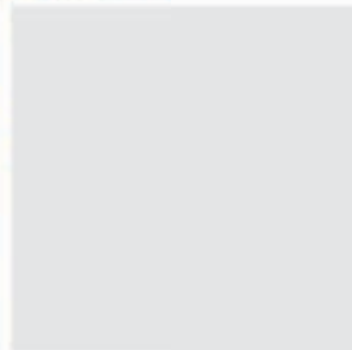


Industrial Circuit Protection

Switchgear



PRICE LIST w.e.f. 21st November, 2015



Industrial Product

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Terms & Conditions

- Prices are in Indian ₹.
- All prices are on Maximum Retail Price (MRP) basis inclusive of Excise Duty and VAT/Sales Tax. Freight / Delivery charges if paid by Havells shall be on behalf of customer only.
- Goods are despatched by us on Purchaser's risk. All claims for loss, damage or shortage will be filed by the Purchasers directly with the carriers.
- Disputes, if any are subject to Delhi jurisdiction only.
- This Price List supersedes all our previous Price Lists.
- Prices are subject to change without notice.
- Company reserves the right to issue amendments, which may arise due to any errors in the price list.



Industrial Switchgear





ACB with Microprocessor Release IPR E (3 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE1E060**#	IHATE2E060**#	68,135	91,875	IHATE4E06\$**#	IHATE5E06\$**#	88,275	1,32,610
800	50	IHATE1E080**#	IHATE2E080**#	70,410	94,950	IHATE4E08\$**#	IHATE5E08\$**#	99,740	1,33,675
1000	50	IHATE1E100**#	IHATE2E100**#	76,090	1,04,715	IHATE4E10\$**#	IHATE5E10\$**#	1,04,925	1,41,525
1250	50	IHATE1E120**#	IHATE2E120**#	92,580	1,34,205	IHATE4E12\$**#	IHATE5E12\$**#	1,32,435	1,67,090
1600	50	IHATE1E160**#	IHATE2E160**#	1,00,170	1,45,645	IHATE4E16\$**#	IHATE5E16\$**#	1,44,500	1,84,625
2000	50	IHATE1E200**#	IHATE2E200**#	1,14,530	1,75,400	IHATE4E20\$**#	IHATE5E20\$**#	1,60,450	2,10,940
2500	75	IHATH1E250**#	IHATH2E250**#	1,32,060	2,08,645	IHATH4E25\$**#	IHATH5E25\$**#	1,78,150	2,44,180
3200	100	IHATV1E320**#	IHATV2E320**#	2,08,020	2,79,720	IHATV4E32\$**#	IHATV5E32\$**#	2,51,295	3,16,405
4000	100	IHATV1E400**#	IHATV2E400**#	3,40,080	3,71,435	IHATV4E40\$**#	IHATV5E40\$**#	3,75,170	4,06,970

ACB with Microprocessor Release IPR E (4 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAPE1E060**#	IHAPE2E060**#	76,140	1,23,705	IHAPE4E06\$**#	IHAPE5E06\$**#	1,18,135	1,64,865
800	50	IHAPE1E080**#	IHAPE2E080**#	80,680	1,26,995	IHAPE4E08\$**#	IHAPE5E08\$**#	1,25,010	1,67,090
1000	50	IHAPE1E100**#	IHAPE2E100**#	91,925	1,35,905	IHAPE4E10\$**#	IHAPE5E10\$**#	1,30,145	1,78,230
1250	50	IHAPE1E120**#	IHAPE2E120**#	1,22,105	1,70,490	IHAPE4E12\$**#	IHAPE5E12\$**#	1,61,700	2,08,365
1600	50	IHAPE1E160**#	IHAPE2E160**#	1,30,335	1,93,795	IHAPE4E16\$**#	IHAPE5E16\$**#	1,73,715	2,30,485
2000	50	IHAPE1E200**#	IHAPE2E200**#	1,56,045	2,32,775	IHAPE4E20\$**#	IHAPE5E20\$**#	2,00,565	2,72,840
2500	75	IHAPE1E250**#	IHAPE2E250**#	1,78,860	2,77,430	IHAPE4E25\$**#	IHAPE5E25\$**#	2,19,440	3,13,020
3200***	100	IHAPE1E320**#	IHAPE2E320**#	2,64,115	3,47,415	IHAPE4E32\$**#	IHAPE5E32\$**#	3,06,745	3,78,310
4000***	100	IHAPE1E400**#	IHAPE2E400**#	4,00,905	4,62,055	IHAPE4E40\$**#	IHAPE5E40\$**#	4,68,430	4,94,155

ACB with Microprocessor Release IPR 1 (3 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE11060**#	IHATE21060**#	73,685	1,02,630	IHATE4106\$**#	IHATE5106\$**#	95,625	1,44,445
800	50	IHATE11080**#	IHATE21080**#	76,020	1,06,020	IHATE4108\$**#	IHATE5108\$**#	1,07,420	1,45,645
1000	50	IHATE11100**#	IHATE21100**#	81,805	1,15,845	IHATE4110\$**#	IHATE5110\$**#	1,15,620	1,53,620
1250	50	IHATE11120**#	IHATE21120**#	1,02,840	1,45,645	IHATE4112\$**#	IHATE5112\$**#	1,42,815	1,80,040
1600	50	IHATE11160**#	IHATE21160**#	1,06,405	1,53,620	IHATE4116\$**#	IHATE5116\$**#	1,52,250	1,92,595
2000	50	IHATE11200**#	IHATE21200**#	1,22,765	1,83,420	IHATE4120\$**#	IHATE5120\$**#	1,68,770	2,23,605
2500	75	IHATH11250**#	IHATH21250**#	1,40,240	2,16,720	IHATH4125\$**#	IHATH5125\$**#	1,86,405	2,52,205
3200	100	IHATV11320**#	IHATV21320**#	2,16,260	2,87,805	IHATV4132\$**#	IHATV5132\$**#	2,59,550	3,24,485
4000	100	IHATV11400**#	IHATV21400**#	3,48,260	3,79,515	IHATV4140\$**#	IHATV5140\$**#	3,83,485	4,14,995

ACB with Microprocessor Release IPR 1 (4 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAPE11060**#	IHAPE21060**#	86,485	1,35,275	IHAPE4106\$**#	IHAPE5106\$**#	1,29,775	1,77,745
800	50	IHAPE11080**#	IHAPE21080**#	90,600	1,38,770	IHAPE4108\$**#	IHAPE5108\$**#	1,36,855	1,80,040
1000	50	IHAPE11100**#	IHAPE21100**#	99,395	1,47,940	IHAPE4110\$**#	IHAPE5110\$**#	1,42,815	1,91,505
1250	50	IHAPE11120**#	IHAPE21120**#	1,32,675	1,83,420	IHAPE4112\$**#	IHAPE5112\$**#	1,74,610	2,22,405
1600	50	IHAPE11160**#	IHAPE21160**#	1,37,900	2,01,765	IHAPE4116\$**#	IHAPE5116\$**#	1,80,565	2,38,450
2000	50	IHAPE11200**#	IHAPE21200**#	1,64,165	2,40,740	IHAPE4120\$**#	IHAPE5120\$**#	2,08,880	2,80,920
2500	75	IHAPE11250**#	IHAPE21250**#	1,86,985	2,85,505	IHAPE4125\$**#	IHAPE5125\$**#	2,27,755	3,20,990
3200***	100	IHAPE11320**#	IHAPE21320**#	2,72,355	3,55,380	IHAPE4132\$**#	IHAPE5132\$**#	3,15,060	3,90,980
4000***	100	IHAPE11400**#	IHAPE21400**#	4,09,025	4,70,020	IHAPE4140\$**#	IHAPE5140\$**#	4,71,910	5,02,120

\$ Please refer table 1 to replace \$ at page-21

** Please refer table 2 to replace ** at page-21

Please refer table 3 to replace # at page-21

*** 4000 A, 4 Pole ACB is also available with 100% Neutral Pole (Price available on request)

Note : Prices on request

ACB range 630A to 4000A (IPR 3)

Industrial Switchgear

Titania Air Circuit Breaker

(Conforms to IEC:60947 - 2 / IS: 13947 - 2)

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Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions



ACB with Microprocessor Release IPR 2 (3 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE12060**#	IHATE22060**#	79,095	1,08,225	IHATE4206\$**#	IHATE5206\$**#	1,06,050	1,48,125
800	50	IHATE12080**#	IHATE22080**#	84,940	1,12,525	IHATE4208\$**#	IHATE5208\$**#	1,17,955	1,49,885
1000	50	IHATE12100**#	IHATE22100**#	88,535	1,22,670	IHATE4210\$**#	IHATE5210\$**#	1,23,290	1,58,595
1250	50	IHATE12120**#	IHATE22120**#	1,10,330	1,51,875	IHATE4212\$**#	IHATE5212\$**#	1,51,870	1,84,050
1600	50	IHATE12160**#	IHATE22160**#	1,15,050	1,57,385	IHATE4216\$**#	IHATE5216\$**#	1,60,150	1,95,625
2000	50	IHATE12200**#	IHATE22200**#	1,29,765	1,87,470	IHATE4220\$**#	IHATE5220\$**#	1,76,255	2,24,500
2500	75	IHATH12250**#	IHATH22250**#	1,47,520	2,18,765	IHATH4225\$**#	IHATH5225\$**#	1,91,115	2,54,585
3200	100	IHATV12320**#	IHATV22320**#	2,19,985	2,90,515	IHATV4232\$**#	IHATV5232\$**#	2,62,000	3,30,605
4000	100	IHATV12400**#	IHATV22400**#	3,45,700	3,83,095	IHATV4240\$**#	IHATV5240\$**#	3,87,105	4,18,910

ACB with Microprocessor Release IPR 2 (4 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAPE12060**#	IHAPE22060**#	93,250	1,42,390	IHAPE4206\$**#	IHAPE5206\$**#	1,34,860	1,81,740
800	50	IHAPE12080**#	IHAPE22080**#	97,970	1,45,810	IHAPE4208\$**#	IHAPE5208\$**#	1,42,005	1,83,170
1000	50	IHAPE12100**#	IHAPE22100**#	1,09,765	1,55,065	IHAPE4210\$**#	IHAPE5210\$**#	1,49,490	1,93,860
1250	50	IHAPE12120**#	IHAPE22120**#	1,41,000	1,91,000	IHAPE4212\$**#	IHAPE5212\$**#	1,80,455	2,24,500
1600	50	IHAPE12160**#	IHAPE22160**#	1,45,720	2,08,295	IHAPE4216\$**#	IHAPE5216\$**#	1,89,640	2,40,700
2000	50	IHAPE12200**#	IHAPE22200**#	1,71,675	2,51,170	IHAPE4220\$**#	IHAPE5220\$**#	2,16,750	2,84,675
2500	75	IHAPE12250**#	IHAPE22250**#	1,95,265	2,88,200	IHAPE4225\$**#	IHAPE5225\$**#	2,35,800	3,25,235
3200***	100	IHAPE12320**#	IHAPE22320**#	2,80,765	3,64,580	IHAPE4232\$**#	IHAPE5232\$**#	3,25,175	4,10,035
4000***	100	IHAPE12400**#	IHAPE22400**#	4,18,840	4,80,300	IHAPE4240\$**#	IHAPE5240\$**#	4,85,895	5,09,170

ACB without Release (3 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE10060**#	IHATE20060**#	56,780	79,675	IHATE4006\$**#	IHATE5006\$**#	76,865	1,18,080
800	50	IHATE10080**#	IHATE20080**#	59,050	83,810	IHATE4008\$**#	IHATE5008\$**#	88,330	1,19,780
1000	50	IHATE10100**#	IHATE20100**#	62,510	93,575	IHATE4010\$**#	IHATE5010\$**#	93,460	1,28,160
1250	50	IHATE10120**#	IHATE20120**#	81,225	1,21,690	IHATE4012\$**#	IHATE5012\$**#	1,20,970	1,52,665
1600	50	IHATE10160**#	IHATE20160**#	88,265	1,30,690	IHATE4016\$**#	IHATE5016\$**#	1,32,700	1,68,575
2000	50	IHATE10200**#	IHATE20200**#	1,02,840	1,60,495	IHATE4020\$**#	IHATE5020\$**#	1,48,655	1,97,185
2500	75	IHATH10250**#	IHATH20250**#	1,20,430	1,91,505	IHATH4025\$**#	IHATH5025\$**#	1,63,370	2,24,150
3200	100	IHATV10320**#	IHATV20320**#	1,92,220	2,55,705	IHATV4032\$**#	IHATV5032\$**#	2,32,025	2,90,095
4000	100	IHATV10400**#	IHATV20400**#	3,16,765	3,42,825	IHATV4040\$**#	IHATV5040\$**#	3,51,575	3,80,060

ACB without Release (4 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAPE10060**#	IHAPE20060**#	68,135	1,08,640	IHAPE4006\$**#	IHAPE5006\$**#	1,04,595	1,50,435
800	50	IHAPE10080**#	IHAPE20080**#	71,600	1,12,565	IHAPE4008\$**#	IHAPE5008\$**#	1,11,475	1,51,815
1000	50	IHAPE10100**#	IHAPE20100**#	80,680	1,23,705	IHAPE4010\$**#	IHAPE5010\$**#	1,18,685	1,62,105
1250	50	IHAPE10120**#	IHAPE20120**#	1,10,750	1,57,120	IHAPE4012\$**#	IHAPE5012\$**#	1,48,485	1,91,600
1600	50	IHAPE10160**#	IHAPE20160**#	1,18,645	1,78,840	IHAPE4016\$**#	IHAPE5016\$**#	1,61,915	2,13,230
2000	50	IHAPE10200**#	IHAPE20200**#	1,44,360	2,14,430	IHAPE4020\$**#	IHAPE5020\$**#	1,88,765	2,55,045
2500	75	IHAPE10250**#	IHAPE20250**#	1,64,395	2,56,795	IHAPE4025\$**#	IHAPE5025\$**#	2,04,160	2,90,640
3200***	100	IHAPE10320**#	IHAPE20320**#	2,44,305	3,22,740	IHAPE4032\$**#	IHAPE5032\$**#	2,89,665	3,58,880
4000***	100	IHAPE10400**#	IHAPE20400**#	3,79,200	4,31,590	IHAPE4040\$**#	IHAPE5040\$**#	4,42,815	4,63,145

