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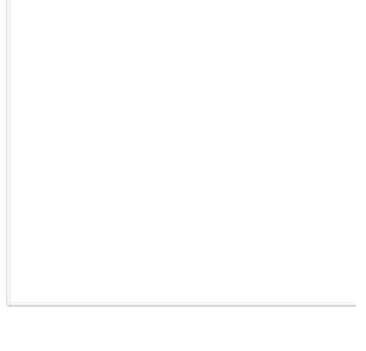
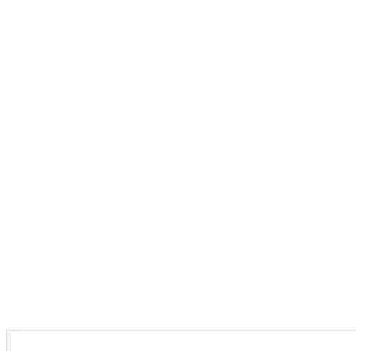
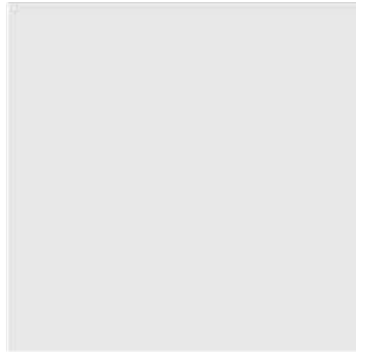
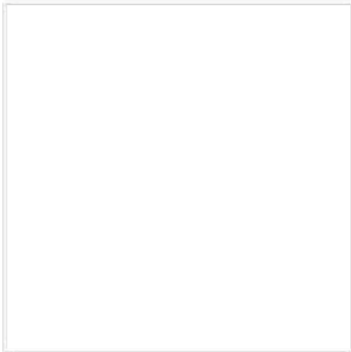
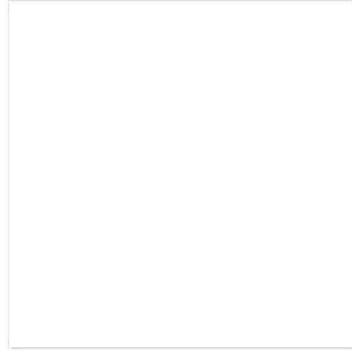
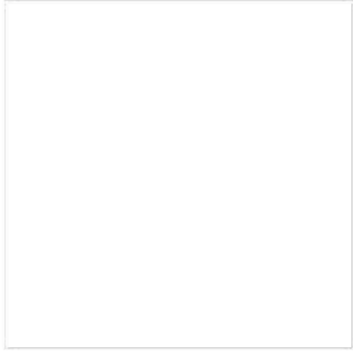
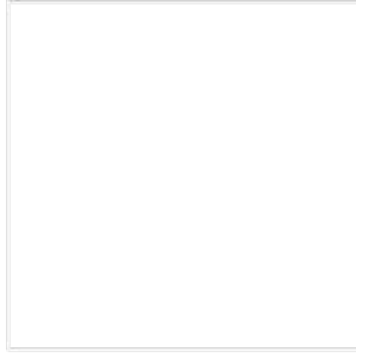
Industrial Circuit Protection



LIST PRICE : w.e.f. 2nd July, 2018

Note: All Switchgear and Controlgear Products to be billed at 18% *GST
*Subject to change as per Govt. Notificaiton

Q&Q
GROUP



Industrial Product

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Terms & Conditions

- Prices are in Indian ₹.
- All prices are on List Price (LP ₹) inclusive of GST. 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)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE1E060**#	IHATE2E060**#	58,520	81,225	IHATE4E06\$**#	IHATE5E06\$**#	75,810	117,235
800	50	IHATE1E080**#	IHATE2E080**#	60,470	83,940	IHATE4E08\$**#	IHATE5E08\$**#	85,655	118,180
1000	50	IHATE1E100**#	IHATE2E100**#	65,345	91,700	IHATE4E10\$**#	IHATE5E10\$**#	90,110	123,925
1250	50	IHATE1E120**#	IHATE2E120**#	80,285	116,385	IHATE4E12\$**#	IHATE5E12\$**#	114,855	144,910
1600	50	IHATE1E160**#	IHATE2E160**#	86,870	126,305	IHATE4E16\$**#	IHATE5E16\$**#	125,315	160,115
2000	50	IHATE1E200**#	IHATE2E200**#	100,285	150,640	IHATE4E20\$**#	IHATE5E20\$**#	140,505	181,160
2500	75	IHATH1E250**#	IHATH2E250**#	115,640	179,185	IHATH4E25\$**#	IHATH5E25\$**#	156,000	209,705
3200	100	IHATV1E320**#	IHATV2E320**#	183,905	240,230	IHATV4E32\$**#	IHATV5E32\$**#	222,165	271,735
4000	100	IHATV1E400**#	IHATV2E400**#	300,655	318,995	IHATV4E40\$**#	IHATV5E40\$**#	331,680	349,510

ACB with Microprocessor Release IPR E+ (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAPE1E060**#	IHAPE2E060**#	65,390	109,365	IHAPE4E06\$**#	IHAPE5E06\$**#	101,460	145,755
800	50	IHAPE1E080**#	IHAPE2E080**#	69,290	112,275	IHAPE4E08\$**#	IHAPE5E08\$**#	107,360	147,720
1000	50	IHAPE1E100**#	IHAPE2E100**#	78,950	119,005	IHAPE4E10\$**#	IHAPE5E10\$**#	111,775	156,070
1250	50	IHAPE1E120**#	IHAPE2E120**#	105,895	147,855	IHAPE4E12\$**#	IHAPE5E12\$**#	140,230	180,700
1600	50	IHAPE1E160**#	IHAPE2E160**#	113,030	168,065	IHAPE4E16\$**#	IHAPE5E16\$**#	150,650	199,885
2000	50	IHAPE1E200**#	IHAPE2E200**#	136,640	199,910	IHAPE4E20\$**#	IHAPE5E20\$**#	175,630	234,320
2500	75	IHAPE1E250**#	IHAPE2E250**#	156,620	238,265	IHAPE4E25\$**#	IHAPE5E25\$**#	192,155	268,825
3200***	100	IHAPE1E320**#	IHAPE2E320**#	233,495	298,365	IHAPE4E32\$**#	IHAPE5E32\$**#	271,185	324,895
4000***	100	IHAPE1E400**#	IHAPE2E400**#	354,430	396,820	IHAPE4E40\$**#	IHAPE5E40\$**#	414,120	424,390

