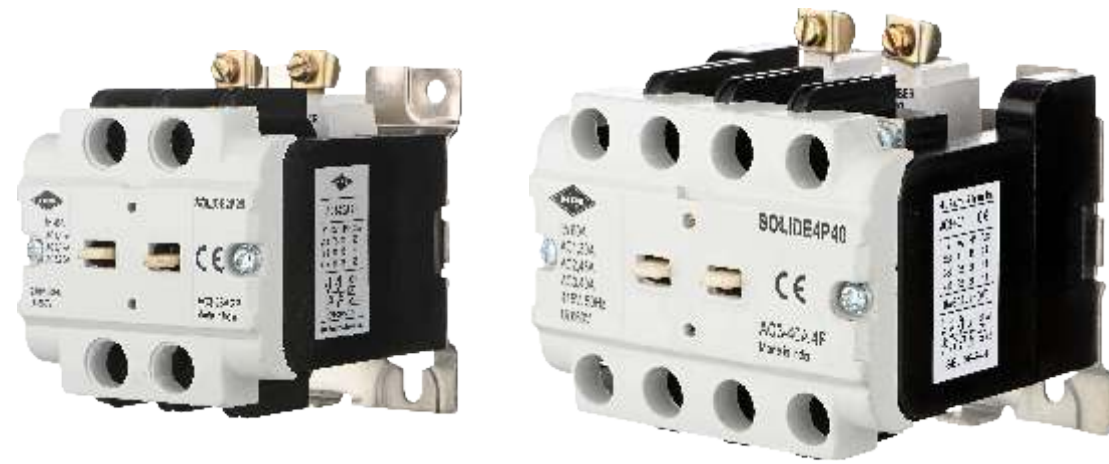


## SOLIDE Range of AC Contactor

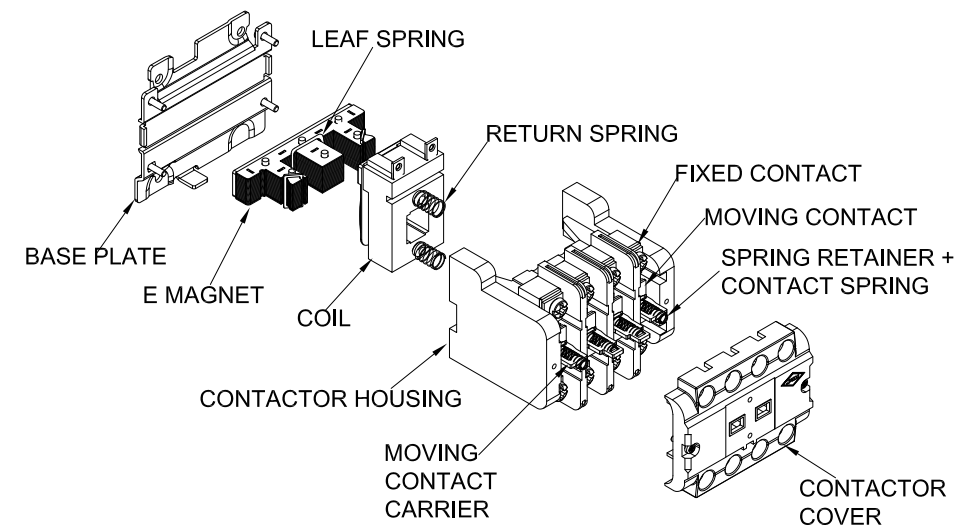
HPL AC Contactors are designed to international standards, with many distinctive features. Contactors are provided with four normally open contacts. In addition there is a provision for taking on an auxiliary contact block with 1NO+1NC or 2NO or 2NC configuration.

Injection phenolic moulding compound with electric and flame-resistance properties reduce tracking and prolong operational life. Specially designed magnet system with rubber damper is used to ensure consistent, quiet operation & reduce bouncing. Exposed metal parts are treated for corrosion resistance and magnet coils run cooler, last longer even in high ambient temperatures.

Contactors rated for 12A, 16A, 20A, 25A, 32A & 40A have common physical and mounting dimensions to eliminate space problems while electrically up-grading installations.