\$ Please refer table 1 to replace \$ at page-21

** Please refer table 2 to replace ** at page-21

Please refer table 3 to replace # at page-21

*** 4000 A, 4 Pole ACB is also available with 100% Neutral Pole (Price available on request)

Note : Prices on request
ACB range 630A to 4000A (IPR 3)



ACB with Microprocessor Release IPR 1 (3 Pole)

Current Rating	Breaking Capacity	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
(A)	415V (kA)	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHATS11060**#	IHATS21060**#	94,385	1,26,650	IHATS4106\$**#	IHATS5106\$**#	1,25,060	1,66,285
800	65	IHATS11080**#	IHATS21080**#	97,385	1,30,910	IHATS4108\$**#	IHATS5108\$**#	1,36,855	1,67,920
1000	65	IHATS11100**#	IHATS21100**#	1,02,285	1,41,065	IHATS4110\$**#	IHATS5110\$**#	1,42,135	1,76,545
1250	65	IHATS11120**#	IHATS21120**#	1,29,110	1,69,885	IHATS4112\$**#	IHATS5112\$**#	1,70,455	2,01,765
1600	65	IHATS11160**#	IHATS21160**#	1,33,785	1,75,455	IHATS4116\$**#	IHATS5116\$**#	1,78,770	2,13,230
2000	65	IHATS11200**#	IHATS21200**#	1,48,475	2,05,260	IHATS4120\$**#	IHATS5120\$**#	1,94,720	2,41,940

ACB with Microprocessor Release IPR 1 (4 Pole)

Current Rating	Breaking Capacity	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
(A)	415V (kA)	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHAFS11060**#	IHAFS21060**#	1,12,185	1,56,455	IHAFS4106\$**#	IHAFS5106\$**#	1,53,600	1,99,475
800	65	IHAFS11080**#	IHAFS21080**#	1,16,865	1,60,495	IHAFS4108\$**#	IHAFS5108\$**#	1,60,675	2,01,005
1000	65	IHAFS11100**#	IHAFS21100**#	1,25,660	1,71,960	IHAFS4110\$**#	IHAFS5110\$**#	1,68,095	2,11,485
1250	65	IHAFS11120**#	IHAFS21120**#	1,59,495	2,06,350	IHAFS4112\$**#	IHAFS5112\$**#	1,98,765	2,41,940
1600	65	IHAFS11160**#	IHAFS21160**#	1,64,165	2,23,605	IHAFS4116\$**#	IHAFS5116\$**#	2,07,865	2,57,995
2000	65	IHAFS11200**#	IHAFS21200**#	1,89,880	2,59,085	IHAFS4120\$**#	IHAFS5120\$**#	2,34,830	2,99,810

ACB with Microprocessor Release IPR 2 (3 Pole)

Current Rating	Breaking Capacity	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
(A)	415V (kA)	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHATS12060**#	IHATS22060**#	1,04,710	1,35,820	IHATS4206\$**#	IHATS5206\$**#	1,34,500	1,75,455
800	65	IHATS12080**#	IHATS22080**#	1,07,745	1,40,075	IHATS4208\$**#	IHATS5208\$**#	1,46,295	1,77,095
1000	65	IHATS12100**#	IHATS22100**#	1,12,690	1,50,230	IHATS4210\$**#	IHATS5210\$**#	1,51,575	1,85,720
1250	65	IHATS12120**#	IHATS22120**#	1,39,765	1,79,055	IHATS4212\$**#	IHATS5212\$**#	1,79,885	2,10,940
1600	65	IHATS12160**#	IHATS22160**#	1,44,485	1,84,620	IHATS4216\$**#	IHATS5216\$**#	1,88,205	2,22,405
2000	65	IHATS12200**#	IHATS22200**#	1,59,315	2,14,430	IHATS4220\$**#	IHATS5220\$**#	2,04,160	2,51,115

\$ Please refer table 1 to replace \$ at page-21

** Please refer table 2 to replace ** at page-21

Please refer table 3 to replace # at page-21

Note : Prices on request

ACB range 630A to 2000A (65kA) (IPR 3)

Industrial Switchgear

Titania Air Circuit Breaker

(Conforms to IEC:60947 - 2 / IS: 13947 - 2)

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Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions



ACB with Microprocessor Release IPR 2 (4 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHAFS12060**#	IHAFS22060**#	1,22,685	1,67,190	IHAFS4206\$**#	IHAFS5206\$**#	1,64,575	2,10,615
800	65	IHAFS12080**#	IHAFS22080**#	1,27,405	1,71,270	IHAFS4208\$**#	IHAFS5208\$**#	1,71,715	2,12,155
1000	65	IHAFS12100**#	IHAFS22100**#	1,36,285	1,82,840	IHAFS4210\$**#	IHAFS5210\$**#	1,79,205	2,22,735
1250	65	IHAFS12120**#	IHAFS22120**#	1,70,435	2,17,555	IHAFS4212\$**#	IHAFS5212\$**#	2,10,170	2,53,485
1600	65	IHAFS12160**#	IHAFS22160**#	1,75,155	2,34,970	IHAFS4216\$**#	IHAFS5216\$**#	2,19,355	2,69,685
2000	65	IHAFS12200**#	IHAFS22200**#	2,01,105	2,70,785	IHAFS4220\$**#	IHAFS5220\$**#	2,46,575	3,11,895

ACB Without Release (3 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHATS10060**#	IHATS20060**#	78,760	1,11,645	IHATS4006\$**#	IHATS5006\$**#	1,09,565	1,51,650
800	65	IHATS10080**#	IHATS20080**#	81,790	1,15,940	IHATS4008\$**#	IHATS5008\$**#	1,21,470	1,53,305
1000	65	IHATS10100**#	IHATS20100**#	86,735	1,26,190	IHATS4010\$**#	IHATS5010\$**#	1,26,810	1,62,010
1250	65	IHATS10120**#	IHATS20120**#	1,13,815	1,55,290	IHATS4012\$**#	IHATS5012\$**#	1,55,385	1,87,470
1600	65	IHATS10160**#	IHATS20160**#	1,18,530	1,60,905	IHATS4016\$**#	IHATS5016\$**#	1,63,780	1,99,040
2000	65	IHATS10200**#	IHATS20200**#	1,33,360	1,91,000	IHATS4020\$**#	IHATS5020\$**#	1,79,885	2,28,025

ACB Without Release (4 Pole)

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		MRP		Ordering Code		MRP	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHAFS10060**#	IHAFS20060**#	96,735	1,41,735	IHAFS4006\$**#	IHAFS5006\$**#	1,38,370	1,85,155
800	65	IHAFS10080**#	IHAFS20080**#	1,01,455	1,45,810	IHAFS4008\$**#	IHAFS5008\$**#	1,45,520	1,86,700
1000	65	IHAFS10100**#	IHAFS20100**#	1,10,330	1,57,380	IHAFS4010\$**#	IHAFS5010\$**#	1,53,005	1,97,275
1250	65	IHAFS10120**#	IHAFS20120**#	1,44,485	1,92,100	IHAFS4012\$**#	IHAFS5012\$**#	1,83,970	2,28,025
1600	65	IHAFS10160**#	IHAFS20160**#	1,49,200	2,09,510	IHAFS4016\$**#	IHAFS5016\$**#	1,93,160	2,44,230
2000	65	IHAFS10200**#	IHAFS20200**#	1,75,155	2,45,330	IHAFS4020\$**#	IHAFS5020\$**#	2,20,385	2,86,440

\$ Please refer table 1 to replace \$ at page-21

** Please refer table 2 to replace ** at page-21

Please refer table 3 to replace # at page-21

Note : Prices on request

ACB range 630A to 4000A (65kA) (IPR 3)

1. Microprocessor Based OCR (IPR)

S.No.	SAP Code	Description	MRP
1-1	ISACX0172	IPR-E	10,400
1-2	ISACX0214	IPR-1	15,600
1-3	ISACX0173	IPR-2	20,800
1-4	ISACX0199	IPR-3	46,800
1-5	SACX0346	Communication software for IPR-3	Av. on request

2. Spring Charging Motor

S.No.	SAP Code	Description	MRP
2-1	ISACX0358	Charging Motor 110 V	26,000
2-2	ISACX0147	Charging Motor 230 V	26,000

3. Main CTs *1

S.No.	SAP Code	Description	MRP
3-1	ICELFACL018	CT 400A	2,030
3-2	ICELFACL001	CT 630A	2,030
3-3	ICELFACL002	CT 800A	2,030
3-4	ICELFACL003	CT 1000A	2,030
3-5	ICELFACL004	CT 1250A	2,030
3-6	ICELFACL005	CT 1600A	2,185
3-7	ICELFACL006	CT 2000A	2,600
3-8	ICELFACL007	CT 2500A	3,120

4. Neutral CTs *2

S.No.	SAP Code	Description	MRP
4-1	ICELFACL019	NCT 400A	2,030
4-2	ICELFACL012	NCT 630A	2,030
4-3	ICELFACL013	NCT 800A	2,030
4-4	ICELFACL014	NCT 1000A	2,030
4-5	ICELFACL015	NCT 1250A	2,030
4-6	ICELFACL016	NCT 1600A	2,185
4-7	ICELFACL017	NCT 2000A	2,600
4-8	ICELFACL021	NCT 2500A	3,640
4-9	ICELFACL022	NCT 3200A	4,160
4-10	ICELFACL023	NCT 4000A	4,680

5. Under Voltage Trip Device (UVT)

S.No.	SAP Code	Description	MRP
5-1	ISACX0196	220 VAC/DC	3,120
5-2	ISACX0197	415 VAC	3,640

6. Shunt Trip / Closing Coil

S.No.	SAP Code	Description	MRP
6-1	ISACX0170	24 VDC	2,600
6-2	ISACX0168	110 VAC/DC	2,600
6-3	ISACX0167	220 VAC/DC	2,600
6-4	ISACX0212	415 VAC	2,600

7. Key Lock / Key Interlock

S.No.	SAP Code	Description	MRP
7-1	ISACX0353	Key lock (1 lock+1 key)	780
7-2	ISACX0181	Key interlock (2 locks+1 keys)	1,455
7-3	ISACX0210	Key interlock (3 locks+2 keys)	2,185
7-4	ISACX0332	Castle Lock Unit (1 lock+1 key)	3,305
7-5	ISSACX0437	Castle Lock Unit (2 lock+1 key)	5,830
7-6	ISSACX0436	Castle Lock Unit (3 lock+2 key)	9,275

8. Adaptor Type Terminals (additional price)

(6 nos. reqd. for 3 pole & 8 nos. for 4 pole ACB)

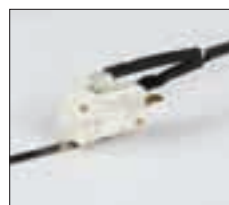
S.No.	SAP Code	Description	MRP
8-1	SACP0174	630/800A	1,560
8-2	SACP0175	1000/1250A	2,080
8-3	SACP0179	1600A	2,290
8-4	SACP0176	2000A	2,600

9. Other Accessories

S.No.	SAP Code	Description	MRP
9-1	ISACX0301	On/Off Button cover	260
9-2	ISACX0207	Spring charge indication switch	470
9-3	ISACX0208	Door Interlock	1,820
9-4	ISACX0349	Trip indication Switch	440
9-5	ISACX0303	Mal Insertion prevention device	415
9-6	ISACX0139	Aux. switch (5 c/o additional)	1,300
9-7	ISACX0182	Position indication switch	1,820
9-8	ISACX0302	Field test unit	1,560
9-9	ISACX0028	Close open cycle counter	1,560
9-10	ISACX0341	Drawout position Lock	1,560
9-11	ISACX0340	Mechanical Interlock through wire	Av. on request

*1 For 3200A & 4000A rating ACBs 2 nos each of 1600 & 2000A CTs are use respectively in series on each pole.

*2 This CT is required for GFT in 3 pole ACBs for 4 Pole ACBs main CTs is used as neutral CT.



Industrial Switchgear

Titania Air Circuit Breaker

(Conforms to IEC:60947 - 2 / IS: 13947 - 2)

HAVELLS

Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions

Table 1

Closing Coil & Charging Motor		
CC (Voltage)	CM (Voltage)	\$
24	220	A
110	220	B
220	220	C
415	220	D
24	110	E
110	110	F
220	110	G
415	110	H

Table 2

UVT & SHT		
UVT (Voltage)	SHT (Voltage)	**
415	24	01 (Zero one)
415	110	02
415	220	03
415	415	04
415	0	05
220	24	06
220	110	07
220	220	08
220	415	09
220	0	10
110	24	11
110	110	12
110	220	13
110	415	14
110	0	15
24	24	16
24	110	17
24	220	18
24	415	19
24	0	20
0	24	21
0	110	22
0	220	23
0	415	24
0	0	00 (Zero Zero)

Table 3

Current Transformer	#
CT Rating is same as of ACB	0 (Zero)
400A	A
630A	B
800A	C
1000A	D
1250A	E
1600A	F
2000A	G
3200A	I
4000A	J



*ACBs are supplied with following accessories as standard fitment:

Manual Fixed	Manual Drawout	Electrical Fixed	Electrical Drawout
Aux. Contact Unit 5CO	Aux. Contact Unit 5CO Safety Shutter Aux. Isolating contact unit Horizontal Terminals	Aux. Contact Unit 5CO Shunt Trip Device Charging Motor Closing Coil	Aux. Contact Unit 5CO Safety Shutter Aux. Isolating contact unit Horizontal Terminals Shunt Trip Device Charging Motor Closing Coil

*Additional accessories except standard fitment are available on extra price.

*Neutral CT is supplied as a standard fitment in 4 Pole ACBs.

*Neutral CT prices are to be added for 3 Pole ACBs for ground fault protection.

*All orders should be accompanied with ACB order form included in catalogue.