ACB with Microprocessor Release IPR 1+ (3 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE11060**#	IHATE21060**#	63,285	90,730	IHATE4106\$**#	IHATE5106\$**#	82,120	127,700
800	50	IHATE11080**#	IHATE21080**#	65,285	93,730	IHATE4108\$**#	IHATE5108\$**#	92,255	128,760
1000	50	IHATE11100**#	IHATE21100**#	70,255	101,440	IHATE4110\$**#	IHATE5110\$**#	99,290	134,520
1250	50	IHATE11120**#	IHATE21120**#	89,185	126,305	IHATE4112\$**#	IHATE5112\$**#	123,855	156,135
1600	50	IHATE11160**#	IHATE21160**#	92,280	133,225	IHATE4116\$**#	IHATE5116\$**#	132,030	167,030
2000	50	IHATE11200**#	IHATE21200**#	107,500	157,525	IHATE4120\$**#	IHATE5120\$**#	147,785	192,035
2500	75	IHATH11250**#	IHATH21250**#	122,805	186,120	IHATH4125\$**#	IHATH5125\$**#	163,225	216,595
3200	100	IHATV11320**#	IHATV21320**#	191,190	247,170	IHATV4132\$**#	IHATV5132\$**#	229,460	278,670
4000	100	IHATV11400**#	IHATV21400**#	307,890	325,935	IHATV4140\$**#	IHATV5140\$**#	339,030	356,405

ACB with Microprocessor Release IPR 1+ (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAPE11060**#	IHAPE21060**#	74,275	119,595	IHAPE4106\$**#	IHAPE5106\$**#	111,450	157,140
800	50	IHAPE11080**#	IHAPE21080**#	77,810	122,685	IHAPE4108\$**#	IHAPE5108\$**#	117,530	159,165
1000	50	IHAPE11100**#	IHAPE21100**#	85,365	129,550	IHAPE4110\$**#	IHAPE5110\$**#	122,650	167,690
1250	50	IHAPE11120**#	IHAPE21120**#	115,055	159,070	IHAPE4112\$**#	IHAPE5112\$**#	151,430	192,875
1600	50	IHAPE11160**#	IHAPE21160**#	119,590	174,980	IHAPE4116\$**#	IHAPE5116\$**#	156,590	206,790
2000	50	IHAPE11200**#	IHAPE21200**#	143,750	206,750	IHAPE4120\$**#	IHAPE5120\$**#	182,905	241,255
2500	75	IHAPE11250**#	IHAPE21250**#	163,735	245,195	IHAPE4125\$**#	IHAPE5125\$**#	199,435	275,675
3200***	100	IHAPE11320**#	IHAPE21320**#	240,785	305,210	IHAPE4132\$**#	IHAPE5132\$**#	278,540	335,780
4000***	100	IHAPE11400**#	IHAPE21400**#	361,610	403,655	IHAPE4140\$**#	IHAPE5140\$**#	417,200	431,225

\$ Please refer table 1 to replace \$ at page-10

** Please refer table 2 to replace ** at page-10

Please refer table 3 to replace # at page-10

*** 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 IS/IEC:60947-2)

HAVELLS

List Prices (LP) are in Indian ₹
as per Regular Terms & Conditions



ACB with Microprocessor Release IPR 2 (3 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE12060**#	IHATE22060**#	67,925	95,675	IHATE4206\$**#	IHATE5206\$**#	91,075	130,950
800	50	IHATE12080**#	IHATE22080**#	72,950	99,480	IHATE4208\$**#	IHATE5208\$**#	101,305	132,510
1000	50	IHATE12100**#	IHATE22100**#	76,035	107,415	IHATE4210\$**#	IHATE5210\$**#	105,880	138,875
1250	50	IHATE12120**#	IHATE22120**#	95,680	131,710	IHATE4212\$**#	IHATE5212\$**#	131,705	159,610
1600	50	IHATE12160**#	IHATE22160**#	99,775	136,485	IHATE4216\$**#	IHATE5216\$**#	138,890	169,650
2000	50	IHATE12200**#	IHATE22200**#	113,630	161,005	IHATE4220\$**#	IHATE5220\$**#	154,340	192,800
2500	75	IHATH12250**#	IHATH22250**#	129,175	187,880	IHATH4225\$**#	IHATH5225\$**#	167,350	218,640
3200	100	IHATV12320**#	IHATV22320**#	194,485	249,495	IHATV4232\$**#	IHATV5232\$**#	231,625	283,925
4000	100	IHATV12400**#	IHATV22400**#	313,190	332,375	IHATV4240\$**#	IHATV5240\$**#	342,225	359,765

