



Ordering Code

1,2	3,4	4	5		6			7,8,	,9,10,1	11,12
		_			_				CODE	•
ТҮРЕ	ACB, RATI		No.of Po	OLES	Manual / Electrical FIXED/DRAW OUT	Γ	MOTOR	СС	SHT	VOLTAGE RATING
	630A	06	3-POLE	3	MANUAL FIXED	Α	M0	D0	D0	NIL
	800A	08	4-POLE	4	ELECTRICAL FIXED	В	M1	D1	D1	AC/DC 100-130V
BN/	1000A	10			MANUAL DRAW OUT	U	M2	D2	D2	AC/DC 200-250V
AN	1250A	12			ELECTRICAL DRAW OUT	D	M3	D3	D3	DC 125V
	1600A	16					M4	D4	D4	DC 24-30V
	2000A	20					M5	D5	D5	DC 48-60V
	2500A	25					M6	D6	D6	AC 380-415V
BS/	3200A	32					M7	D7	D7	AC 48 V
AS	4000A	40					M8			AC 440-480V
	5000A	50								
	6300A	63								

		13,14,15			
		TRIP RELAY			
ТҮРЕ		Communication & Protection		CONTROL VOLTAGE FREQUENCY	&
		WITHOUT TRIP RELAY (CODE:- 000)			
NORMAL	N	Without Communication + L/S/I/G	G	SELF POWERED,50HZ	0
				SELF POWERED,60HZ	5
AMMETER	Α	Without Communication	G	SELF POWERED,50HZ	0
		Without Communication + Earth Leakage	Z	AC/DC 100-250V, 50 HZ	1
		Without Communication + Earth Leakage	Е	DC 24-60V, 50HZ	2
		Communication	С	SELF POWERED,60HZ	5
		Communication + Earth Leakage	K	AC/DC 100-250V, 60 HZ	6
		Communication + Earth Leakage	Х	DC 24-60V, 60HZ	7
POWER METER	P	Communication	С	AC/DC 100-250V, 50 HZ	1
		Communication + Earth Leakage	К	DC 24-60V, 50HZ	2
		Communication + Earth Leakage	Х	AC/DC 100-250V, 60 HZ	6
		Communication + Pre-Trip Alarm	Α	DC 24-60V, 60HZ	7

"NORMAL" type Release

- * L/S/I/G configuration supplied as standard
- With LED Indicators
- Without output contacts

* Ground fault system is by vector sum

"AMMETER" type Release

- * L/S/I/G configuration supplied as standard
- * Ground fault system is by vector sum(G,C) * Earth Leakage system
- -Z,K: External CT- HPL ZCT to be used for fault current 0.5- 30A, 1600AF
- -E,X: External CT- Customer has to use on his own for fault current > 30A
- * Communication and output contacts DO NOT work under self power condition

"POWER METER" type Release

- * L/S/I/G configuration supplied as standard
- * Ground fault system is by vector sum(G,C)
- * Earth Leakage system -K: External CT- HPL ZCT to be used for fault current 0.5- 30A, 1600AF
- -X: External CT- Customer has to use on his own for fault current > 30A

Applicable for generator protection purpose



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Corporate Information

Founded in 1956, the **HPL** Group is a major player in Indian Electrical Industry with commitment to state of art technology, manufacturing world class products. HPL Group has been serving Indian Industry since last 54 years with time tested, reliable and well-proven products in the field of Switchgears, Protection Devices, Electronic Energy Meters, Energy Management Systems, CFL Lamps, Luminaries and Wires & Cables.

HPL Group has 69 marketing offices spread throughout the country with 1200 authorised dealers and over 15000 retailers. The Group has manpower of over 5000 people. HPL Group possess nine ultra modern state-of-art manufacturing plants, located in Gurgaon (Haryana), Noida (U.P), Kundli (Haryana), Sonepat (Haryana) and Jabli (Himachal Pradesh), having 80,000 sq. mtr. covered area, to manufacture the products confirming to latest Indian and International standards. HPL has an R&D center with over 100 Design Engineers, who are consistently working to upgrade the product technology.

Following the philosophy of 3D's i.e. Duty to work, Discipline to quality & Devotion to customers, HPL group has created a niche for itself in the electrical industry. **HPL** today is popularly known as "The Technology Brand of India".

HPL range of ACBs are in technical collaboration with LS Co. Ltd, Korea, a US\$ 25 billion group. LS is a leader in LV, MV & HV Switchgear, Circuit Breakers, Automation, Large scale systems, GIS and Green technologies solutions.