Titania

Air Circuit Breaker

Order Form

 Please check ☒ in front of appropriate box. Fill separate sheet for each type of ACB

CUSTOMER/ DEALER NAME		ORDER NO./DATE		END USER NAME	
Rating of ACB	630A <input type="checkbox"/>	1000A <input type="checkbox"/>	1600A <input type="checkbox"/>	2500A <input type="checkbox"/>	4000A <input type="checkbox"/>
	800A <input type="checkbox"/>	1250A <input type="checkbox"/>	2000A <input type="checkbox"/>	3200A <input type="checkbox"/>	Qty.
Series	E <input type="checkbox"/>	S <input type="checkbox"/>	H <input type="checkbox"/>	V <input type="checkbox"/>	
No. of Poles	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	4 <input type="checkbox"/>	
			(100% Neutral)	(50% Neutral for V-Series only)	
Mounting	Fixed <input type="checkbox"/>	Drawout <input type="checkbox"/>	Standard (for E&S series) <input type="checkbox"/> Vertical terminals (for H&V series) <input type="checkbox"/>		
	Note: For E & S series - Adapter terminals are on demand				
Spring Charging Operation	Manual <input type="checkbox"/>	Electrical <input type="checkbox"/>	Closing Coil _____ VAC/DC Tripping Coil _____ VAC/DC Motor _____ V		
Release	<input type="checkbox"/> Without Release	<input type="checkbox"/> IPR E	<input type="checkbox"/> IPR 1	<input type="checkbox"/> IPR 2	<input type="checkbox"/> IPR 3
	CT Rating _____ A,		Neutral CT <input type="checkbox"/>		
	Setting: O/L _____ A,		S/C _____ A,		
	Inst. _____ A,		GFT _____ A,		
	Note: Unless otherwise specified O/L will be set at maximum value and all other settings would be set at mid values.				
Other Accessories	Close open cycle counter <input type="checkbox"/> Field test unit <input type="checkbox"/> Position Indication Switch <input type="checkbox"/> Spring Charge Indication Switch <input type="checkbox"/> Mechanical Interlock <input type="checkbox"/> Mal Insertion Prevention device <input type="checkbox"/> Door Interlock <input type="checkbox"/>	Five c/o additional Aux. contacts <input type="checkbox"/> Shunt Trip <input type="checkbox"/> UVT <input type="checkbox"/> Trip Indication Switch <input type="checkbox"/> Key Lock <input type="checkbox"/> Key Interlock <input type="checkbox"/>	2L+1K <input type="checkbox"/> 3L+2K <input type="checkbox"/>		

Note :

- Please specify the voltages for closing coil, shunt trip coil and UVT, available voltages are 24VDC, 110VAC/DC, 220VAC/DC and 415V AC and for motor available voltages are 220V AC/ DC and 110V AC/ DC.
- For details of Over current release, please refer the technical catalogue.

Havells Ordering Code Logic for ACB

1	2	3	4	5	6 & 7	8	9 & 10	11
ACB	POLE	SERIES	TYPE OF MOUNTING	IPR	RATING	CLOSING COIL & CHARGING MOTOR	UVT & SHUNT TRIP	CURRENT TRANSFORMER
A	T	E S	1 > MF 2 > MH 3 > MA 4 > EF 5 > EH 6 > EA	E > IPRE 0 > IPR0 1 > IPR1 2 > IPR2 3 > IPR3	06 : 630A 08 : 800A 10 : 1000A 12 : 1250A 16 : 1600A 20 : 2000A 25 : 2500A 32 : 3200A 40 : 4000A	\$ Please refer to Table No.1 at Page No.22	** Please refer to Table No. 2 at Page No.22	# Please refer to Table No. 3 at Page No.22
	F	H V						
T > Three F > Four		E > 50KA S > 65KA H > 75KA V > 100KA	MF > Manual Fixed MH > Manual Drawout MA > Manual Drawout with adapter terminals (for E & S Series only) EF > Electrical Fixed EH > Electrical Drawout EA > Electrical Drawout with adapter terminals (for E & S Series only)			0 > Without Release		

Loadline Moulded Case Circuit Breakers (AC 415V) (Conforms to IEC:60947-II / IS:13947-II)



SH Frame: Fixed Thermal & Fixed Magnetic setting | Ics = 50% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Double Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole wSN Cat. No.	MRP
10	15	SH	IHLSHAAD0015	1,460	IHLSHAAT0015	1,770	IHLSHAAF0015	2,290
	20		IHLSHAAD0020		IHLSHAAT0020		IHLSHAAF0020	
	32		IHLSHAAD0032		IHLSHAAT0032		IHLSHAAF0032	
	40		IHLSHAAD0040		IHLSHAAT0040		IHLSHAAF0040	
	50		IHLSHAAD0050		IHLSHAAT0050		IHLSHAAF0050	
	63		IHLSHAAD0063		IHLSHAAT0063		IHLSHAAF0063	
	75	SH	IHLSHAAD0075	1,565	IHLSHAAT0075	1,825	IHLSHAAF0075	2,610
	100		IHLSHAAD0100 #		IHLSHAAT0100 #		IHLSHAAF0100 #	

G Frame: Fixed Thermal & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole wSN Cat. No.	MRP
10	25	GS	IHLGSS0025	1,030	IHLGST0025	2,075	IHLGSF0025	2,730
	32		IHLGSS0032		IHLGST0032		IHLGSF0032	
	40		IHLGSS0040		IHLGST0040		IHLGSF0040	
	50		IHLGSS0050		IHLGST0050		IHLGSF0050	
	63		IHLGSS0063		IHLGST0063		IHLGSF0063	
	80		IHLGSS0080 #		IHLGST0080 #	2,140	IHLGSF0080 #	3,215
	100		IHLGSS0100 #	1,365	IHLGST0100 #		IHLGSF0100 #	
	125		IHLGSS0125 #		IHLGST0125 #	3,635	IHLGSF0125 #	4,835
	150		IHLGSS0150 #		IHLGST0150 #	4,750	IHLGSF0150 #	6,290
	160		IHLGSS0160 #		IHLGST0160 #		IHLGSF0160 #	

G Frame: Fixed Thermal & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole wSN Cat. No.	MRP
18	25	GN	IHLGNS0025	1,390	IHLGNT0025	3,915	IHLGNF0025	4,635
	32		IHLGNS0032		IHLGNT0032		IHLGNF0032	
	40		IHLGNS0040		IHLGNT0040		IHLGNF0040	
	50		IHLGNS0050		IHLGNT0050		IHLGNF0050	
	63		IHLGNS0063		IHLGNT0063		IHLGNF0063	
	80		IHLGNS0080 #		IHLGNT0080 #	4,325	IHLGNF0080 #	5,255
	100		IHLGNS0100 #	1,515	IHLGNT0100 #		IHLGNF0100 #	
	125		IHLGNS0125 #		IHLGNT0125 #	4,730	IHLGNF0125 #	5,720
	150		IHLGNS0150 #		IHLGNT0150 #	5,390	IHLGNF0150 #	6,490
	160		IHLGNS0160 #		IHLGNT0160 #		IHLGNF0160 #	

* In GS 25A / 32A / 40A / 50A / 63A are without extended terminals. However extended terminal are available on request at extra price for these rating

Extended Terminals: In G-Frame from (80A to 160A)

In SH-Frame only 100A

MCCBs of rating 80A & above are also available without extended terminals / spreader links (Price on Request).

Industrial Switchgear

Loadline Moulded Case Circuit Breakers (AC 415V)

(Conforms to IEC:60947-II / IS:13947-II)

HAVELLS

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as per Regular Terms & Conditions



G Frame: Fixed Thermal & Fixed Magnetic setting | Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
25	25	GH	IHLGHDAS0025	1,675	IHLGHT0025	4,400	IHLGHF0025	5,220
	32		IHLGHDAS0032		IHLGHT0032		IHLGHF0032	
	40		IHLGHDAS0040		IHLGHT0040		IHLGHF0040	
	50		IHLGHDAS0050		IHLGHT0050		IHLGHF0050	
	63		IHLGHDAS0063		IHLGHT0063		IHLGHF0063	
	80		IHLGHDAS0080 #	1,765	IHLGHT0080 #	4,625	IHLGHF0080 #	5,660
	100		IHLGHDAS0100 #		IHLGHT0100 #		IHLGHF0100 #	
	125		IHLGHDAS0125 #		IHLGHT0125 #	5,190	IHLGHF0125 #	6,825
	150		IHLGHDAS0150 #		IHLGHT0150 #		IHLGHF0150 #	
	160		IHLGHDAS0160 #		IHLGHT0160 #		IHLGHF0160 #	
						6,655		7,765

F Frame: Fixed Thermal & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
35	25	FN	IHLFNT0025	7,700	IHLFNF0025	8,745
	32		IHLFNT0032		IHLFNF0032	
	40		IHLFNT0040		IHLFNF0040	
	50		IHLFNT0050		IHLFNF0050	
	63		IHLFNT0063		IHLFNF0063	
	80		IHLFNT0080 #	8,250	IHLFNF0080 #	9,020
	100		IHLFNT0100 #		IHLFNF0100 #	
	125		IHLFNT0125 #		IHLFNF0125 #	
	160		IHLFNT0160 #		IHLFNF0160 #	
	200		IHLFNT0200 #		IHLFNF0200 #	
	250		IHLFNT0250 #	15,710	IHLFNF0250 #	20,495



F Frame: Fixed Thermal & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
50	25	FH	IHLFHT0025	8,660	IHLFHF0025	9,815
	32		IHLFHT0032		IHLFHF0032	
	40		IHLFHT0040		IHLFHF0040	
	50		IHLFHT0050		IHLFHF0050	
	63		IHLFHT0063		IHLFHF0063	
	80		IHLFHT0080 #	9,240	IHLFHF0080 #	10,970
	100		IHLFHT0100 #		IHLFHF0100 #	
	125		IHLFHT0125 #		IHLFHF0125 #	
	160		IHLFHT0160 #		IHLFHF0160 #	
	200		IHLFHT0200 #		IHLFHF0200 #	
	250		IHLFHT0250 #	15,940	IHLFHF0250 #	21,250



Note : Switch Disconnecter versions in different frame sizes are also available for following ratings (Prices on request) G Frame 100A, 125A

* In GN & GH 25A / 32A / 40A / 50A / 63A are without extended terminals, however extended terminals are available on request at extra price for these ratings

Extended Terminals: In G-Frame from (80A to 160A) In F-Frame from (80A to 250A)

MCCB's of rating 80A & above are also available without extended terminals / spreader links (Price on Request).



A Frame: Adjustable Thermal* & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
16	160	AS	IHLAST0160 #	6,370	IHLASF0160 #	9,160
	200		IHLAST0200 #	7,330	IHLASF0200 #	10,015

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
25	25	AS	IHLASS0025	2,245	IHLAST0025	4,450	IHLASF0025	6,155
	32		IHLASS0032		IHLAST0032		IHLASF0032	
	40		IHLASS0040		IHLAST0040		IHLASF0040	
	50		IHLASS0050		IHLAST0050		IHLASF0050	
	63		IHLASS0063		IHLAST0063		IHLASF0063	
	80		IHLASS0080 #		IHLAST0080 #		IHLASF0080 #	
	100		IHLASS0100 #		IHLAST0100 #	4,845	IHLASF0100 #	6,490
	125	AN	IHLASS0125 #	3,735	IHLAST0125 #	6,680	IHLASF0125 #	7,790
	160		IHLANS0160 #	4,300	IHLANT0160 #	8,360	IHLANF0160 #	10,375
	200		IHLANS0200 #	4,910	IHLANT0200 #	10,650	IHLANF0200 #	13,165
	250		IHLANS0250 #	5,520	IHLANT0250 #	12,595	IHLANF0250 #	16,025

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rat- ing (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
35	25	AN	IHLANT0025	5,670	IHLANF0025	6,930
	32		IHLANT0032		IHLANF0032	
	40		IHLANT0040		IHLANF0040	
	50		IHLANT0050		IHLANF0050	
	63		IHLANT0063		IHLANF0063	
	80		IHLANT0080 #	6,550	IHLANF0080 #	7,645
	100		IHLANT0100 #		IHLANF0100 #	
	125		IHLANT0125 #	6,770	IHLANF0125 #	7,975

Note : *Adjustable thermal (70% -100%)

Switch Disconnector versions in different frame sizes are also available for following ratings (Prices on request), - A Frame 200A, 250A

In A Frame 25A / 32A / 40A / 50A / 63A are without extended terminals, however extended terminals are available on request at extra price for these ratings

All MCCB's of rating 80A & above are with extended terminals. MCCB's of rating 80A & above are also available without extended terminals / spreader links (Price on Request).