ACB with Microprocessor Release IPR 2 (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAFF12060**#	IHAFF22060**#	80,080	125,885	IHAFF4206\$**#	IHAFF5206\$**#	115,815	160,670
800	50	IHAFF12080**#	IHAFF22080**#	84,140	128,910	IHAFF4208\$**#	IHAFF5208\$**#	121,955	161,940
1000	50	IHAFF12100**#	IHAFF22100**#	94,265	135,785	IHAFF4210\$**#	IHAFF5210\$**#	128,380	169,755
1250	50	IHAFF12120**#	IHAFF22120**#	122,280	165,640	IHAFF4212\$**#	IHAFF5212\$**#	156,500	194,695
1600	50	IHAFF12160**#	IHAFF22160**#	126,370	180,645	IHAFF4216\$**#	IHAFF5216\$**#	164,465	208,745
2000	50	IHAFF12200**#	IHAFF22200**#	150,330	215,710	IHAFF4220\$**#	IHAFF5220\$**#	189,795	244,480
2500	75	IHAFFH12250**#	IHAFFH22250**#	170,985	247,515	IHAFFH4225\$**#	IHAFFH5225\$**#	206,475	279,315
3200***	100	IHAFFV12320**#	IHAFFV22320**#	248,220	313,105	IHAFFV4232\$**#	IHAFFV5232\$**#	287,475	352,145
4000***	100	IHAFFV12400**#	IHAFFV22400**#	370,285	412,490	IHAFFV4240\$**#	IHAFFV5240\$**#	429,565	437,285

ACB without Release (3 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHATE10060**#	IHATE20060**#	48,760	70,440	IHATE4006\$**#	IHATE5006\$**#	66,010	104,395
800	50	IHATE10080**#	IHATE20080**#	50,715	74,095	IHATE4008\$**#	IHATE5008\$**#	75,855	105,895
1000	50	IHATE10100**#	IHATE20100**#	53,685	81,940	IHATE4010\$**#	IHATE5010\$**#	80,265	112,225
1250	50	IHATE10120**#	IHATE20120**#	70,440	105,535	IHATE4012\$**#	IHATE5012\$**#	104,910	132,395
1600	50	IHATE10160**#	IHATE20160**#	76,545	113,335	IHATE4016\$**#	IHATE5016\$**#	115,080	146,190
2000	50	IHATE10200**#	IHATE20200**#	90,055	137,835	IHATE4020\$**#	IHATE5020\$**#	130,170	169,345
2500	75	IHATH10250**#	IHATH20250**#	105,450	164,465	IHATH4025\$**#	IHATH5025\$**#	143,055	192,505
3200	100	IHATV10320**#	IHATV20320**#	169,935	219,600	IHATV4032\$**#	IHATV5032\$**#	205,125	249,135
4000	100	IHATV10400**#	IHATV20400**#	280,045	294,420	IHATV4040\$**#	IHATV5040\$**#	310,820	326,395

ACB without Release (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	50	IHAFF10060**#	IHAFF20060**#	58,520	96,045	IHAFF4006\$**#	IHAFF5006\$**#	89,825	132,995
800	50	IHAFF10080**#	IHAFF20080**#	61,490	99,520	IHAFF4008\$**#	IHAFF5008\$**#	95,735	134,215
1000	50	IHAFF10100**#	IHAFF20100**#	69,290	108,320	IHAFF4010\$**#	IHAFF5010\$**#	101,930	141,950
1250	50	IHAFF10120**#	IHAFF20120**#	96,045	136,260	IHAFF4012\$**#	IHAFF5012\$**#	128,770	166,165
1600	50	IHAFF10160**#	IHAFF20160**#	102,895	155,095	IHAFF4016\$**#	IHAFF5016\$**#	140,415	184,915
2000	50	IHAFF10200**#	IHAFF20200**#	126,410	184,160	IHAFF4020\$**#	IHAFF5020\$**#	165,290	219,035
2500	75	IHAFFH10250**#	IHAFFH20250**#	143,955	220,535	IHAFFH4025\$**#	IHAFFH5025\$**#	178,775	249,610
3200***	100	IHAFFV10320**#	IHAFFV20320**#	215,985	277,175	IHAFFV4032\$**#	IHAFFV5032\$**#	256,085	308,215
4000***	100	IHAFFV10400**#	IHAFFV20400**#	335,240	370,655	IHAFFV4040\$**#	IHAFFV5040\$**#	391,475	397,755

\$ Please refer table 1 to replace \$ at page-10

** Please refer table 2 to replace ** at page-10

Please refer table 3 to replace # at page-10

*** 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)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHATS11060**#	IHATS21060**#	81,060	111,965	IHATS4106\$**#	IHATS5106\$**#	107,405	147,005
800	65	IHATS11080**#	IHATS21080**#	83,635	115,735	IHATS4108\$**#	IHATS5108\$**#	117,530	148,450
1000	65	IHATS11100**#	IHATS21100**#	87,845	123,530	IHATS4110\$**#	IHATS5110\$**#	122,070	154,590
1250	65	IHATS11120**#	IHATS21120**#	111,970	147,330	IHATS4112\$**#	IHATS5112\$**#	147,825	174,980
1600	65	IHATS11160**#	IHATS21160**#	116,025	152,160	IHATS4116\$**#	IHATS5116\$**#	155,035	184,915
2000	65	IHATS11200**#	IHATS21200**#	130,015	176,280	IHATS4120\$**#	IHATS5120\$**#	170,505	207,780

ACB with Microprocessor Release IPR 1+ (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHAFS11060**#	IHAFS21060**#	96,345	138,320	IHAFS4106\$**#	IHAFS5106\$**#	131,915	176,355
800	65	IHAFS11080**#	IHAFS21080**#	100,360	141,890	IHAFS4108\$**#	IHAFS5108\$**#	137,990	177,705
1000	65	IHAFS11100**#	IHAFS21100**#	107,920	150,580	IHAFS4110\$**#	IHAFS5110\$**#	144,360	185,190
1250	65	IHAFS11120**#	IHAFS21120**#	138,320	178,955	IHAFS4112\$**#	IHAFS5112\$**#	172,375	209,820
1600	65	IHAFS11160**#	IHAFS21160**#	142,370	193,920	IHAFS4116\$**#	IHAFS5116\$**#	180,265	223,740
2000	65	IHAFS11200**#	IHAFS21200**#	166,270	222,505	IHAFS4120\$**#	IHAFS5120\$**#	205,630	257,480