Air Circuit Breaker

intelliPROTECT

intelligent protection

Range of HPL Air Circuit Breaker meets your demands for high breaking capacity and optimized panel size. Wide range of accessories and connection methods offerings meet the various installation needs & simplified switch board design.

It provides total solutions with an advanced trip relay for measurement, diagnosis, analysis and communication as well as protective functions for absolute protective coordination and electric power monitoring system.

HPL range of ACBs are in technical collaboration with LSTE Co. Ltd, Korea, a US\$ 25 billion group. Life is a leader in LV, MV & HV Switchgear, Circuit Breakers, Automation, Large scale systems, GIS and Green technologies solutions.







Overview

Product Introduction

Background Information on Development of intelliprotect Series of ACB

Intelliprotect Series of ACB is developed to meet high breaking capacity required for elevated electricity demand, to satisfy compact panel size & modularity and to increase users convenience by providing various accessories, safety features & connecting methods.

More over, providing total solutions for every application / installation by developing a Relay to achieve absolute protection coordination & to correspond with IT system.

Product Offer:

IPAS Type

ics = 100%icu at 500Vac

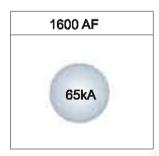
85kA	120kA
	85kA



IPAN Type

ics = 100%icu at 500Vac

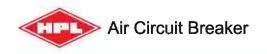




Characteristics

- Modularity & Compactness
- Various Accessories Possession.
- Comply with IEC / IS
- Acquire multi-rating (690Vac, 500Vac) standard for all models
- Impulse Withstand Voltage (Uimp): 12kV
- Ics = 100%lcu
- Icw Ratings:
 - IPAS type has Icw rating of 65kA for 1sec to as high as 100kA for 1sec.
 - Also for 3sec from 50kA to 85kA
 - IPAN type can offer 50kA for 1sec
 - Enhanced Life
 - Multiple terminal connection choice

- N phase current conducting capacity: 100%
- Suitable for installations with IT system
- Possess various customer oriented digital trips (N,A,P, Type)
- The wide spectrum of protection functions with a flexibility of thresholds & trip times make it suitable to meet any type of installation need.
- Advanced measurement function, communication function & Additional protection function over and above traditional made it a true choice for any application.





Air Circuit Breaker



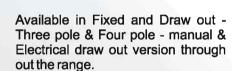
External Configuration

Fixed type ACB



Terms

- 1. Trip relay
- 2. Counter
- 3. OFF button
- 4. ON button
- 5. Series name
- 6. Charge handle
- 7. Rated name plate
- 8. Charge / Discharge indicator
- 9. ON/OFF indicator
- 10. Company Logo
- 11. Arc cover
- 12. Terminal cover
- 13. Cradle
- 14. Handle storage space
- 15. Position indicator
- 16. Draw-out handle
- 17. Pad lock button
- 18. Arc chute
- 19. Control cover



Offers all the functions & characteristics of a power circuit breaker in a very compact volume.

Also standardization & optimisation of switchboard is simplified - result of innovative integration of components and performance. The uniform height & depth made it a perfect choice of switchboard Manufactures.



Draw-out ACB

Overview

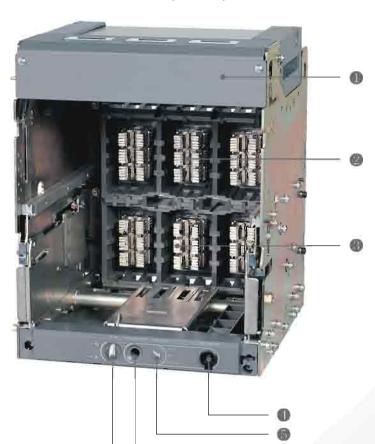
ACBs are built with very strong robust metal structure - can with stand very high level of thermal / dynamic stresses extending there by reliability and dependability along with safety for each installations.

The fixed part of drawout ACB have shutters to extend safety when ACB is withdrawn.

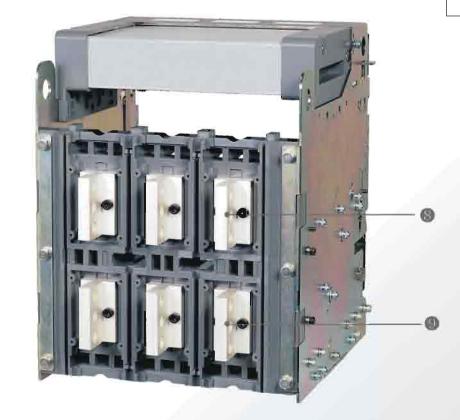
Terms

- 1. Terminal cover of control circuit
- 2. Cradle finger (Line side)
- 3. Cradle finger (IOAD SIDE)
- 4. Draw-out handle
- 5. Position indicator
- 6. Handle storage space
- 7. Pad lock button
- 8. Connecting conductor (Line side)
- 9. Connecting conductor (Load side)

Cradle (Internal)



Cradle (Rear)



Provision for multiple connection options meets various installation needs and offers ease of termination while fabricating the switch board and during installation.