A Frame: Adjustable Thermal* & Adjustable Magnetic Setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
16	160	AS	IHLASBCT0160 #	6,820	IHLASBCF0160 #	9,610
	200		IHLASBCT0200 #	7,780	IHLASBCF0200 #	10,475

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
25	80	AS	IHLASDCT0080 #	5,195	IHLASDCF0080 #	6,845
	100		IHLASDCT0100 #		IHLASDCF0100 #	
	125		IHLASDCT0125 #		IHLASDCF0125 #	
	160	AN	IHLANDCT0160 #	8,800	IHLANDCF0160 #	10,825
	200		IHLANDCT0200 #	11,085	IHLANDCF0200 #	13,635
	250		IHLANDCT0250 #	13,045	IHLANDCF0250 #	16,495

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
35	80	AN	IHLANECT0080 #	6,915	IHLANECF0080 #	7,985
	100		IHLANECT0100 #		IHLANECF0100 #	
	125		IHLANECT0125 #	7,175	IHLANECF0125 #	8,380



Industrial Switchgear

Loadline Moulded Case Circuit Breakers (AC 415V)

(Conforms to IEC:60947-II / IS:13947-II)

HAVELLS

Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions



N Frame: Adjustable Thermal* & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	MRP	Double Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole Cat. No.	MRP
27	40	NS	IHLNSDBS0040	2,655	IHLNSDBD0040	3,875	IHLNSDBT0040	5,040	IHLNSDBF0040	5,945
	50		IHLNSDBS0050		IHLNSDBD0050		IHLNSDBT0050		IHLNSDBF0050	
	63		IHLNSDBS0063		IHLNSDBD0063		IHLNSDBT0063		IHLNSDBF0063	
	80		IHLNSDBS0080 #	2,875	IHLNSDBD0080 #	4,205	IHLNSDBT0080 #	5,465	IHLNSDBF0080 #	6,450
	100		IHLNSDBS0100 #		IHLNSDBD0100 #		IHLNSDBT0100 #		IHLNSDBF0100 #	
	125		IHLNSDBS0125 #		IHLNSDBD0125 #		IHLNSDBT0125 #		IHLNSDBF0125 #	
	150		IHLNSDBS0150 #	4,530	IHLNSDBD0150 #	6,625	IHLNSDBT0150 #	8,610	IHLNSDBF0150 #	10,160
	160		IHLNSDBS0160 #		IHLNSDBD0160 #		IHLNSDBT0160 #		IHLNSDBF0160 #	

Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	MRP	Double Pole Cat. No.	MRP	Three Pole Cat. No.	MRP	Four Pole Cat. No.	MRP
36	40	NH	IHLNHEBS0040	3,420	IHLNHEBD0040	4,995	IHLNHEBT0040	6,495	IHLNHEBF0040	7,665
	50		IHLNHEBS0050		IHLNHEBD0050		IHLNHEBT0050		IHLNHEBF0050	
	63		IHLNHEBS0063		IHLNHEBD0063		IHLNHEBT0063		IHLNHEBF0063	
	80		IHLNHEBS0080 #	3,850	IHLNHEBD0080 #	5,625	IHLNHEBT0080 #	7,315	IHLNHEBF0080 #	8,630
	100		IHLNHEBS0100 #	3,920	IHLNHEBD0100 #	5,730	IHLNHEBT0100 #	7,450	IHLNHEBF0100 #	8,785
	125		IHLNHEBS0125 #	4,055	IHLNHEBD0125 #	5,925	IHLNHEBT0125 #	7,700	IHLNHEBF0125 #	9,090
	150		IHLNHEBS0150 #	5,010	IHLNHEBD0150 #	7,325	IHLNHEBT0150 #	9,520	IHLNHEBF0150 #	11,235
	160		IHLNHEBS0160 #		IHLNHEBD0160 #		IHLNHEBT0160 #		IHLNHEBF0160 #	

N Frame: Integrated Earth Leakage MCCB | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Four Pole Cat. No.	MRP	Breaking Capacity Icu at 415V (kA)	Frame	Four Pole Cat. No.	MRP
27	40	NS	IHENSDBF0040	22,305	36	NH	IHENHEBF0040	28,750
	50		IHENSDBF0050				IHENHEBF0050	
	63		IHENSDBF0063				IHENHEBF0063	
	80		IHENSDBF0080 #	IHENHEBF0080 #			32,360	
	100		IHENSDBF0100 #	IHENHEBF0100 #			32,950	
	125		IHENSDBF0125 #	IHENHEBF0125 #			34,080	
	150		IHENSDBF0150 #	IHENHEBF0150 #			42,130	
	160		IHENSDBF0160 #	IHENHEBF0160 #				

L Frame: Adjustable Thermal* & Fixed Magnetic setting | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
36	200	LS	IHLLSEBT0200 #	18,200	IHLLSEBF0200 #	21,720
	250		IHLLSEBT0250 #	18,870	IHLLSEBF0250 #	22,650
	320		IHLLSEBT0320 #	20,765	IHLLSEBF0320 #	27,680
	400		IHLLSEBT0400 #		IHLLSEBF0400 #	
	500		IHLLSEBT0500 #	24,180	IHLLSEBF0500 #	30,080
	630		IHLLSEBT0630 #	24,995	IHLLSEBF0630 #	31,205

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
50	200	LN	IHLLNFBT0200 #	19,000	IHLLNFBF0200 #	22,650
	250		IHLLNFBT0250 #	20,440	IHLLNFBF0250 #	24,275
	320		IHLLNFBT0320 #	22,355	IHLLNFBF0320 #	29,385
	400		IHLLNFBT0400 #		IHLLNFBF0400 #	
	500		IHLLNFBT0500 #	26,570	IHLLNFBF0500 #	32,755
	630		IHLLNFBT0630 #	27,425	IHLLNFBF0630 #	35,370

Note : # MCCBs are with extended terminals. *Adjustable thermal (80% -100%)





L Frame: Adjustable Thermal & Adjustable Magnetic setting* | Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
36	200	LS	IHLLSECT0200 #	18,900	IHLLSECF0200 #	22,560
	250		IHLLSECT0250 #	19,505	IHLLSECF0250 #	23,280
	320		IHLLSECT0320 #	21,390	IHLLSECF0320 #	28,315
	400		IHLLSECT0400 #		IHLLSECF0400 #	
	500		IHLLSECT0500 #	24,775	IHLLSECF0500 #	30,670
	630		IHLLSECT0630 #	25,555	IHLLSECF0630 #	31,770

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
50	200	LN	IHLLNFCT0200 #	19,800	IHLLNFCF0200 #	23,400
	250		IHLLNFCT0250 #	21,085	IHLLNFCF0250 #	24,915
	320		IHLLNFCT0320 #	23,000	IHLLNFCF0320 #	30,020
	400		IHLLNFCT0400 #		IHLLNFCF0400 #	
	500		IHLLNFCT0500 #	27,185	IHLLNFCF0500 #	33,370
	630		IHLLNFCT0630 #	28,010	IHLLNFCF0630 #	35,960

Note : * Adjustable thermal (80% -100%) | # All MCCBs are with extended terminals & also available without extended terminal/spreader links (Price on Request)

C Frame: Adjustable Thermal & Adjustable Magnetic setting* | Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
35	160	CN	IHLCNT0160 #	22,200	IHL CNF0160 #	29,215
	200		IHLCNT0200 #		IHL CNF0200 #	
	250		IHLCNT0250 #		IHL CNF0250 #	
	315		IHLCNT0315 #	23,000	IHL CNF0315 #	30,265
	400		IHLCNT0400 #		IHL CNF0400 #	
	500		IHLCNT0500 #	27,200	IHL CNF0500 #	33,380
	630		IHLCNT0630 #	28,100	IHL CNF0630 #	34,485
	800		IHLCNT0800 #	32,725	IHL CNF0800 #	40,535

Ics = 50% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
50	160	CH	IHLCHT0160 #	23,875	IHLCHF0160 #	31,635
	200		IHLCHT0200 #		IHLCHF0200 #	
	250		IHLCHT0250 #		IHLCHF0250 #	
	315		IHLCHT0315 #		IHLCHF0315 #	
	400		IHLCHT0400 #	29,200	IHLCHF0400 #	36,290
	500		IHLCHT0500 #		IHLCHF0500 #	
	630		IHLCHT0630 #		IHLCHF0630 #	
	800		IHLCHT0800 #	35,060	IHLCHF0800 #	42,075

D Frame: Adjustable Thermal & Adjustable Magnetic setting* | Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP
50	1000	DN	IHL DNT1000 #	85,455
	1250		IHL DNT1250 #	97,970
	1600		IHL DNT1600 #	1,05,600

Note : *Adjustable thermal (70%-100%) & adjustable magnetic from 160-315A (5-10 times)/400-800A (4-10times).

Switch Disconnector versions in different frame sizes are also available for following ratings (Prices on request)

- C Frame 315A, 400A, 630A, 800A

- D Frame 1250A, 1600A

All MCCB's are with extended terminals. MCCB's are also available without extended terminals / spreader links (except DN-Frame).



Industrial Switchgear

Loadline Moulded Case Circuit Breakers (DC 250V)

(Conforms to IEC:60947-II / IS:13947-II)

HAVELLS

Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions



G Frame (DC) : Fixed Thermal & Fixed Magnetic setting | Ics = 75% of Icu

Breaking Capacity Icu at 250VDC (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP
5	25	GN	IHMCNT0025	4,115
	32		IHMCNT0032	
	40		IHMCNT0040	
	50		IHMCNT0050	
	63		IHMCNT0063	
	80		IHMCNT0080 #	
	100		IHMCNT0100 #	
	125		IHMCNT0125 #	5,485
	160		IHMCNT0160 #	6,735

A Frame (DC) : Adjustable Thermal* & Fixed Magnetic setting | Ics = 75% of Icu

Breaking Capacity Icu at 250VDC (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP
10	25	AN	IHMCA0025	5,565
	32		IHMCA0032	
	40		IHMCA0040	
	50		IHMCA0050	
	63		IHMCA0063	
	80		IHMCA0080 #	6,055
	100		IHMCA0100 #	
	125		IHMCA0125 #	
	160		IHMCA0160 #	
	200		IHMCA0200 #	
	250		IHMCA0250 #	14,705

C Frame (DC) : Adjustable Thermal & Adjustable Magnetic setting* | Ics = 50% of Icu

Breaking Capacity Icu at 250VDC (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP
20	160	CH	IHMCA0160 #	25,365
	200		IHMCA0200 #	
	250		IHMCA0250 #	
	315		IHMCA0315 #	
	400		IHMCA0400 #	30,085
	500		IHMCA0500 #	
	630		IHMCA0630 #	
	800		IHMCA0800 #	37,045

Note : *Adjustable thermal (70%-100%) & adjustable magnetic from 160-315A (5-10 times) / 400-800A (4-10 times).

All the above MCCB's are with extended terminals.

It is recommended for DC circuits, two poles are connected in series for the positive phase and the third pole be connected in the negative phase.

Accessories for Loadline MCCB Enclosures

Sl.No.	Description	Cat. No.	MRP
1.	'S' Frame TP (upto 63A)	IHESTP06	735
2.	'S' Frame TP (80 & 100A)	IHESTP10	840
3.	'S' Frame FP (upto 63A)	IHESFP06	735
4.	'S' Frame FP (80 & 100A)	IHESFP10	840
5.	'G' Frame TP	IHEGTP	1,285
6.	'G' Frame FP	IHEGFP	1,285
7.	'A' Frame TP	IHEATP	1,445
8.	'A' Frame FP	IHEAFP	1,445
9.	'F' Frame TP	IHEFTP	1,510
10.	'F' Frame FP	IHEFFP	1,510
11.	'C' Frame TP (400A)	IHECTP	6,000
12.	'C' Frame FP (400A)	IHECFP	6,500
13.	'C' Frame TP (800A)	IHECTS	6,500
14.	'C' Frame FP (800A)	IHECFS	6,500
15.	'L' Frame TP	IHELTP	5,500
16.	'L' Frame FP	IHELFP	6,000



Accessories for Loadline Moulded Case Circuit Breakers

Description	'SH' Frame		'G' Frame		'A' Frame		'F' Frame		'C' Frame		'D' Frame		'L' Frame	
	Cat. No.	MRP	Cat. No.	MRP	Cat. No.	MRP	Cat. No.	MRP	Cat. No.	MRP	Cat. No.	MRP	Cat. No.	MRP
Shunt Trip														
100-110Vac			IHLGS110	680	IHLAS110	900	IHLSTF110	900	IHLCS110	1,310	IHLSTD110	1,785	IHLS110	1,600
220-240Vac			IHLGS240	680	IHLAS240	900	IHLSTF240	900	IHLCS240	1,310	IHLSTD240	1,785	IHLS240	1,600
380-415Vac			IHLGS415	680	IHLAS415	900	IHLSTF415	900	IHLCS415	1,310	IHLSTD415	1,785	IHLS415	1,600
Under Voltage Release														
110-120Vac			IHLGU110	1,135	IHLAU110	1,325	IHLVRF110	1,325	IHLCU110	1,435	IHLVRD110	1,785	IHLLU110	1,365
220-240Vac			IHLGU240	1,135	IHLAU240	1,325	IHLVRF240	1,325	IHLCU240	1,435	IHLVRD240	1,785	IHLLU240	1,365
380-440Vac			IHLGU440	1,135	IHLAU440	1,325	IHLVRF440	1,325	IHLCU440	1,435	IHLVRD440	1,785	IHLLU415	1,365
Auxiliary Contact (250Vac/250Vdc) (450Vac/250Vdc)														
1-Changeover	IHLSA100	400	IHLASG100	715	IHLAA100	785	IHLASF100	785	IHLASC100	1,060	IHLASD100	1,420	IHLA100	925
2-Changeover	IHLSA200	505	IHLASG200	820	IHLAA200	1,155	IHLASF200	1,155	IHLASC200	1,315	IHLASD200	1,755	IHLA200	1,155
Rotary Handle														
Direct mounting			IHLGD000	945	IHLAD000	1,100								
Door Mounting	IHLRN30	735	IHLGRN30	945	IHLARN30	1,100	IHLRRHF30	1,210	IHLRRHC30	2,450	IHLRRHD30	2,450	IHLRN30	1,555
Trip Alarm Contact (Factory Fitted)			IHLALG100	690	IHLALA100	785	IHLALF100	785	IHLALC100*	1,055	—	—	IHLB000	925
Back Studs														
			—	—	IHLBSA250	\$	—	—	IHLBSC##	\$	—	—		

Note : Following additional accessories are available on request :
- Terminal Shrouds for G, A, F frame
- Dolly Pad Lock for G, A, F, C & L frame
- Factory fitted Castell Lock available in C and D frame
\$ - Back Studs (Price on Request)
* - Factory Fitted only
- Replace '#' with rating

Earth Fault Relay for MCCBs

Sl. No.	MCCBs Current Range (Amps)	Cat. No.**	MRP
1	25-100	IHEF1100	5,810
2	125-200	IHEF2200	6,600
3	250-400	IHEF3400	7,700
4	500-800	IHEF4800	9,600

- The above prices are inclusive of CBCT.
** For operating the Earth Fault Relay a Shunt trip or an UVR has to be used.
Note : *For operating Shunt Trip for G Frame, a separate auxiliary switch would be required in which case one c/o. will be used with the shunt trip, leaving one c/o. free for use.
Door mounting clamps for G & AA Frame are supplied free of cost on request basis.