ACB with Microprocessor Release IPR 2 (3 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHATS12060**#	IHATS22060**#	89,930	120,070	IHATS4206\$**#	IHATS5206\$**#	115,510	155,115
800	65	IHATS12080**#	IHATS22080**#	92,530	123,840	IHATS4208\$**#	IHATS5208\$**#	125,640	156,565
1000	65	IHATS12100**#	IHATS22100**#	96,780	131,550	IHATS4210\$**#	IHATS5210\$**#	130,170	162,625
1250	65	IHATS12120**#	IHATS22120**#	121,210	155,280	IHATS4212\$**#	IHATS5212\$**#	156,000	182,940
1600	65	IHATS12160**#	IHATS22160**#	125,300	160,110	IHATS4216\$**#	IHATS5216\$**#	163,215	192,875
2000	65	IHATS12200**#	IHATS22200**#	139,510	184,160	IHATS4220\$**#	IHATS5220\$**#	178,775	215,660

\$ Please refer table 1 to replace \$ at page-10
** Please refer table 2 to replace ** at page-10
Please refer table 3 to replace # at page-10

Note : Prices on request
ACB range 630A to 2000A (65kA) (IPR 3)

Industrial Switchgear
Titania Air Circuit Breaker
 (Conforms to IS/IEC:60947-2)

HAVELLS

List Prices (LP) are in Indian ₹
 as per Regular Terms & Conditions



ACB with Microprocessor Release IPR 2 (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHAFS12060**#	IHAFS22060**#	105,365	147,805	IHAFS4206\$**#	IHAFS5206\$**#	141,335	186,200
800	65	IHAFS12080**#	IHAFS22080**#	109,420	151,415	IHAFS4208\$**#	IHAFS5208\$**#	147,475	187,560
1000	65	IHAFS12100**#	IHAFS22100**#	117,040	160,105	IHAFS4210\$**#	IHAFS5210\$**#	153,900	195,035
1250	65	IHAFS12120**#	IHAFS22120**#	147,805	188,670	IHAFS4212\$**#	IHAFS5212\$**#	182,265	219,830
1600	65	IHAFS12160**#	IHAFS22160**#	151,905	203,775	IHAFS4216\$**#	IHAFS5216\$**#	190,230	233,875
2000	65	IHAFS12200**#	IHAFS22200**#	176,100	232,555	IHAFS4220\$**#	IHAFS5220\$**#	215,915	267,865

ACB Without Release (3 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHATS10060**#	IHATS20060**#	67,640	98,700	IHATS4006\$**#	IHATS5006\$**#	94,095	134,070
800	65	IHATS10080**#	IHATS20080**#	70,240	102,495	IHATS4008\$**#	IHATS5008\$**#	104,320	135,530
1000	65	IHATS10100**#	IHATS20100**#	74,485	110,500	IHATS4010\$**#	IHATS5010\$**#	108,905	141,860
1250	65	IHATS10120**#	IHATS20120**#	98,705	134,675	IHATS4012\$**#	IHATS5012\$**#	134,750	162,585
1600	65	IHATS10160**#	IHATS20160**#	102,790	139,540	IHATS4016\$**#	IHATS5016\$**#	142,035	172,615
2000	65	IHATS10200**#	IHATS20200**#	116,775	164,035	IHATS4020\$**#	IHATS5020\$**#	157,515	195,835

ACB Without Release (4 Pole)

HSN Code: 8536

Current Rating (A)	Breaking Capacity 415V (kA)	Ordering Code		LP ₹		Ordering Code		LP ₹	
		MANUAL		MANUAL		ELECTRICAL		ELECTRICAL	
		Fixed	Drawout	Fixed	Drawout	Fixed	Drawout	Fixed	Drawout
630	65	IHAFS10060**#	IHAFS20060**#	83,075	125,300	IHAFS4006\$**#	IHAFS5006\$**#	118,830	163,690
800	65	IHAFS10080**#	IHAFS20080**#	87,135	128,910	IHAFS4008\$**#	IHAFS5008\$**#	124,975	165,055
1000	65	IHAFS10100**#	IHAFS20100**#	94,750	137,810	IHAFS4010\$**#	IHAFS5010\$**#	131,405	172,740
1250	65	IHAFS10120**#	IHAFS20120**#	125,300	166,600	IHAFS4012\$**#	IHAFS5012\$**#	159,545	197,750
1600	65	IHAFS10160**#	IHAFS20160**#	129,390	181,690	IHAFS4016\$**#	IHAFS5016\$**#	167,515	211,800
2000	65	IHAFS10200**#	IHAFS20200**#	153,375	210,690	IHAFS4020\$**#	IHAFS5020\$**#	192,980	246,000

\$ Please refer table 1 to replace \$ at page-10

** Please refer table 2 to replace ** at page-10

Please refer table 3 to replace # at page-10

Note : Prices on request

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

1. Microprocessor Based OCR (IPR) HSN Code: 8538

S.No.	SAP Code	Description	LP ₹
1-1	ISACX0172	IPR-E	9,020
1-2	ISACX0214	IPR-1	13,530
1-3	ISACX0173	IPR-2	18,040
1-4	ISACX0199	IPR-3	40,580
1-5	SACX0346	Communication software for IPR-3	Av. on request

2. Spring Charging Motor HSN Code: 8538

S.No.	SAP Code	Description	LP ₹
2-1	ISACX0358	Charging Motor 110 V	22,655
2-2	ISACX0147	Charging Motor 230 V	22,655