Overview







Ratings



Ampere frame	(AF))	
Rated current(A)	(In r	max)	at 40 ℃
Setting current (A) *	Con	trol trip relay (.	× In max)
Rated current of neutral pole	(A)		
Rated insulation voltage(V)	(Ui)		
Rated operating voltage(V)	(Ue))	
Rated impulse withstand vol	tage (kV)(Uin	np)	
Frequency (Hz)			
Number of poles (P)			
Rated breaking capacity (kA	sym)	IEC 60047.0	220V/230V/380V/415V
AC 50/60Hz	(lcu)	IEC 60947-2 KS C 4620	460V/480V/500V
		KS C 4620	550V/600V/690V
Rated service breaking capa	city (kA) (lcs))	%×lcu
Rated making capacity (kA p	eak)	IEC 60047.0	220V/230V/380V/415V
AC 50/60Hz	(lcm	IEC 60947-2 KS C 4620	460V/480V/500V
		NS C 4620	550V/600V/690V
Rated short-time			1 sec
withstand current (kA)	(lcw)	2 sec
			3 sec
Operating time (ms)			Maximum total breaking time
			Maximum closing time
Life cycle (time)		Mechanical	Without maintenance
			With maintenance
		Electrical	Without maintenance
			With maintenance
Connections **	Drav	w-out / Fixed	Horizontal connection
			Vertical connection
			Front connection
			Mixed connection
Weight (kg) Draw-c	ut type	Main body	Motor charging type
(3P/4P)		(With cradle)	Manual charging type
		Cradle only	
Fixed t	уре		Motor charging type
			Manual charging type
External dimensions (mm)		Draw-out	3P
$(H \times W \times D)$	н	type	4P
	100	Fixed type	3P
	D	i ixou typo	

630 800 1000 1250 1600 2000 200 400 400 630 1000 1250 1600 2000 (0.4 ~ 1.0) × In max 400 630 800 1000 1250 1600 2000 630 800 1000 1250 1600 2000 1000 690 12 50/60 3/4 65 70 65 70 65 100% 100% 100% 154 154 154 143 154 143 154 143 154 143 154 143 154 143 50 65 65 42 55 36 50 40 80 80 80 80 80 80 80 80 80 80 80 80 80	IPAN-06D	IPAN-08D	IPAN-10D	IPAN-13D	IPAN-16D	IPAN-20D
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630 800	200	400				
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30,000 5,000 10,000						
5,000 10,000						
10,000						
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430×334×375 430×419×375 300×300×295 300×385×295						
430×419×375 300×300×295 300×385×295				34×375		307.10
300×300×295 300×385×295						
300×385×295						







IPAS-50G

5000

5000

(0.4 ~ 1.0) × In max

5000

1,000

690

12

50/60

120

120

100

100%

264

264

220

100 90

85

40 80

10,000

15,000

2,000

5,000

0

•

-

460×785×375

460×1015×375

 $300{\times}751{\times}295$

300×981×295

N, A, P type

186/230

184/228

102/124

103/130

101/128

181/223

179/221

97/117

98/123

96/121

IPAS-63G

6300

6300

6300

Ratings

IPAS-20E	IPAS-25E	IPAS-32E	IPAS-40E	IPAS	S-50F
2000	2500	3200	4000	4000	5000
630, 800					
1000, 1250	2500	3200	4000	4000	5000
1600, 2000					
	(0.4 ~ 1.0	0) × In max		(0.4 ~ 1.0)	× In max
630, 800					
1000, 1250	2500	3200	4000	4000	5000
1600, 2000					
	1,0	000		10	00
		90		69	90
		2		1;	
	50/			50/	
	3/			3/	
	8			10	
	8			10	
	8			8	
		0%		100	
	18			22	
	18			22	
		37		18	
		5		8	
		5		7:	
		5		6	
		0		4	
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		000		10,0	
	20,0	100		15,0 2,0	
		000		5,0	
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	0		•		
	0		-		
	0		_		
	87/103		104/147	107/	139
	85/101		102/145	102/	
	44/50		58/70	65/	
	44/55		63/100	61/	/81
	42/53		61/98	60/	
	430×4	12×375		460×62	29×375
	430×5	27×375	2.5	460×79	
	300×3	78×295		300×59	97×295
	300×4	93×295		300×76	87×295
	N, A,	P type		N, A, I	P type