Description	'N' Frame		Description	'N' Frame	
	Cat. No.	MRP		Cat. No.	MRP
Rotary Handle			Shunt Trip		
Direct	ISSLNX0166	1210	110Vac	ISSLNX0155	775
Extended Shaft	ISSLNX0167	1210	240Vac	ISSLNX0156	775
Alarm Switch			415Vac	ISSLNX0157	775
240Vac, 1NO/1NC	ISSLNX0164	785	24Vdc	ISSLNX0158	775
240Vac, 2NO/2NC	ISSLNX0165	1185	Under Voltage Release		
Motorised Switching			110Vac	ISSLNX0159	1,325
220Vac	ISSLNX0168	8415	240Vac	ISSLNX0160	1,325
415Vac	ISSLNX0169	8415	415Vac	ISSLNX0161	1,325
Din Rail Mounting			Auxiliary Contact (250Vac/250Vdc) (450Vac/250Vdc)		
SP	ISSLNX0170	150	1NO/1NC	ISSLNX0162	785
DP	ISSLNX0171	150	2NO/2NC	ISSLNX0163	1,155
TP	ISSLNX0172	240			
FP	ISSLNX0173	240			

Industrial Switchgear

Loadline Digital Moulded Case Circuit Breakers (AC 415V)

(with adjustable microprocessor release) (Conforms to IEC:60947-II / IS:13947-II)

HAVELLS

Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions



FE Frame : Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
35	25	FEN	IHLFENT0025	10,795	IHLFENF0025	13,975
	32		IHLFENT0032		IHLFENF0032	
	40		IHLFENT0040		IHLFENF0040	
	50		IHLFENT0050		IHLFENF0050	
	63		IHLFENT0063		IHLFENF0063	
	80		IHLFENT0080 #		IHLFENF0080 #	
	100		IHLFENT0100 #		IHLFENF0100 #	
	125		IHLFENT0125 #	11,435	IHLFENF0125 #	14,615
	160		IHLFENT0160 #	12,065	IHLFENF0160 #	15,245
	200		IHLFENT0200 #	15,310	IHLFENF0200 #	17,785
	250		IHLFENT0250 #	18,050	IHLFENF0250 #	21,250

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
50	25	FEH	IHLFEHT0025	11,435	IHLFEHF0025	14,615
	32		IHLFEHT0032		IHLFEHF0032	
	40		IHLFEHT0040		IHLFEHF0040	
	50		IHLFEHT0050		IHLFEHF0050	
	63		IHLFEHT0063		IHLFEHF0063	
	80		IHLFEHT0080 #		IHLFEHF0080 #	
	100		IHLFEHT0100 #		IHLFEHF0100 #	
	125		IHLFEHT0125 #	12,065	IHLFEHF0125 #	15,245
	160		IHLFEHT0160 #	13,345	IHLFEHF0160 #	16,515
	200		IHLFEHT0200 #	16,605	IHLFEHF0200 #	19,055
	250		IHLFEHT0250 #	19,440	IHLFEHF0250 #	22,580

*Adjustable thermal (40%-100%) & adjustable magnetic (6-10 times of Ir)

Extended terminal: In FEN Frame from (80A-250A)

In FEH Frame from (80A-250A)

MCCBs of rating 80A & above are also available without extended terminals/spreaderlinks (Price on request)

LE Frame : Ics = 100% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
36	250	LES	IHLLSEET0250 #	26,600	IHLLSEEF0250 #	32,200
	320		IHLLSEET0320 #		IHLLSEEF0320 #	
	400		IHLLSEET0400 #		IHLLSEEF0400 #	
	500		IHLLSEET0500 #	28,220	IHLLSEEF0500 #	37,670
	630		IHLLSEET0630 #		IHLLSEEF0630 #	

Ics = 75% of Icu

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	MRP	Four Pole (wSN) Cat. No.	MRP
50	250	LEN	IHLLNFET0250 #	29,285	IHLLNFEF0250 #	36,675
	320		IHLLNFET0320 #		IHLLNFEF0320 #	
	400		IHLLNFET0400 #		IHLLNFEF0400 #	
	500		IHLLNFET0500 #	31,765	IHLLNFEF0500 #	41,665
	630		IHLLNFET0630 #		IHLLNFEF0630 #	

*Adjustable thermal (40%-100%) & adjustable magnetic (6-10 times of Ir)

Extended terminal: In L Frame from (250A-630A)

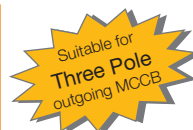
All the L Frame MCCBs are also available without extended terminals/spreaderlinks (Price on request)

Single door



'G' Frame Panel Boards, O/G TP MCCBs G-Frame

Incomer**	Outgoing* (No. of Ways)	Single Door Cat. No.	MRP	Double Door Cat. No.	MRP
250A "AA" Frame MCCB	2	IHVG025002	30,200	IHVG02500200	33,000
	4	IHVG025004	37,945	IHVG02500400	40,700
	6	IHVG025006	43,425	IHVG02500600	46,200
	8	IHVG025008	47,030	IHVG02500800	49,800
	12	IHVG025012	58,070	IHVG02501200	60,800
400A "CN" Frame MCCB	16	IHVG025016	68,325	IHVG02501600	71,100
	2	IHVG040002	36,965	IHVG04000200	39,700
	4	IHVG040004	43,485	IHVG04000400	45,250
	6	IHVG040006	50,505	IHVG04000600	53,250
	8	IHVG040008	53,400	IHVG04000800	56,150
	12	IHVG040012	65,515	IHVG04001200	65,250
	16	IHVG040016	74,825	IHVG04001600	77,600



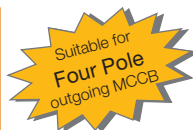
* The outgoings number of ways is the number of "G" Frame TP MCCBs that can be mounted. In case of SP MCCBs the number of MCCBs shall be three times the number of ways in TP MCCBs.

** Maximum ratings are indicated for the incoming MCCBs however lower ratings in the same frame can be ordered.

The above prices are for bare enclosures only, incoming and outgoing MCCBs have to be ordered separately.

'G' Frame Panel Boards, O/G FP MCCBs G-Frame

Incomer**	Outgoing* (No. of Ways)	Single Door Cat. No.	MRP	Double Door Cat. No.	MRP
250A "AA" Frame MCCB	2	IHVGF25002	32,505	IHVGF2500200	35,250
	4	IHVGF25004	40,430	IHVGF2500400	43,200
	6	IHVGF25006	47,610	IHVGF2500600	50,350
	8	IHVGF25008	51,380	IHVGF2500800	54,150
	12	IHVGF25012	74,545	IHVGF2501200	77,300
400A "CN" Frame MCCB	16	IHVGF25016	74,545	IHVGF2501600	77,300
	2	IHVGF40002	40,720	IHVGF4000200	43,475
	4	IHVGF40004	48,280	IHVGF4000400	51,050
	6	IHVGF40006	55,395	IHVGF4000600	58,150
	8	IHVGF40008	58,895	IHVGF4000800	61,650
	12	IHVGF40012	82,230	IHVGF4001200	85,000



* The outgoings number of ways is the number of "G" Frame FP MCCBs that can be mounted. In case of SP MCCBs the number of MCCBs shall be four times the number of way in FP O/G MCCBs.

** Maximum ratings are indicated for the incoming MCCBs however lower ratings in the same frame can be ordered.

The above prices are for bare enclosures only, incoming and outgoing MCCBs have to be ordered separately.

Accessories : Cable Alley for 'G' / 'A' Frame Panel Boards - Outgoing TP MCCB, Incomer 'A' & 'C' Frame MCCB

Sl. No.	Description*	Single Door Cat. No.	MRP	Double Door Cat. No.	MRP
1	Cable Alley I/C 250A, O/G 3P GF 2/4Way	ISSBOU0674	11,650	ISSBOU0690	12,500
2	Cable Alley I/C 250A, O/G 3P GF 6Way & 4P 2/4Way	ISSBOU0675	15,650	ISSBOU0691	16,500
3	Cable Alley I/C 250A, O/G 3P GF 8Way & 4P 6Way	ISSBOU0676	15,860	ISSBOU0692	17,300
4	Cable Alley I/C 250A, O/G 3P GF 12Way	ISSBOU0677	18,000	ISSBOU0693	18,500
5	Cable Alley I/C 250A, O/G 4P GF 8Way	ISSBOU0678	18,000	ISSBOU0694	18,500
6	Cable Alley I/C 250A, O/G 3P GF 16Way & 4P 12Way	ISSBOU0679	21,200	ISSBOU0696	22,000
7	Cable Alley I/C 400A, O/G 3P GF 2/4Way	ISSBOU0680	13,800	ISSBOU0697	14,300
8	Cable Alley I/C 400A, O/G 3P GF 6Way & 4P 2/4Way	ISSBOU0681	13,800	ISSBOU0698	14,300
9	Cable Alley I/C 400A/630A/800A, O/G 3P GF 8Way, 4P 6Way & A/F 6Way	ISSBOU0682	18,550	ISSBOU0699	19,450
10	Cable Alley I/C 400A, O/G 3P GF 12Way	ISSBOU0683	21,400	ISSBOU0700	22,000
11	Cable Alley I/C 400A/630A/800A, O/G 4P 8Way & A/F 8Way	ISSBOU0684	22,500	ISSBOU0701	23,000
12	Cable Alley I/C 400A/630A/800A, O/G 4P 12Way & A/F 12Way	ISSBOU0685	23,500	ISSBOU0702	24,000

* Each set of Cable Alley consists of two numbers, one each on LHS and RHS.

Industrial Switchgear

POWERSAFE Enclosures

Conforms to IS: 8623, IEC:60439

HAVELLS

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as per Regular Terms & Conditions

Double door



'A' Frame Panel Boards, O/G TP MCCBs

Incomer**	Outgoing* (No. of Ways)	Single Door Cat. No.	MRP	Double Door Cat. No.	MRP
400A "CN/CH" Frame MCCB	6	IHVA040006	75,420	IHVA04000600	78,170
	8	IHVA040008	78,560	IHVA04000800	81,310
	12	IHVA040012	1,05,860	IHVA04001200	1,08,610
630A "CN/CH" Frame MCCB	6	IHVA063006	81,600	IHVA06300600	84,350
	8	IHVA063008	84,525	IHVA06300800	87,275
	12	IHVA063012	1,11,445	IHVA06301200	1,14,195
800A "CN/CH" Frame MCCB	6	IHVA080006	82,030	IHVA08000600	84,780
	8	IHVA080008	85,205	IHVA08000800	87,955
	12	IHVA080012	1,12,335	IHVA08001200	1,15,085

* The outgoings number of ways is the number of "A" Frame TP MCCBs that can be mounted.

** Maximum ratings are indicated for the incoming MCCBs however lower ratings in the same frame can be ordered.

The above prices are for bare enclosures only, incoming and outgoing MCCBs have to be ordered separately.

Pre-Wired Meter Module with Voltmeter, Ammeter, Selector Switch, Ct's Control Fuse & Indicating Lights

S. No.	Description	Single Door Cat. No.	MRP	Double Door Cat. No.	MRP
1	Prewire Meter Module - Analog	ISSBOU0689	13,495	ISSBOU0706	14,000
2	Meter Module - Digital	ISSBOU0711	16,600	ISSBOU0707	17,500

Bare Meter Module / MCB Module / Add on Module

S. No.	Description	Single Door Cat. No.	MRP	Double Door Cat. No.	MRP
1	Meter Module - Analog Provision for Ammeter, Voltmeter - Analog with selec- tor switch	ISSBOU0686	5,200	ISSBOU0703	6,000
2	MCB Module	ISSBOU0687	5,200	ISSBOU0704	6,000
3	Add on Module	ISSBOU0688	5,200	ISSBOU0705	6,000

* Ammeter, Voltmeter, Selector Switch, Control Fuses, Indicating Lights, MCBs etc. have to be ordered separately and are at extra cost.

** The above prices are for bare module enclosures only.

Add on Incoming Changeover Switch Enclosure

S. No.	Description	Cat. No.	MRP
1	250A Incoming change Over switch-F1	ISSBOU0708	9,600
2	400A & 630A Incoming change Over switch - F2	ISSBOU0709	14,100
3	800A Incoming change Over switch - F3	ISSBOU0710	16,500

* Ammeter, Voltmeter, Selector Switch, Control Fuses, Indicating Lights, MCBs etc. have to be ordered separately and are at extra cost.



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as per Regular Terms & Conditions

Industrial Switchgear Euroload Changeover Switch (4 Pole) Conforms to IS:13947 (Part-3); IEC:60947-3



On-Load Changeover Switch I-O-II

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	MRP	SS Enclosure Cat. Code	MRP
00	040	IHCNFO0040	4,550	IHCNFE0040	6,305
00	063	IHCNFO0063	4,825	IHCNFE0063	6,500
00	080	IHCNFO0080	6,150	IHCNFE0080	8,000
00	100	IHCNFO0100	6,325	IHCNFE0100	8,300

Euroload Four Pole Changeover with Advance Neutral

Conforms to IS:13947 (Part-3); IEC:60947-3

On-Load Changeover Switch I-O-II

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	MRP	SS Enclosure Cat. Code	MRP
0	125	IHCNFO0125	9,495	IHCNFE0125	12,810
0	160	IHCNFO0160	10,375	IHCNFE0160	13,800
0	200	IHCNFO0200	12,445	IHCNFE0200	15,950
1	250	IHCNFO0250	18,170	IHCNFE0250	22,265
1	320	IHCNFO0320	19,575	IHCNFE0320	23,315
2	400	IHCNFO0400	28,335	IHCNFE0400	33,900
2	630	IHCNFO0630	33,500	IHCNFE0630	39,105
3	800	IHCNFO0800	49,330	IHCNFE0800	58,080
4	1000	IHCNFO1000	84,025	IHCNFE1000	1,08,110
4	1250	IHCNFO1250	1,19,395	IHCNFE1250	1,40,095
4	1600	IHCNFO1600	1,69,000	IHCNFE1600	1,89,710
5	2000	IHCNFO2000	2,05,835	IHCNFE2000	2,46,435
5	2500	IHCNFO2500	2,65,350	IHCNFE2500	3,08,990
5	3150	IHCNFO3150	3,73,750	IHCNFE3150	4,14,125

Note :

- # Prices on request
- * Phase Barriers & Handle with door interlock kit is integral part of the Changeover Switch.
- ** Aux. contacts for signalling and electrical interlocking are optional and provided at extra price.