3. Main CTs *1 HSN Code: 8504

S.No.	SAP Code	Description	LP ₹
3-1	ICELFACL018	CT 400A	1,875
3-2	ICELFACL001	CT 630A	1,875
3-3	ICELFACL002	CT 800A	1,875
3-4	ICELFACL003	CT 1000A	1,980
3-5	ICELFACL004	CT 1250A	1,980
3-6	ICELFACL005	CT 1600A	1,980
3-7	ICELFACL006	CT 2000A	2,650
3-8	ICELFACL007	CT 2500A	2,650

4. Neutral CTs *2 HSN Code: 8504

S.No.	SAP Code	Description	LP ₹
4-1	ICELFACL019	NCT 400A	1,875
4-2	ICELFACL012	NCT 630A	1,875
4-3	ICELFACL013	NCT 800A	1,875
4-4	ICELFACL014	NCT 1000A	1,980
4-5	ICELFACL015	NCT 1250A	1,980
4-6	ICELFACL016	NCT 1600A	1,980
4-7	ICELFACL017	NCT 2000A	2,650
4-8	ICELFACL021	NCT 2500A	3,065

5. Under Voltage Trip Device (UVT) HSN Code: 8538

S.No.	SAP Code	Description	LP ₹
5-1	ISACX0196	220 VAC/DC	3,135
5-2	ISACX0197	415 VAC	3,135

6. Shunt Trip / Closing Coil HSN Code: 8538

S.No.	SAP Code	Description	LP ₹
6-1	ISACX0170	24 VDC	2,315
6-2	ISACX0168	110 VAC/DC	2,315
6-3	ISACX0167	220 VAC/DC	2,315
6-4	ISACX0212	415 VAC	2,315

7. Key Lock / Key Interlock HSN Code: 8301

S.No.	SAP Code	Description	LP ₹
7-1	ISACX0301	On/Off Button cover	295
7-2	ISACX0353	Key lock (1 lock+1 key)	1,170
7-3	ISACX0181	Key interlock (2 locks+1 keys)	2,525
7-4	ISACX0210	Key interlock (3 locks+2 keys)	3,470
7-5	ISACX0332	Castle Lock Unit (1 lock+1 key)	2,785
7-6	ISSACX0437	Castle Lock Unit (2 lock+1 key)	4,905
7-7	ISSACX0436	Castle Lock Unit (3 lock+2 key)	7,810
7-8	ISACX0341	Drawout position Lock	1,430

8. Adaptor Type Terminals (additional price)
(6 nos. reqd. for 3 pole & 8 nos. for 4 pole ACB) HSN Code: 8538

S.No.	SAP Code	Description	LP ₹
8-1	SACP0174	630/800A	1,430
8-2	SACP0175	1000/1250A	1,855
8-3	SACP0179	1600A	2,125
8-4	SACP0176	2000A	2,395

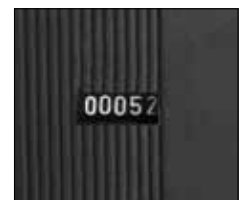
9. Other Accessories HSN Code: 8538

S.No.	SAP Code	Description	LP ₹
9-1	ISACX0208	Door Interlock	1,855
9-2	ISACX0303	Mal Insertation prevention device	440
9-3	ISACX0028	Close open cycle counter	1,640
9-4	ISACX0340	Mechanical Interlock through wire	Av. on request

9. Other Accessories HSN Code: 8536

S.No.	SAP Code	Description	LP ₹
9-5	ISACX0207	Spring charge indication switch	695
9-6	ISACX0349	Trip indication Switch	505
9-7	ISACX0139	Aux. switch (5 c/o additional)	1,175
9-8	ISACX0182	Position indication switch	1,770
9-9	ISACX0302	Field test unit	1,770

*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 IS/IEC:60947-2)

HAVELLS

List Prices (LP) 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.

Features Available in Different Models of Over Current Release (IPR)



Functions	IPRE+	IPR1+	IPR2	IPR3
Overload Function (LTD)	●	●	●	●
Short Circuit Function (STD)		●	●	●
Instantaneous Function for short circuit protection (INST)	●	●	●	●
Ground fault Function (GFT)		●	●	●
Function blocking feature for all the above functions	●	●	●	●
Pre trip alarm function			●	●
Measurement function				
• 3 phase current			●	●
• 3 phase voltage				●
• Tripping time				●
• KVA				●
• KWH				●
• Power factor				●
• Max. demand (KVA & KWH)				●
• Ambient temperature				●
• Breaker terminal temperature				●
Under voltage / Overvoltage alarm				●
Fault History			●	●
Self Monitoring			●	●
Temperature sensing				●
Breaker fault			●	●
Potential free contacts			●	●
LED Indications	●	●	●	●
Operation counter			●	●
Function Check	●	●	●	●
LCD display			●	●
Communication Port RS 485				●