### EXPLODED VIEW OF CONTACTOR



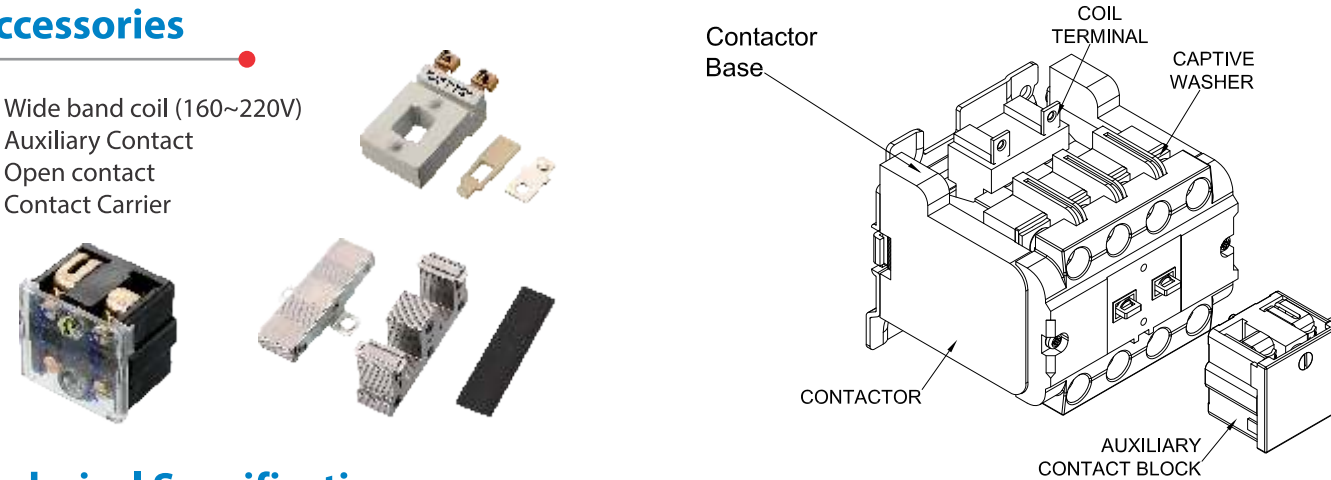
### Contact design

Contacts are designed with silver-cadmium & it provides weld resistance characteristics & low bounce. Moving contacts are visible from top. Visual indication for ON & OFF from the top is visible and provision for manual operation is provided.



## Accessories

- Wide band coil (160~220V)
- Auxiliary Contact
- Open contact
- Contact Carrier



## Technical Specification

Power Contactor - 2P							
Type		SOL-12A/2	SOL-16A/2	SOL-20A/2	SOL-25A/2	SOL-32A/2	SOL-40A/2
As per standards		IEC/IS 60947-4-1					
Rating (AC3) at 240V AC	A	12	16	20	25	32	40
Thermal Current (Ith)	A	25	25	32	40	50	60
No. of Pole	Nos	2					
Operational Voltage	V	240					
Insulation voltage	Ui V	660					
Electrical endurance (Ac3)	Million Operations	1					
Mechanical endurance	Million Operations	5					
Maximum frequency of operation	ops/hour	600					
Operating time of contactor (average)	ms	25					
Contact bounce time (average)	ms	5					
Terminal Capacity Main contacts	mm <sup>2</sup>	1X16 or 2X10					
Size (W x H x D)	mm	66 x 83 x 85					
Weight	Kg	0.53					
Operating Altitude	m	up to 2000m					
<b>Auxiliary Characteristic</b>							
Thermal rating		6					
AC 15 rating at 240V 50Hz		4					
Contact options		1NO + 1NC, 2NO, 2 NC					
Terminal capacity -Auxiliary contacts	mm <sup>2</sup>	2.5					
<b>Control Characteristic</b>							
Standard coil voltages at 50 Hz	V	24, 42, 48, 110, 220/240, 160~220 (wide)					
Coil operating voltage range		-30 to + 10% of rated voltage					
Insulation class of coil	Class	B					
Coil consumption (max)	Inrush VA	66					
	Sealed VA	13					



## Technical Specification

Power Contactor - 4P																			
Type		SOL-12A/4	SOL-16A/4	SOL-20A/4	SOL-25A/4	SOL-32A/4	SOL-40A/4												
As per standards		IEC/IS 60947-4-1																	
Rating (AC3) at 415V AC	A	12	16	20	25	32	40												
Thermal Current (Ith)	A	25	25	32	40	50	60												
No. of Pole		4																	
Operational Voltage	Ue (V)	415																	
Insulation voltage	Ui(V)	660																	
Motor Starting duty	V (50 Hz)	KW	HP	FLC - le A	KW	HP	FLC - le A	KW	HP	FLC - le A	KW	HP	FLC - le A	KW	HP	FLC - le A			
AC 1 Resistive or Slightly inductive loads	220/240	2.25	12	7.5	20	7.5	20	12	40	15	40	17	50						
	380/415	7.5	15	15	20	15	20	23	40	25	40	37	50						
AC 2 Slipring motors Starting & plugging	220/240	2.25	3	12	4	5.5	20	4	5.5	20	7.5	10	32	10	12.5	36	11	15	40
	380/415	5.5	7.5	11	7.5	10	20	7.5	10	20	11	15	32	15	20	36	22	30	40
AC 3 Squirrel cage Motors Starting & FLC Breaking	220/240	2.25	3	12	4	5.5	16	5.5	7.5	20	7.5	10	26	10	15	30	11	15	40
	380/415	5.5	7.5	11	7.5	10	16	7.5	10	20	11	15	25	15	20	30	22	30	40
Electrical endurance (Ac3)	Million Operations	1																	
Mechanical endurance	Million Operations	5																	
Maximum frequency of operation	ops/hour	600																	
Operating time of contactor (average) milli seconds	ms	20																	
Contact bounce time (average)	ms	5																	
Terminal Capacity Main contacts	mm <sup>2</sup>	1X16 or 2X10																	
Size (W x H x D)	mm	84 x 83 x 85																	
Weight	Kg	0.66																	
Operating Altitude	m	up to 2000m																	
Auxiliary contacts																			
Thermal rating	A	6																	
AC 15 rating at 415V 50Hz	A	3																	
Contact options		1 NO + 1 NC, 2NO or 2 NC																	
Terminal capacity -Auxiliary contacts	mm <sup>2</sup>	2.5																	
<b>Control Characteristic</b>																			
Standard coil voltages 50 Hz	V	24, 42, 48, 110, 220-240, 380, 415, 440																	
Coil operating voltage range		-30 to + 10% of rated voltage																	
Insulation class of coil	Class	E																	
Coil consumption (max)	Inrush VA	80																	
	Sealed VA	13.2																	