Euroload Four Pole By Pass Switch

Conforms to IS:13947 (Part-3); IEC:60947-3

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	MRP
00	063	IHCBFO0063	9,150
00	100	IHCBFO0100	10,900

Euroload Four Pole By Pass Switch

Conforms to IS:13947 (Part-3); IEC:60947-3

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	MRP
0	125	IHCBFO0125	13,800
0	160	IHCBFO0160	16,520
0	200	IHCBFO0200	17,630
1	250	IHCBFO0250	24,755
1	320	IHCBFO0320	25,925
2	400	IHCBFO0400	37,380
2	630	IHCBFO0630	46,705
3	800	IHCBFO0800	52,225
3	1000	IHCBFO1000	1,04,130



Accessories:

Aux. Contact	Cat. No.	MRP
1 NO. 1 NC.	IHCNFACT1CO	350
2 NO. 2 NC.	IHCNFACT2CO	460

Industrial Switchgear

Instaline Automatic transfer Switch

(Conforms to IEC:60947-1 and IEC:60947-6-1)

HAVELLS

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as per Regular Terms & Conditions

Three / Four Pole, AC-31A, 50 Hz, 415V

Automatic/Manual with inbuilt Time delay

Rating AMP.	Cat. No. 3P	MRP Three Pole	Cat. No. 4P	MRP Four Pole
Open Execution				
100	IHYTSAO100	34,330	IHYFSAO100	38,300
125	IHYTSAO125	38,850	IHYFSAO125	43,345
160	IHYTSAO160	46,155	IHYFSAO160	50,110
200	IHYTSAO200	62,845	IHYFSAO200	67,155
250	IHYTSAO250	69,130	IHYFSAO250	73,870
315	IHYTSAO315	75,230	IHYFSAO315	79,490
400	IHYTSAO400	87,860	IHYFSAO400	91,885
500	IHYTSAO500	1,03,330	IHYFSAO500	1,08,060
630	IHYTSAO630	1,14,820	IHYFSAO630	1,19,110
With Enclosure				
100	IHYTSAE100	39,070	IHYFSAE100	43,135
125	IHYTSAE125	44,215	IHYFSAE125	48,420
160	IHYTSAE160	51,230	IHYFSAE160	55,295
200	IHYTSAE200	68,640	IHYFSAE200	73,090
250	IHYTSAE250	75,500	IHYFSAE250	80,400
315	IHYTSAE315	81,490	IHYFSAE315	85,880
400	IHYTSAE400	96,900	IHYFSAE400	1,01,080
500	IHYTSAE500	1,13,955	IHYFSAE500	1,18,870
630	IHYTSAE630	1,24,775	IHYFSAE630	1,31,490



Automatic/Manual with inbuilt Time delay

(with Primary Protection against Single phasing, Over Voltage, Under Voltage available with 12V D.C. control only)

Rating AMP.	Cat. No.	MRP Three Pole	MRP Four Pole
Open Execution			
100	IHY#PDO100	40,080	43,665
125	IHY#PDO125	45,360	49,015
160	IHY#PDO160	50,945	54,510
200	IHY#PDO200	70,205	70,970
250	IHY#PDO250	77,220	81,000
315	IHY#PDO315	81,435	82,275
400	IHY#PDO400	95,360	96,845
500	IHY#PDO500	1,12,145	1,13,890
630	IHY#PDO630	1,20,730	1,23,275
With Enclosure			
100	IHY#PDE100	46,940	50,770
125	IHY#PDE125	53,125	56,985
160	IHY#PDE160	57,695	62,475
200	IHY#PDE200	76,195	80,500
250	IHY#PDE250	83,820	88,555
315	IHY#PDE315	88,580	92,270
400	IHY#PDE400	1,01,865	1,05,830
500	IHY#PDE500	1,19,800	1,24,460
630	IHY#PDE630	1,28,950	1,35,315

Note :

Replace # with T - 3 Pole switch
F - 4 Pole switch



Three Pole, 415V

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	MRP	SS Enclosure Cat. Code	MRP
0	80	IHCSTO0080	1,900	IHCSTE0080	2,960
0	100	IHCSTO0100	3,100	IHCSTE0100	4,400
0	125	IHCSTO0125	4,115	IHCSTE0125	5,355
0	160	IHCSTO0160	4,910	IHCSTE0160	6,155
0	200	IHCSTO0200	5,570	IHCSTE0200	6,905
1	250	IHCSTO0250	6,960	IHCSTE0250	8,875
1	320	IHCSTO0320	7,650	IHCSTE0320	9,720
1	400	IHCSTO0400	11,005	IHCSTE0400	13,265



Euroload Switch Disconnecter

Four Pole, 415V

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	MRP	SS Enclosure Cat. Code	MRP
00	40	IHCSFO0040	1,420	IHCSFE0040	2,290
00	63	IHCSFO0063	1,685	IHCSFE0063	2,555
00	80	IHCSFO0080	2,500	IHCSFE0080	3,385
00	100	IHCSFO0100	4,030	IHCSFE0100	4,930
0	125	IHCSFO0125	4,300	IHCSFE0125	5,435
0	160	IHCSFO0160	5,145	IHCSFE0160	6,280
0	200	IHCSFO0200	6,205	IHCSFE0200	7,495
1	250	IHCSFO0250	7,785	IHCSFE0250	10,085
1	320	IHCSFO0320	8,530	IHCSFE0320	10,710
2	400	IHCSFO0400	11,835	IHCSFE0400	14,795
2	630	IHCSFO0630	13,555	IHCSFE0630	16,705
3	800	IHCSFO0800	18,825	IHCSFE0800	23,835
4	1000	IHCSFO1000	30,565	IHCSFE1000	38,590
4	1250	IHCSFO1250	42,770	IHCSFE1250	52,085
4	1600	IHCSFO1600	60,230	IHCSFE1600	70,040
5	2000	IHCSFO2000	72,395	IHCSFE2000	92,225
5	2500	IHCSFO2500	93,935	IHCSFE2500	1,20,710
5	3150	IHCSFO3150	1,32,520	IHCSFE3150	1,55,965



Industrial Switchgear

Kompact *plus* Switch Disconnecter Fuse Unit

Conforms to IS:13947 (Part I & III)

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as per Regular Terms & Conditions

Switch Disconnecter Fuse Unit - (Panel Mounting Cubicle Type)
Double Pole - AC-23A, 50Hz, 415V

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	HBC Fuse Type
	Open Execution with Fuses		In Sheet Steel Encl. with Fuses		
32	IHKDDF4032	1,645	IHKDDW4032	2,330	IHHTIA0032
32	IHKFDF4032	2,065	IHKFDW4032	2,705	IHHCD00032
63	IHKDDF4063	2,415	IHKDDW4063	3,125	IHHTSS0063
63	IHKFDF4063	2,690	IHKFDW4063	3,360	IHHCD00063
100	IHKDDF4100	5,035	IHKDDW4100	5,770	IHHTSD0100
100	IHKFDF4100	5,435	IHKFDW4100	6,210	IHHCD00100
125	IHKDDF4125	5,095	IHKDDW4125	5,810	IHHTSD0125
125	IHKFDF4125	5,575	IHKFDW4125	6,290	IHHCD00125



Kompact *plus* Switch Disconnecter Fuse Unit

Switch Disconnecter Fuse (Panel Mounting Cubicle Type)
Three Pole & Neutral - AC-23A, 50Hz, 415V

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	HBC Fuse Type
	Open Execution with 3 Fuses		In Sheet Steel Encl. with 3 Fuses		
32	IHKDTF4032	1,830	IHKDTW4032	3,005	IHHTIA0032
32	IHKFTF4032	2,290	IHKFTW4032	3,590	IHHCD00032
63	IHKDTF4063	2,600	IHKDTW4063	3,805	IHHTSS0063
63	IHKFTF4063	3,070	IHKFTW4063	4,235	IHHCD00063
100	IHKDTF4100	5,635	IHKDTW4100	7,515	IHHTSD0100
100	IHKFTF4100	5,940	IHKFTW4100	7,905	IHHCD00100
125	IHKDTF4125	6,250	IHKDTW4125	8,075	IHHTSD0125
125	IHKFTF4125	6,530	IHKFTW4125	8,360	IHHCD00125



Kompact-EZO Switch Disconnecter Fuse Unit

Switch Disconnecter Fuse (Panel Mounting Cubicle Type)
Three Pole & Neutral - AC-23A, 50Hz, 415V

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	HBC Fuse Type
	Open Execution with 3 Fuses		In Sheet Steel Encl. with 3 Fuses		
160	IHFSTF4160	7,390	IHFSTW4160	10,215	IHHTSF0160
160	IHFKTF4160	8,380	IHFKTW4160	11,285	IHHCD01160
200	IHFSTF4200	8,635	IHFSTW4200	11,575	IHHTSF0200
200	IHFKTF4200	9,000	IHFKTW4200	11,975	IHHCD01200
250	IHFSTF4250	10,505	IHFSTW4250	13,705	IHHTSF0250
250	IHFKTF4250	11,120	IHFKTW4250	14,090	IHHCD01250
320	IHFSTF4320	14,460	IHFSTW4320	17,650	IHHTSK0315
320	IHFKTF4320	15,410	IHFKTW4320	18,595	IHHCD02315
400	IHFSTF4400	16,885	IHFSTW4400	20,590	IHHTSMF400
400	IHFKTF4400	16,665	IHFKTW4400	20,340	IHHCD02400
630	IHFSTF4630	29,975	IHFSTW4630	34,215	IHHTLM0630
630	IHFKTF4630	27,360	IHFKTW4630	31,320	IHHCD03630
800	IHFSTF4800	32,365	IHFSTW4800	36,780	IHHTLM0800
800	IHFKTF4800	31,140	IHFKTW4800	35,425	IHHCD03630



* All switch disconnector fuse units if required without fuse link will be made available on request.

* IHFSTO/W 4800 and IHFKTO/W 4800 available without Fuse Link.

Four Pole - AC-23A, 50Hz, 415V

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	HBC Fuse Type
	Open Execution with 4 Fuses		In Sheet Steel Encl. with 4 Fuses		
32	IHKDF4032	2,435	IHKDFW4032	3,200	IHTIA0032
32	IHKFF4032	3,110	IHKFW4032	3,875	IHC00032
63	IHKDF4063	3,150	IHKDFW4063	3,935	IHTSS0063
63	IHKFF4063	3,650	IHKFW4063	4,410	IHC00063
100	IHKDF4100	6,535	IHKDFW4100	8,035	IHTSD0100
100	IHKFF4100	7,100	IHKFW4100	8,685	IHC00100
125	IHKDF4125	6,840	IHKDFW4125	8,310	IHTSD0125
125	IHKFF4125	7,180	IHKFW4125	8,785	IHC00125



Kompact-EZO Switch Disconnector Fuse Unit

Four Pole - AC-23A, 50Hz, 415V

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	HBC Fuse Type
	Open Execution with 4 Fuses		In Sheet Steel Encl. with 4 Fuses		
160	IHFSF4160	9,500	IHFSFW4160	11,540	IHTSF0160
160	IHKFF4160	10,720	IHKFW4160	12,810	IHC01160
200	IHFSF4200	9,960	IHFSFW4200	12,065	IHTSF0200
200	IHKFF4200	10,955	IHKFW4200	13,050	IHC01200
250	IHFSF4250	11,760	IHFSFW4250	14,355	IHTSF0250
250	IHKFF4250	11,985	IHKFW4250	14,410	IHC01250
320	IHFSF4320	15,485	IHFSFW4320	19,395	IHTSK0315
320	IHKFF4320	15,940	IHKFW4320	19,845	IHC02315
400	IHFSF4400	17,490	IHFSFW4400	21,215	IHTSMF400
400	IHKFF4400	16,975	IHKFW4400	20,685	IHC02400
630	IHFSF4630	32,220	IHFSFW4630	36,110	IHTLM0630
630	IHKFF4630	29,490	IHKFW4630	32,300	IHC03630
800	IHFSF4800	34,655	IHFSFW4800	37,935	IHTLM0800
800	IHKFF4800	33,960	IHKFW4800	37,160	IHC03630

Note:-

* All switch disconnector fuse units if required without fuse link will be made available on request.

* IHFSFO/W 4800 and IHKFO/W 4800 available without Fuse Link.



Industrial Switchgear Busbar Chambers

HAVELLS

Maximum Retail Prices (MRP) are in Indian ₹
as per Regular Terms & Conditions

Premia Series

Current Rating (A)	No. of	Cat. No.	MRP
		Wall Mounted	
63	4 WAY	IHBB006304	8,025
	6 WAY	IHBB006306	9,415
	8 WAY	IHBB006308	10,805
100	4 WAY	IHBB010004	9,650
	6 WAY	IHBB010006	13,290
	8 WAY	IHBB010008	14,075
200	4 WAY	IHBB020004	10,775
	6 WAY	IHBB020006	14,415
	8 WAY	IHBB020008	15,200
250	4 WAY	IHBB025004	16,290
	6 WAY	IHBB025006	26,400
	8 WAY	IHBB025008	36,515
315	4 WAY	IHBB031504	16,855
	6 WAY	IHBB031506	26,965
	8 WAY	IHBB031508	37,075
400	4 WAY	IHBB040004	17,975
	6 WAY	IHBB040006	28,090
	8 WAY	IHBB040008	38,200
630	4 WAY	IHBB063004	26,230
	6 WAY	IHBB063006	37,975
	8 WAY	IHBB063008	56,175
800	4 WAY	IHBB080004	27,355
	6 WAY	IHBB080006	39,100
	8 WAY	IHBB080008	57,300



Optima Series

Current Rating (A)	No. of	Cat. No.	MRP
		Wall Mounted	
63	4 WAY	IHBC006304	5,935
	6 WAY	IHBC006306	6,930
	8 WAY	IHBC006308	7,980
100	4 WAY	IHBC010004	7,140
	6 WAY	IHBC010006	9,870
	8 WAY	IHBC010008	10,370
200	4 WAY	IHBC020004	8,925
	6 WAY	IHBC020006	11,550
	8 WAY	IHBC020008	12,600