● Available

Titania

Air Circuit Breaker

Order Form

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

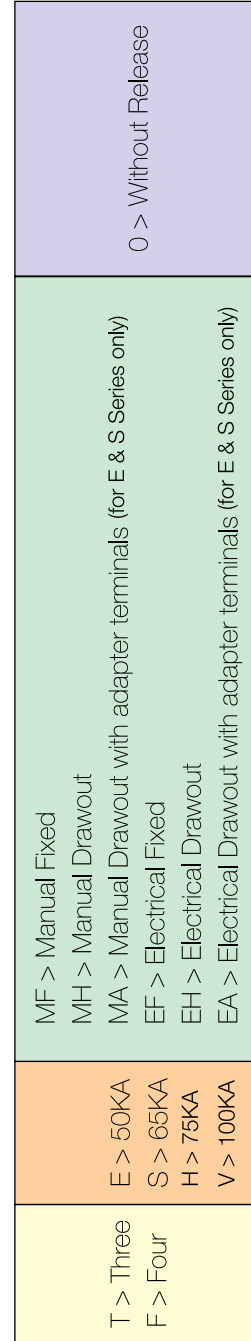
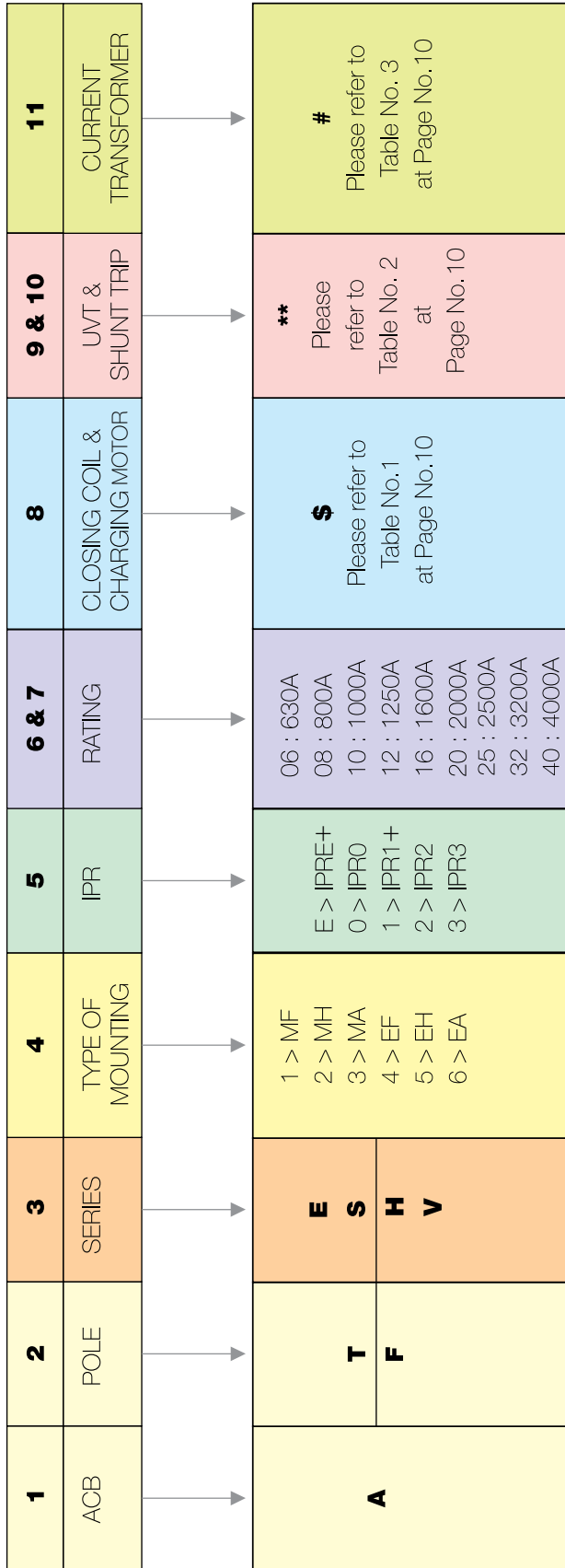
CUSTOMER/ DEALER NAME		ORDER NO./DATE		END USER NAME		
Rating of ACB		630A <input type="checkbox"/>	1000A <input type="checkbox"/>	1600A <input type="checkbox"/>	2500A <input type="checkbox"/>	Qty.
		800A <input type="checkbox"/>	1250A <input type="checkbox"/>	2000A <input type="checkbox"/>	3200A <input type="checkbox"/>	
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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Without Release	IPR E +	IPR 1 +	IPR 2	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"/>

OFV-6

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





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SH Frame: Fixed Thermal & Fixed Magnetic setting

Ics = 50% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹
10	15	SH	IHLSHAAT0015	1,660
	20		IHLSHAAT0020	1,660
	32		IHLSHAAT0032	1,660
	40		IHLSHAAT0040	1,660



ML1 Frame: Fixed Thermal & Fixed Magnetic setting

Ics = 50% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹
10	63	ML 1	IHLM1AAT0063	1,590
	80		IHLM1AAT0080#	1,590
	100		IHLM1AAT0100#	1,675
	125		IHLM1AAT0125#	2,315



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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole wSN Cat. No.	LP ₹
10	25	GS	IHLGSS0025	825	IHLGST0025	1,745	IHLGSF0025	2,290
	32		IHLGSS0032	825	IHLGST0032	1,745	IHLGSF0032	2,290
	40		IHLGSS0040	825	IHLGST0040	1,745	IHLGSF0040	2,290
	50		IHLGSS0050	825	IHLGST0050	1,745	IHLGSF0050	2,290
	63		IHLGSS0063	825	IHLGST0063	1,825	IHLGSF0063	2,410
	80		IHLGSS0080 #	825	IHLGST0080 #	1,860	IHLGSF0080 #	2,805
	100		IHLGSS0100 #	825	IHLGST0100 #	1,860	IHLGSF0100 #	2,805
	125		IHLGSS0125 #	1,040	IHLGST0125 #	3,025	IHLGSF0125 #	3,585
	150		IHLGSS0150 #	1,105	IHLGST0150 #	3,615	IHLGSF0150 #	4,790
	160		IHLGSS0160 #	1,120	IHLGST0160 #	3,615	IHLGSF0160 #	4,790