F	IPAS-40G
5000	4000
5000	4000
n max	(0
5000	4000
	181
	179
	97/
	98/
	96/
375	
375	
295	
295	

Refer to trip relay specification.	** ● : Standard, O : Option
------------------------------------	-----------------------------

[●] ACBs are also available for 50kA (lcs, lcu)









Ratings



IPBN-06D | IPBN-08D | IPBN-10D | IPBN-13D | IPBN-16D | IPBN-20D

Type		
Ampere frame	(AF)	
Rated current(A)	(In max)	at 40°C
Setting current (A) *	Control trip relay	/ (× In max)
Rated current of neutral pole (A)		
Rated insulation voltage(V)	(Ui)	
Rated operating voltage(V)	(Ue)	
Rated impulse withstand voltage (kV	') (Uimp)	
Frequency (Hz)		
Number of poles (P)		
Rated breaking capacity (kA sym)	IEO 000 45	220V/230V/380V/415V
AC 50/60Hz	(Icu) IEC 60947	460V/480V/500V
	KS C 4620	550V/600V/690V
Rated service breaking capacity (kA)) (Ics)	%×lcu
Rated making capacity (kA peak)	IEC 60047	220V/230V/380V/415V
AC 50/60Hz	(Icm) IEC 60947 KS C 4620	460V/480V/500V
	NS C 4620	550V/600V/690V
Rated short-time		1 sec
withstand current (kA)	(lcw)	
Operating time (ms)		Maximum total breaking time
		Maximum closing time
Life cycle (time)	Mechanica	al Without maintenance
		With maintenance
	Electrical	Without maintenance
		With maintenance
Connections =	Draw-out / Fixed	Horizontal connection
		Vertical connection
		Front connection
		Mixed connection
External dimensions (mm)	_ Draw-out	3P
(H×W×D)	type	4P
	Fixed type	3P
W		4P
Trip relay		

630	800	1000	1250	1600	2000
200	400				
400	630	1000	1250	1600	2000
630	800				
	(0.4 ~ 1.0)	× In max	K	
400	400				
630	630	1000	1250	1600	2000
	800				
		10	00		
			90		
			2		
			/60		
		3,	/4		
		65			70
		65			70
		50			65
		100%			100%
		143			154
		143			154
		105			143
		50			65
			0		
			0		
			000		
			000		
			000		
		10,	000		<u> </u>
		•			-
		0			•
		0			-
		0			-
			34×375		
			19×375		
			00×295		
			35×295		
		N, A,	P type		





IPBS-50F

(0.4 ~ 1.0) × In max

40 80 10,000 15,000 2,000 5,000

460×629×375 460×799×375 300×597×295 300×767×295 N, A, P type

5000

5000

5000

4000

4000

4000



IPBS-20E	IPBS-25E	IPBS-32E	IPBS-40E
2000	2500	3200	4000
630, 800			
1000, 1250	2500	3200	4000
1600, 2000			
	(0.4 ~ 1.0	0) × In max	
630, 800			
1000, 1250	2500	3200	4000
1600, 2000			
	1,0	100	
	69		
		2	
	50/		
	3/		
	7		
	7		
	7		
	15	0%	
	15		
	15		
		0	
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	4	0	
		0	
		000	
	20,		
	5,0		
	10,0	000	
	•		0
	0		•
	0		-
	0	10 × 275	-
		12×375	
		27×375	
		78×295 93×295	
	N, A,		
	14, 74, 1	type	

IPBS-40G	IPBS-50G	IPBS-63G
4000	5000	6300
4000	5000	6300
(0).4 ~ 1.0) × ln	max
4000	5000	6300
	1,000	
	690	
	12	
	50/60	
	3/4	
	120	
	120	
	100	
	100%	
	264	
	264	4
	220	
	100	
	40	
	80	
1	10,000	
	15,000	
	2,000	
	5,000	
	0	
	•	
	-	
	460×785×37	
4	460×1015×3	
	300×751×29 300×981×29	

* Refer to trip relay specification. ** ● : Standard, O : Option

^{*} lcw for 2 sec & 3 sec - available on request.

Trip relay (OCR)

The trip relay of Intelliprotect provides the additional protection functions for voltage, frequency, unbalance, and other in addition to main protection functions for over current, short-circuit, ground fault. It supports the advanced measurement functions for voltage, current, power,

electric energy, harmonics, communication function, and others.