Bolted Type

IS Size	Tag Type	BS Type	Rated Voltage (Volts) AC	Breaking Capacity (kA)	Rating (Amps)	Cat No.	MRP	STD Packing
F-1	Offset	NS	415	80	2	IHHNS00002	53	20
					4	IHHNS00004		
					6	IHHNS00006		
					10	IHHNS00010		
					16	IHHNS00016	58	20
					20	IHHNS00020		
					25	IHHNS00025		
					32	IHHNS00032		
A-2	Offset	TIA	415	80	6	IHHTIA0006	74	10
					10	IHHTIA0010		
					16	IHHTIA0016		
					20	IHHTIA0020		
					25	IHHTIA0025		
					32	IHHTIA0032		
A-3	Offset	TSS	415	80	36	IHHTSS0036	84	10
					50	IHHTSS0050		
					63	IHHTSS0063		
A-4	Offset	TSD	415	80	80	IHHTSD0080	190	10
					100	IHHTSD0100		
					125	IHHTSD0125		
B-1	Central	TSDC	415	80	80	IHHTSDC080	190	10
					100	IHHTSDC100		
					125	IHHTSDC125		
B-2	Central	TSF	415	80	125	IHHTSF0125	275	10
					160	IHHTSF0160		
					200	IHHTSF0200	305	10
					250	IHHTSF0250		
B-3	Central	TSK	415	80	225	IHHTSK0225	400	3
					250	IHHTSK0250		
					300	IHHTSK0300		
					315	IHHTSK0315		
B - 4	Central	TSMF	415	80	400	IHHTSMF400	765	3
C - 1	Central	TSMS	415	80	400	IHHTSMS400	765	3
C - 2	Central	TTS	415	80	400	IHHTTS0400	860	1
					500	IHHTTS0500		
C - 2	Central	TTM	415	80	400	IHHTTM0400	1,170	1
					500	IHHTTM0500		
C - 2	Central	TLM	415	80	630	IHHTLM0630	1,560	1
C - 2	Central	TLM	415	80	800	IHHTLM0800 ^{NEW}	1,705	1



Industrial Switchgear

HiBreak HBC Fuse Link

Conforms to: IEC 60269-1 & 2-1 / IS: 13703-1 & 2-1

HAVELLS

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as per Regular Terms & Conditions

DIN Type

IS Size	Rated Voltage (Volts) AC	Breaking Capacity (kA)	Rating (Amps)	Cat No.	MRP	STD Packing
000	415	80	6	IHHCD11006	215	3
			10	IHHCD11010		
			16	IHHCD11016		
			20	IHHCD11020		
			25	IHHCD11025		
			32	IHHCD11032		
			40	IHHCD11040	220	3
			50	IHHCD11050		
			63	IHHCD11063		
			80	IHHCD11080		
			100	IHHCD11100		
00	415	80	6	IHHCD00006	237	3
			10	IHHCD00010		
			16	IHHCD00016		
			20	IHHCD00020		
			25	IHHCD00025		
			32	IHHCD00032		
			50	IHHCD00050		
			63	IHHCD00063		
			80	IHHCD00080		
			100	IHHCD00100		
01	415	80	125	IHHCD00125	305	3
			160	IHHCD00160	325	3
			32	IHHCD01032	475	3
			63	IHHCD01063		
			80	IHHCD01080		
			100	IHHCD01100		
			125	IHHCD01125		
02	415	80	160	IHHCD01160	490	3
			200	IHHCD01200		
			250	IHHCD01250	560	3
			200	IHHCD02200	735	1
			250	IHHCD02250		
			315	IHHCD02315		
			350	IHHCD02350	775	1
			400	IHHCD02400		
			425	IHHCD03425		
03	415	80	500	IHHCD03500	1,120	1
			630	IHHCD03630		



RH Type

Rated Voltage (Volts) AC	Breaking Capacity (kA)	Rating (Amps)	Cat No.	MRP	STD Packing
415	80	2	IHHRH00002	88	20
		4	IHHRH00004		
		6	IHHRH00006		
		10	IHHRH00010		
		16	IHHRH00016		20
		20	IHHRH00020		
		25	IHHRH00025		
		32	IHHRH00032		
		40	IHHRH00040	93	
		50	IHHRH00050	185	20
63	IHHRH00063	190	20		



DIN Fuse Bases (Fixed Type)

Specification: IEC: 60269-1 & 2-1 / IS: 13703-1 & 2-1.

Rated Amp.	Cat. No.	Type	Fuse Type	MRP	STD Packing
100A	IHUC000100	Open Type Fuse Base	CD-00	290	6
125A	IHUC000125	Open Type Fuse Base	CD-00	300	6
160A	IHUC000160	Open Type Fuse Base	CD-00	310	6



i Base - DIN Fuse Bases (Fixed Type)

Specification: IEC: 60269-1 & 2-1 / IS: 13703-1 & 2-1.

Rated Amp.	Cat. No.	Type	Fuse Type	MRP	STD Packing
250A	IHIC010250	Open Type Fuse Base	CD-1	575	3
400A	IHIC020400	Open Type Fuse Base	CD-2	890	3
630A	IHIC030630	Open Type Fuse Base	CD-3	1,145	3





Motor Controlgear



Control Relay with AC Coil

Frame size	I _{th}	Contact arrangement		Type	Cat. No	MRP
		NO	NC			
1	10A	2	2	CRN1-22*	IHACR22*	865
		3	1	CRN1-31*	IHACR31*	865
		4	0	CRN1-40*	IHACR40*	865



*To complete the Cat no. suffix the coil voltage from the coil voltage table (Table-1)

Contactor 3-Pole with AC Coil (9A to 95A)

Frame Size	AC-3 Duty Rating at 415V, 50 Hz			AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Auxiliary Contact Arrangement		Type	Cat. No	MRP
	I _e Amp.	kW	HP			NO	NC			
1	9	4	5.0	25	3	1	0	CN1 09 T10*	IHPAA009110*	750
	9	4	5.0	25	3	0	1	CN1 09 T01*	IHPAA009101*	750
	12	5.5	7.5	25	3	1	0	CN1 12 T10*	IHPAA012110*	875
	12	5.5	7.5	25	3	0	1	CN1 12 T01*	IHPAA012101*	875
2	18	9	12.5	32	3	1	0	CN2 18 T10*	IHPAA018210*	1,005
	18	9	12.5	32	3	0	1	CN2 18 T01*	IHPAA018201*	1,005
3	25	11	15	40	3	1	0	CN3 25 T10*	IHPAA025310*	1,325
	25	11	15	40	3	0	1	CN3 25 T01*	IHPAA025301*	1,325
4	32	15	20	50	3	1	0	CN4 32 T10*	IHPAA032410*	2,790
	32	15	20	50	3	0	1	CN4 32 T01*	IHPAA032401*	2,790
5	40	22	30	60	3	1	1	CN5 40 T11*	IHPAA040511*	4,085
	50	25	35	80	3	1	1	CN5 50 T11*	IHPAA050511*	5,215
	65	37	50	80	3	1	1	CN5 65 T11*	IHPAA065511*	7,080
6	80	45	60	125	3	1	1	CN6 80 T11*	IHPAA080611*	8,950
	95	45	60	125	3	1	1	CN6 95 T11*	IHPAA095611*	10,810



*To complete the Cat no. suffix the coil voltage from the coil voltage table (Table-1)

Note: 1. For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table.
2. Non standard coil voltages are supplied on request.

AC Coil : Table-1

Code*	A	C	E	G	H	J	K	N	W
AC Voltage	24V	48V	110V	220V	240V	380V	415V	550V	260V-415V



Contactor 3-Pole with AC coil (115A to 630A)



Frame Size	AC-3 Duty Rating at 415V, 50 Hz			AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Type	Cat. No	MRP
	I _e Amp.	kW	HP	I _{th} Amp.				
1	115	59	75	200	3	CH1 115 T*	IHPAA115100*	12,910
	150	80	100	250	3	CH1 150 T*	IHPAA150100*	17,145
2	185	100	125	275	3	CH2 185 T*	IHPAA185200*	23,365
	225	110	150	315	3	CH2 225 T*	IHPAA225200*	24,920
3	265	132	180	350	3	CH3 265 T*	IHPAA265300*	29,045
4	330	180	220	400	3	CH4 330 T*	IHPAA330400*	35,930
5	400	220	270	500	3	CH5 400 T*	IHPAA400500*	43,105
6	500	280	340	700	3	CH6 500 T*	IHPAA500600*	61,120
7	630	375	450	1000	3	CH7 630 T*	IHPAA630700*	88,625

Contactor 4-Pole with AC Coil (9A to 95A)



Frame Size	AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Type	Cat. No	MRP
	I _{th} Amp.				
1	25	4	CN1 12 F*	IHPAC012100*	1,125
3	40	4	CN3 25 F*	IHPAC025300*	1,840
5	60	4	CN5 40 F*	IHPAC040500*	4,325
	80	4	CN5 65 F*	IHPAC065500*	6,665
6	125	4	CN6 95 F*	IHPAC095600*	10,020

Contactor 4-Pole with AC coil (115A to 630A)



Frame Size	AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Type	Cat. No	MRP
	I _{th} Amp.				
1	200	4	CH1 115 F*	IHPAC115100*	17,770
	250	4	CH1 150 F*	IHPAC150100*	19,465
2	275	4	CH2 185 F*	IHPAC185200*	32,415
	315	4	CH2 225 F*	IHPAC225200*	33,920
3	350	4	CH3 265 F*	IHPAC265300*	36,640
4	400	4	CH4 330 F*	IHPAC330400*	44,060
5	500	4	CH5 400 F*	IHPAC400500*	54,535
6	700	4	CH6 500 F*	IHPAC500600*	76,715
7	1000	4	CH7 630 F*	IHPAC630700*	1,13,190

*To complete the Cat no. suffix the coil voltage from the coil voltage table

Note: 1. For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table.
2. Non standard coil voltages are supplied on request.

AC Coil



Code*	A	C	E	G	H	J	K	N
AC Voltage	24V	48V	110V	220V	240V	380V	415V	550V

Add on Accessories: Auxiliary Contact Block


Description	Suitable for Mounting on Contactors	Contact Configuration		Type	Cat No.	MRP
		NO	NC			
Side Block	CN Frame size 1-6 9A-95A 3P/4P	1	1	CAS11	ISPNASM611	355
		2	0	CAS20	ISPNASM620	355
Front Block	CN/CD Frame size 1-6 9A-95A, 3P/4P & CH Frame Size 1-7 115A-630A, 3P / 4P	1	1	CAF11	ISPNAFM711	230
		2	2	CAF22	ISPNAFM722	355
		3	1	CAF31	ISPNAFM731	355
		4	0	CAF40	ISPNAFM740	355

Add on Accessories: Pneumatic Timer Block


ON Delay	Suitable for Mounting on Contactors	Type	Cat No.	MRP
0.1 -3s	CN/CD/CH 9A-630A	CPT1A	IHNN4000	1,260
0.1-30s		CPT1B	IHNN5000	1,260
10-180s		CPT1C	IHNN6000	1,260

Add on Accessories: Pneumatic Timer Block


OFF Delay	Suitable for Mounting on Contactors	Type	Cat No.	MRP
0.1 -3s	CN/CD/CH 9A-630A	CPT2A	IHNF4000	1,260
0.1-30s		CPT2B	IHNF5000	1,260
10-180s		CPT2C	IHNF6000	1,260

Capacitor Duty Contactor 3-Pole with AC Coil


KVAR Rating at 50/60Hz 0 ≤ 55° C	Inst. Aux. Contact		Type	Cat. No.	MRP
	NO	NC			
415/440V					
12	1	0	CC2 1210*	IHPAE012210*	2,010
18	1	0	CC3 1810*	IHPAE018310*	2,835
20	1	0	CC4 2010*	IHPAE020410*	3,130
30	1	1	CC5 3011*	IHPAE030511*	5,645
50	1	1	CC6 5011*	IHPAE050611*	10,290

* To Complete Cat. No. Suffix Voltage Code From Coil Voltage Table

Note : For additional aux. contacts (side mounted type) can be mounted if required. Refer accessories table.




AC Coils

Code*	A	C	E	G	H	J	K	N
AC Voltage	24V	48V	110V	220V	240V	380V	415V	550V

Thermal Over Load Relay (Auto/ Manual Reset)

Relay Frame size	Relay Range (A)	Suitable for Contactor Frame size	Type	Cat. No.	MRP	Individual Mounting Block
1	0.1-0.16	CN1 to CN4	RT21A	IHNR 11AA	1,130	 <p>Type RTA2-25 Cat No. ISSTRX024025 Unit MRP ₹ 180</p> 
	0.16-0.25		RT21B	IHNR 11AB	1,130	
	0.25-0.4		RT21C	IHNR 11AC	1,130	
	0.4-0.63		RT21D	IHNR 11AD	1,130	
	0.63 -1		RT21E	IHNR 11AE	1,130	
	1-1.6		RT21F	IHNR 11AF	1,130	
	1.6-2.5		RT21G	IHNR 11AG	1,130	
	2.5-4		RT21H	IHNR 11AH	1,130	
	4-6		RT21J	IHNR 11AJ	1,130	
	5.5-8		RT21K	IHNR11AK	1,130	
	7-10		RT21L	IHNR 11AL	1,130	
	9-13		RT21M	IHNR 11AM	1,130	
	12-18		RT21N	IHNR 11AN	1,250	
	17-25		RT21P	IHNR 11AP	1,250	
2	23-32	CN4	RT22Q	IHNR22AQ	1,840	 <p>Type RTA2-36 Cat No. ISSTRX024136 Unit MRP ₹ 260</p>
	28-36		RT22R	IHNR22AR	1,990	
3	23-32	CN5 to CN6	RT23T	IHNR33AT	2,150	 <p>Type RTA2-93 Cat No. ISSTRX024293 Unit MRP ₹ 1020</p>
	30-40		RT23U	IHNR33AU	2,150	
	37-50		RT23V	IHNR33AV	2,585	
	48-65		RT23W	IHNR33AW	3,430	
	55-70		RT23X	IHNR33AX	3,430	
	63-80		RT23Y	IHNR33AY	3,485	
	80-93		RT23Z	IHNR33AZ	3,725	

Thermal Over Load Relay (Manual Reset)