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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole wSN Cat. No.	LP ₹
16	25	GN	IHLGNS0025	1,090	IHLGNT0025	3,070	IHLGNF0025	3,635
	32		IHLGNS0032	1,090	IHLGNT0032	3,070	IHLGNF0032	3,635
	40		IHLGNS0040	1,090	IHLGNT0040	3,070	IHLGNF0040	3,635
	50		IHLGNS0050	1,090	IHLGNT0050	3,070	IHLGNF0050	3,635
	63		IHLGNS0063	1,090	IHLGNT0063	3,070	IHLGNF0063	3,635
	80		IHLGNS0080 #	1,090	IHLGNT0080 #	3,230	IHLGNF0080 #	3,925
	100		IHLGNS0100 #	1,090	IHLGNT0100 #	3,230	IHLGNF0100 #	3,925
	125		IHLGNS0125 #	1,130	IHLGNT0125 #	3,530	IHLGNF0125 #	4,270
	150		IHLGNS0150 #	1,130	IHLGNT0150 #	4,025	IHLGNF0150 #	4,845
	160		IHLGNS0160 #	1,130	IHLGNT0160 #	4,025	IHLGNF0160 #	4,845



* In ML1 63A, 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 ML1-Frame from (80A to 125A)

In G-Frame from (80A to 160A)

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



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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
25	25	GH	IHLGHDAS0025	1,375	IHLGHT0025	3,575	IHLGHF0025	4,500
	32		IHLGHDAS0032	1,375	IHLGHT0032	3,575	IHLGHF0032	4,500
	40		IHLGHDAS0040	1,375	IHLGHT0040	3,575	IHLGHF0040	4,500
	50		IHLGHDAS0050	1,375	IHLGHT0050	3,575	IHLGHF0050	4,500
	63		IHLGHDAS0063	1,375	IHLGHT0063	3,575	IHLGHF0063	4,500
	80		IHLGHDAS0080 #	1,375	IHLGHT0080 #	3,990	IHLGHF0080 #	4,885
	100		IHLGHDAS0100 #	1,375	IHLGHT0100 #	3,990	IHLGHF0100 #	4,885
	125		IHLGHDAS0125 #	1,450	IHLGHT0125 #	4,265	IHLGHF0125 #	5,605
	150		IHLGHDAS0150 #	1,640	IHLGHT0150 #	6,280	IHLGHF0150 #	7,330
160	IHLGHDAS0160 #	1,640	IHLGHT0160 #	6,280	IHLGHF0160 #	7,330		

F Frame: Fixed Thermal & Fixed Magnetic setting

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
35	25	FN	IHLFNT0025	5,835	IHLFNF0025	6,630
	32		IHLFNT0032	5,835	IHLFNF0032	6,630
	40		IHLFNT0040	5,835	IHLFNF0040	6,630
	50		IHLFNT0050	5,835	IHLFNF0050	6,630
	63		IHLFNT0063	5,835	IHLFNF0063	6,630
	80		IHLFNT0080 #	5,835	IHLFNF0080 #	6,835
	100		IHLFNT0100 #	5,835	IHLFNF0100 #	6,835
	125		IHLFNT0125 #	7,280	IHLFNF0125 #	8,740
	160		IHLFNT0160 #	9,360	IHLFNF0160 #	11,700
	200		IHLFNT0200 #	11,035	IHLFNF0200 #	14,785
250	IHLFNT0250 #	13,845	IHLFNF0250 #	18,060		



F Frame: Fixed Thermal & Fixed Magnetic setting

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
50	25	FH	IHLFHT0025	6,560	IHLFHF0025	7,440
	32		IHLFHT0032	6,560	IHLFHF0032	7,440
	40		IHLFHT0040	6,560	IHLFHF0040	7,440
	50		IHLFHT0050	6,560	IHLFHF0050	7,440
	63		IHLFHT0063	6,560	IHLFHF0063	7,440
	80		IHLFHT0080 #	7,005	IHLFHF0080 #	8,315
	100		IHLFHT0100 #	7,005	IHLFHF0100 #	8,315
	125		IHLFHT0125 #	8,360	IHLFHF0125 #	10,710
	160		IHLFHT0160 #	10,005	IHLFHF0160 #	12,505
	200		IHLFHT0200 #	11,375	IHLFHF0200 #	15,355
	250		IHLFHT0250 #	14,040	IHLFHF0250 #	18,730



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

* In G & F frame 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).



E1 Frame: Adjustable Thermal* & Fixed Magnetic setting

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No. Icu at 240V (kA)	LP ₹	Double Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole Cat. No.	LP ₹
10	40	E1	IHLE1AAS0040	1,485	IHLE1AAD0040	2,175	IHLE1ABT0040	2,825	IHLE1ABF0040	3,300
	50		IHLE1AAS0050	1,485	IHLE1AAD0050	2,175	IHLE1ABT0050	2,825	IHLE1ABF0050	3,300
	63		IHLE1AAS0063	1,485	IHLE1AAD0063	2,175	IHLE1ABT0063	2,825	IHLE1ABF0063	3,300
	80		IHLE1AAS0080#	1,545	IHLE1AAD0080#	2,260	IHLE1ABT0080#	2,935	IHLE1ABF0080#	3,525
	100		IHLE1AAS0100#	1,545	IHLE1AAD0100#	2,260	IHLE1ABT0100#	2,935	IHLE1ABF0100#	3,525
	125		IHLE1AAS0125#	2,040	IHLE1AAD0125#	2,985	IHLE1ABT0125#	3,885	IHLE1ABF0125#	4,630
	160		IHLE1AAS0160#	2,330	IHLE1AAD0160#	3,410	IHLE1ABT0160#	4,430	IHLE1ABF0160#	5,345

*Adjustable thermal (80% -100%) - In TP & FP only



A Frame: Adjustable Thermal* & Fixed Magnetic setting

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
16	160	AS	IHLAST0160 #	4,585	IHLASF0160 #	6,590
	200		IHLAST0200 #	5,275	IHLASF0200 #	7,205