Zone selective interlocking function makes the protective coordination more simple and thermal memory can be applied to various loads.







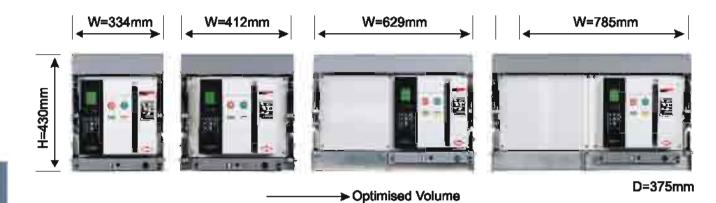
Trip relay types

		A Type	P Type
Externals			
Current protection	L/S/I/G/Thermal	L /S/I/G/ThermalZSI (Protective coordination)	L/S/I/G/Thermal (Continuous)ZSI (Protective coordination)
Other protection		Earth Leakage (Option)	 Earth leakage (Option) Over / Under current Over / Under frequency Unbalance (Voltage/Current) Reverse power
Measurement Function		Current (R / S / T / N)	 3 Phase voltage / Current Rms / Vector Power (P, Q, S), PF (3-phase) Energy (Positive / Negative) Frequency, Demand
Fine Adjustment			Fine adjustment for long/short time delay / instantaneous / ground
Pre Trip Alarm			Overload protection relays : DO (Alarm) (Ground fault is not available when using Pre trip alarm)
Digital Output		3DO (Fixed)L, S/I, G Alarm	3DO (Programmable)Trip, Alarm, General
IDMTL setting			Compliance with IEC60255-3 SIT, VITEIT, DT
Communication		Modbus / RS - 485Profibus - DP	Modbus / RS-485Profibus-DP
Power supply	Self Power Power source works over 20% of load current)	 Self Power - Power source works over 20% of load current External power source are required for comm. AC / DC 100~250V DC 24~60V 	AC/DC 100~250V DC 24~60V Basic protection function (L/S/I/G) is still under normal operation without control power.
RTC timer	Available	Available	Available
LED for Trip Info.	 Long time delay Short time delay / Instantaneous Ground fault 	N type	N type
Fault Recording		10 records (Fault / Current / Date and Time)	256 records (Fault/Current/Date and Time)
Event Record			256 records (Content, Status, Date)
Operating Button	Reset button	Reset, Menu Up / Down, Left / Right, Enter	• A Type

Accessories

intelliprotect - intelligent enough yet simple & user friendly

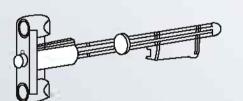
modularity & compactness



Suitability for copper & Aluminium termination



With optimised Volume & Flexibility in busbar terminations for different environmental condition made the switch board design, simple & effective.



Manual Reset Button (MRB)

It is a function which resets the circuit breaker when a circuit breaker is tripped by OCR.



Ready to close switch (RCS)

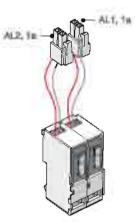
It indicates that safety parameters are full filled & circuit Breaker is ready to do closing operation.







Under voltage trip device.



Trip Alarm Contact



Counter



Pad Lock / Position Lock



Vertical / Horizontal type connection

Various other designers friendly site fittable accessories.

- Shunt coil, double shunt coil continuously rated.
- Under voltage trip device.
- Charge switch.
- Remote reset switch.
- Counter
- Vertical & Horizontal type terminals (can be rotated 90°).

Also availability of various accessories ensures complete safety / Reliability and very high performance level. Some of them are:

- Pad lock / position lock
- Key interlocks set, ON OFF button lock, mechanical interlock
- Temperature Alarm: It shows the temperature (Inside of ACB) through a sensor. The output can be connected to control terminal block.
- Mechanical Operated cell switch:
 It indicates ON / OFF condition of ACB. It operates only when breaker is in 'connected' position.
- Cell switch:
 It indicates the present position of ACB (Connected / Test / Disconnect)
- Miss Insertion prevent device:
 When the main body of ACB is inserted to the cradle, if the rating of ACB does not match with cradle, it mechanically prevents the insertion.

To summarize - availability of high performance connection accessories, accessories related to efficient, flexible, safe & better coordinated functioning of circuit breaker coupled with various indications & communication functions made Intelli protect an ideal choice for any application /installation.

Moreover, for change in power levels, installation change etc lead to extension of switchboard/upgradation of switchboard Intelliprotect is designed to adapt the conditions.

A detailed Installation Manual is also available which provides informations required not only for Installation but also for periodic / routine maintenance.

Please contact our nearest sales office for any further clarification /