Relay Frame size	Relay Range (A)	Suitable for Contactor Frame size	Type	Cat. No.	MRP	Individual Mounting Block
1	0.1 - 0.16	CN 1 to CN 4	RT11A	IHNR11MA	1,065	 <p>Type RTA1-25 Cat No. ISSTRX024325 Unit MRP ₹ 160</p>
	0.16-0.25		RT11B	IHNR11MB	1,065	
	0.25-0.4		RT11C	IHNR11MC	1,065	
	0.4-0.63		RT11D	IHNR11MD	1,065	
	0.63-1		RT11E	IHNR11ME	1,065	
	1-1.6		RT11F	IHNR11MF	1,065	
	1.6-2.5		RT11G	IHNR11MG	1,065	
	2.5-4		RT11H	IHNR11MH	1,065	
	4-6		RT11J	IHNR11MJ	1,065	
	5.5-8		RT11K	IHNR11MK	1,065	
	7-10		RT11L	IHNR11ML	1,065	
	10-13		RT11M	IHNR11MM	1,065	
	13-18		RT11N	IHNR11MN	1,150	
	18-25		RT11P	IHNR11MP	1,150	
2	23-32	CN 5 to CN 6	RT12Q	IHNR22MQ	1,735	
	30-40		RT12R	IHNR22MR	1,735	
3	38-50	CN 5 to CN 6	RT13V	IHNR33MV	2,140	<p>Type RTA1-80 Cat No. ISSTRX024480 Unit MRP ₹ 300</p>
	48-57		RT13W	IHNR33MW	2,930	
	57-66		RT13X	IHNR33MX	3,400	
	63-80		RT13Y	IHNR33MY	3,555	

Electronic Overload Relay (Manual reset)



"Relay Frame size"	Relay Range (A)	Suitable for Contactor Frame size	Type	Cat. No	MRP
4	30-50	CH 1 to CH 2	ERT1 4A	IHETR050	6,350
	48-80		ERT1 4B	IHETR080	6,805
	60-100		ERT1 4C	IHETR100	6,805
	90-150		ERT1 4D	IHETR150	6,805
5	132-220	CH 2 to CH 5	ERT1 5E	IHETR220	8,770
6	200-330	CH 2 to CH 7	ERT1 6F	IHETR330	8,770
	300-500		ERT1 6G	IHETR500	11,795
	380-630		ERT1 6H	IHETR630	12,245

Industrial Switchgear

COSMIC STAR Motor Starters

Conforms to IS: 13947-4

HAVELLS

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as per Regular Terms & Conditions

Cosmic Star - Direct Online Starter

H.P.	kW	Contactor Rating	Overload Relay Range (Amp.)	Cat. No.	MRP
0.75	0.6	12	1-1.6	IHPDOLFA*A	1,940
1	0.7	12	1.6-2.5	IHPDOLGA*B	1,940
2	1.5	12	2.5-4	IHPDOLHA*C	1,940
3	2.2	12	4-6	IHPDOLJA*D	1,940
5	3.7	12	7-10	IHPDOLLA*E	1,940
7.5	5.6	18	10-13	IHPDOLMB*F	2,100
10	7.5	18	13-18	IHPDOLNB*G	2,100
15	11.2	32	18-25	IHPDOLPD*H	3,280
20	14.9	32	23-32	IHPDOLQD*J	6,500
25	18.7	40	30-40	IHPDOLVE*	8,000
30	22.4	50	38-50	IHPDOLWE*	9,600
40	29.8	65	57-66	IHPDOLYF*	11,000
50	37.3	80	63-80	IHPDOLZF*	14,000
60	44.8	95	80-93	IHPDOLDG*	14,500
75	56.0	115	90-150	IHPDOLDG*A	16,500
85	63.4	150	90-150	IHPDOLDG*B	18,700
100	74.6	150	132-220	IHPDOLEH*	20,500



Cosmic Star - Fully Automatic Star-Delta Starter (ASD)

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	MRP
10	7.5	18	9.0-13	IHPASDMB*	7,000
12.5	9.3	18	12.0-18	IHPASDNB*	7,100
15	11.2	25	12.0-18	IHPASDNC*	7,100
20	14.9	25	17-25	IHPASDPD*	8,925
25	18.7	32	17-25	IHPASDQD*	9,085
30	22.4	32	23-32	IHPASDQD*A	11,000
35	26.1	32	28-36	IHPASDUE*	15,750
50	37.3	50	37-50	IHPASDWE*	25,500
60	44.8	50	48-65	IHPASDWF*	29,400
75	56.0	65	55-70	IHPASDYF*	36,750
90	67.1	80	63-80	IHPASDCG*	44,000
100	74.6	95	80-93	IHPASDDG*	54,600
125	93.3	115	90-150	IHPASDDG*A	60,900
150	111.9	150	90-150	IHPASDEH*	63,000



- Starters are supplied with standard coil voltage 415V AC
- For other voltages please specify coil code from the below table. (*suffiix code)
- Wide band coils are offered with 260V - 415V (W)

AC Coils						
Code*	G	H	J	K	L	W
AC Voltage	220V	240V	380V	415V	200-400V	260-415V

Cosmic Star - Reversing Starter

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	MRP
2	1.5	18	2.5-4	IHPREVHB*	6,345
3	2.2	18	4.0-6.0	IHPREVJB*	6,345
5	3.7	18	7.0-10	IHPREVLB*	6,345
7.5	5.6	18	10.0-13	IHPREVMB*	6,345
10	7.5	18	13-18	IHPREVNb*	7,885
15	11.2	32	18-25	IHPREVPD*	8,960
20	14.9	32	28-36	IHPREVRD*	10,255



AC Coils						
Code*	G	H	J	K	L	W
AC Voltage	220V	240V	380V	415V	200-400V	260-415V

Cosmic Star - Direct On Line Submersible Pump Starter

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	MRP
1	0.75	18	1.6-2.5	IHSDOAGB*A	5,670
2	1.5	18	2.5-4	IHSDOAHB*A	5,670
3	2.2	18	5.5-8	IHSDOAKB*A	5,670
5	3.7	18	9-13	IHSDOAMB*A	5,670
7.5	5.5	18	12-18	IHSDOANB*A	5,855
10	7.5	25	17-25	IHSDOAPC*A	6,065
12.5	9.3	32	17-25	IHSDOAPD*A	6,250
15	11	32	23-32	IHSDOAQD*A	6,565



- Wide band coils are offered with 200-400V (L) and 260-415V (W). (Refer below coil voltage table)

Cosmic Star - Standard Automatic Star Delta Submersible Pump Starter

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	MRP
5	3.7	18	5.5-8	IHSASAK2*E	11,690
7.5	5.5	18	7-10	IHSASAL2*E	11,690
10	7.5	18	9-13	IHSASAM2*E	11,900
12.5	9.3	18	12-18	IHSASAN2*E	11,900
15	11	25	17-25	IHSASAP3*E	11,990
17.5	13.1	32	17-25	IHSASAP4*E	12,205
20	15	32	17-25	IHSASAP4*A	12,350
22.5	16.8	32	23-32	IHSASAQ4*E	16,015
25	19	32	23-32	IHSASAQ4*A	16,015
27.5	20.5	40	30-40	IHSASAU5*E	22,840
30	22.4	50	30-40	IHSASAU5*A	23,415
35	26.1	50	37-50	IHSASAV5*E	23,730
40	29.8	65	37-50	IHSASAV5*A	26,460
45	33.6	80	48-65	IHSASAW6*E	34,965
50	37.5	95	55-70	IHSASA1F*T	46,540



- 200-400V coil voltage is available only upto 25HP
- Wide band coils are offered with 200-400V (L) and 260-415V (W). (Refer below coil voltage table)

AC Coils		
Code*	L	W
AC Voltage	200-400V	260-415V

Industrial Switchgear

Submersible Motor Starters

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Cosmic Star - Deluxe Automatic Star Delta Submersible Pump Starter

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	MRP
5	3.7	18	5.5-8	IHDASAK2*E	12,345
7.5	5.5	18	7-10	IHDASAL2*E	12,345
10	7.5	18	9-13	IHDASAM2*E	12,675
12.5	9.3	18	12-18	IHDASAN2*E	12,675
15	11	25	17-25	IHDASAP3*E	13,260
17.5	13.1	32	17-25	IHDASAP4*E	13,485
20	15	32	17-25	IHDASAP4*A	13,575
22.5	16.8	32	23-32	IHDASAQ4*E	16,855
25	19	32	23-32	IHDASAQ4*A	16,855
27.5	20.5	40	30-40	IHDASAU5*E	24,100
30	22.4	50	30-40	IHDASAU5*A	24,675
35	26.1	50	37-50	IHDASAV5*E	24,990
40	29.8	65	37-50	IHDASAV5*A	27,720
45	33.6	80	48-65	IHDASAW6*E	36,225
50	37.5	95	55-70	IHDASA1F*T	48,825



- 200-400V coil voltage is available only upto 25HP
- Wide band coils are offered with 200-400V (L) and 260-415V (W). (Refer below coil voltage table)

AC Coils		
Code*	L	W
AC Voltage	200-400V	260-415V

Street Light Panel



Phase	Frame Size	Max. Load (kW)	Timer	Contactor Rating (A)	MCB Rating	SAP Code	MRP
3	1	6	Digital 24 Hr.	32 / TP	40 / TPN	IHXTS03060	23,100
	1	6	Astronomical	32 / TP	40 / TPN	IHXTS0306A	23,100
	2	12	Digital 24 Hr.	65 / TP	63 / TPN	IHXTS09120	33,600
	2	12	Astronomical	65 / TP	63 / TPN	IHXTS0912A	33,600
1	1	6	Digital 24 Hr.	32 / TP	40 / SPN	IHXSS01060	17,325
	1	6	Astronomical	32 / TP	40 / SPN	IHXSS0106A	17,325
	1	12	Digital 24 Hr.	65 / TP	63 / SPN	IHXSS03120	26,040
	1	12	Astronomical	65 / TP	63 / SPN	IHXSS0312A	26,040





General Purpose Switchgear



Industrial Switchgear

General Purpose Load Changeover Switch

Specification: IS/IEC 60947-1 & 3

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as per Regular Terms & Conditions

Onload Changeover Switch - AC 23 (side handle)

in sheet enclosure, 415V AC, 50 Hz.

Rating Amp.	Cat. No.	MRP
	Double Pole	
32	IHCFDE0032	1,720
63	IHCFDE0063	3,325
	Triple Pole	
32	IHCFTE0032	2,560
63	IHCFTE0063	5,020
100	IHCFTE0100	9,505
	Four Pole	
16	IHCFFE0016	2,560
32	IHCFFE0032	3,075
63	IHCFFE0063	6,180
100	IHCFFE0100	12,350



Offload Changeover Switch- AC 21 (side handle)

in sheet enclosure, 415V AC, 50 Hz.

Rating Amp.	Cat. No.	MRP
	Four Pole	
200	IHCFFE0200	18,590
320	IHCFFE0320	22,815
400	IHCFFE0400	29,810
630	IHCFFE0630	46,610
800	IHCFFE0800	58,115
1000	IHCFFE1000	81,030
1250	IHCFFE1250	1,74,060
1500	IHCFFE1500	2,00,865
2000	IHCFFE2000	2,82,890

Kit-kat Rewireable (Porcelain Fuse carrier & Base)

Specification: IS: 2086

Amps/ Volt	Cat. No.	MRP	STD. Packing
16/240	IHKRN2016	105	20
16/415	IHKRN4016	185	24
32/240	IHKRN2032	185	24
32/415	IHKRN4032	225	12
63/415 *	IHKRN4063	365	12
63/415 #	IHKDN4063	410	6
100/415 *	IHKRN4100	660	6
100/415 #	IHKDN4100	760	1
200/415 *	IHKRN4200	1,320	1
200/415 **	IHKRT4200	1,520	1
320/415 *	IHKRN4320	1,930	1
320/415**	IHKRT4320	2,275	1

* - Std., # - Dlx, ** - With Extension strips



Single Pole & Neutral / Double Pole

Amp. / Volt AC	Cat. No.	MRP
	Single Pole & Neutral	
16/240	IHSRSE2016	585
32/240	IHSRSE2032	1,395
32/415	IHSRSE4032	1,970
63/415	IHSRSE4063	3,390
	Double Pole	
16/240	IHSRDE2016	605
32/240	IHSRDE2032	1,485
32/415	IHSRDE4032	2,215
63/415	IHSRDE4063	3,905



Triple Pole with Neutral Link, 415V AC, 50 Hz

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	Suitable Fuse Type
	With Rewireable Porcelain Fuse Units		With HBC cum rewireable Porcelain Fuse Units		
16	IHSRTE4016	1,740	IHSHTTE4016	1,740	IHHNS0016
32	IHSRTE4032	2,210	IHSHTTE4032	2,200	IHHTIA0032
63	IHSRTE4063	4,535	IHSHTTE4063	4,915	IHHTSS0063
100	IHSRTE4100	8,445	IHSHTTE4100	9,005	IHHTSD0100
200	IHSRTE4200	13,920	—	—	—
320	IHSRTE4320	17,220	—	—	—

Heavy Duty Double Break Fuse Switches - HBC Fuse type

Specification: IS/IEC-60947-1 & 3.

In sheet enclosure, 415V AC, 50 Hz.

Rating Amp.	Cat. No.	MRP	Cat. No.	MRP	Fuse Type
	Triple Pole & Neutral		Four Pole with Switched Neutral		
63	IHFNTW4063	7,155	IHFNFW4063	8,750	IHHTSS0063
100	IHFNTW4100	9,680	IHFNFW4100	12,230	IHHTSD0100
160	IHFNTW4160	14,615	IHFNFW4160	17,340	IHHTSD0160
200	IHFNTW4200	16,490	IHFNFW4200	18,240	IHHTSF0200
320	IHFNTW4320	18,580	IHFNFW4320	23,225	IHHTSK0315
400	IHFNTW4400	26,655	IHFNFW4400	36,200	IHHTSMF400
500	IHFNTW4500	37,670	—	—	IHHTTM0500
800*	IHFNTW4800	46,975	—	—	IHHTLM0630



The above prices are inclusive of 3 nos. HBC Fuse Links.

* Switch suitable for 800 Amp. but fitted with 630 Amp. Fuse.

All the Switches are surface mounting type, housed in sheet steel enclosure with side handle operation and have front access left opening doors interlocked to prevent opening when the switch is in ON position.



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Other Products

ACB



MCCBs



Digital MCCB



ATS



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