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
25	25	AS	IHLASS0025	1,775	IHLAST0025	3,695	IHLASF0025	5,115
	32		IHLASS0032	1,775	IHLAST0032	3,695	IHLASF0032	5,115
	40		IHLASS0040	1,775	IHLAST0040	3,695	IHLASF0040	5,115
	50		IHLASS0050	1,775	IHLAST0050	3,695	IHLASF0050	5,115
	63		IHLASS0063	1,775	IHLAST0063	3,695	IHLASF0063	5,115
	80		IHLASS0080 #	1,775	IHLAST0080 #	3,845	IHLASF0080 #	5,150
	100		IHLASS0100 #	1,775	IHLAST0100 #	3,845	IHLASF0100 #	5,150
	125	IHLASS0125 #	2,820	IHLAST0125 #	5,295	IHLASF0125 #	6,180	
	160	AN	IHLANS0160 #	3,095	IHLANT0160 #	6,015	IHLANF0160 #	7,465
	200		IHLANS0200 #	3,535	IHLANT0200 #	7,665	IHLANF0200 #	9,470
	250		IHLANS0250 #	3,970	IHLANT0250 #	9,060	IHLANF0250 #	11,530

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
35	25	AN	IHLANT0025	4,715	IHLANF0025	5,760
	32		IHLANT0032	4,715	IHLANF0032	5,760
	40		IHLANT0040	4,715	IHLANF0040	5,760
	50		IHLANT0050	4,715	IHLANF0050	5,760
	63		IHLANT0063	4,715	IHLANF0063	5,760
	80		IHLANT0080 #	5,190	IHLANF0080 #	6,065
	100		IHLANT0100 #	5,190	IHLANF0100 #	6,065
	125		IHLANT0125 #	5,370	IHLANF0125 #	6,325

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

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

In E1 & A Frame 40A / 50A / 63A, 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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
16	160	AS	IHLASBCT0160 #	4,905	IHLASBCF0160 #	6,915
	200		IHLASBCT0200 #	5,600	IHLASBCF0200 #	7,535

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
25	80	AS	IHLASDCT0080 #	4,120	IHLASDCF0080 #	5,430
	100		IHLASDCT0100 #	4,120	IHLASDCF0100 #	5,430
	125		IHLASDCT0125 #	5,610	IHLASDCF0125 #	6,500
	160	AN	IHLANDCT0160 #	6,330	IHLANDCF0160 #	7,790
	200		IHLANDCT0200 #	7,975	IHLANDCF0200 #	9,810
	250		IHLANDCT0250 #	9,385	IHLANDCF0250 #	11,870

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
35	80	AN	IHLANECT0080 #	5,485	IHLANECF0080 #	6,335
	100		IHLANECT0100 #	5,485	IHLANECF0100 #	6,335
	125		IHLANECT0125 #	5,690	IHLANECF0125 #	6,645

Note : # MCCBs are with extended terminals.



HID Series: Adjustable Thermal* & Fixed Magnetic setting

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No. Icu at 240V (kA)	LP ₹	Double Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole Cat. No.	LP ₹
27	40	HID1	IHA13DBS0040	2,430	IHA13DBD0040	3,555	IHA13DBT0040	4,620	IHA13DBF0040	5,390
	50		IHA13DBS0050	2,430	IHA13DBD0050	3,555	IHA13DBT0050	4,620	IHA13DBF0050	5,390
	63		IHA13DBS0063	2,430	IHA13DBD0063	3,555	IHA13DBT0063	4,620	IHA13DBF0063	5,390
	80		IHA13DBS0080#	2,600	IHA13DBD0080#	3,805	IHA13DBT0080#	4,950	IHA13DBF0080#	5,940
	100		IHA13DBS0100#	2,600	IHA13DBD0100#	3,805	IHA13DBT0100#	4,950	IHA13DBF0100#	5,940
	125		IHA13DBS0125#	3,295	IHA13DBD0125#	4,825	IHA13DBT0125#	6,270	IHA13DBF0125#	7,480
	160		IHA13DBS0160#	4,075	IHA13DBD0160#	5,960	IHA13DBT0160#	7,745	IHA13DBF0160#	9,350

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Single Pole Cat. No. Icu at 240V (kA)	LP ₹	Double Pole Cat. No.	LP ₹	Three Pole Cat. No.	LP ₹	Four Pole Cat. No.	LP ₹
36	40	HID1	IHA13EBS0040	3,010	IHA13EBD0040	4,400	IHA13EBT0040	5,720	IHA13EBF0040	6,820
	50		IHA13EBS0050	3,010	IHA13EBD0050	4,400	IHA13EBT0050	5,720	IHA13EBF0050	6,820
	63		IHA13EBS0063	3,010	IHA13EBD0063	4,400	IHA13EBT0063	5,720	IHA13EBF0063	6,820
	80		IHA13EBS0080#	3,360	IHA13EBD0080#	4,905	IHA13EBT0080#	6,380	IHA13EBF0080#	7,700
	100		IHA13EBS0100#	3,360	IHA13EBD0100#	4,905	IHA13EBT0100#	6,380	IHA13EBF0100#	7,700
	125		IHA13EBS0125#	3,530	IHA13EBD0125#	5,165	IHA13EBT0125#	6,710	IHA13EBF0125#	7,920
	160		IHA13EBS0160#	4,515	IHA13EBD0160#	6,600	IHA13EBT0160#	8,580	IHA13EBF0160#	9,900

Note : *Adjustable thermal (80% -100%) - In TP & FP only

In HID1 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).



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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
36	200	LS	IHLLSEBT0200 #	14,830	IHLLSEBF0200 #	17,705
	250		IHLLSEBT0250 #	15,930	IHLLSEBF0250 #	19,030
	320		IHLLSEBT0320 #	17,515	IHLLSEBF0320 #	21,515
	400		IHLLSEBT0400 #	17,515	IHLLSEBF0400 #	21,515
	500		IHLLSEBT0500 #	19,135	IHLLSEBF0500 #	23,835
	630		IHLLSEBT0630 #	20,965	IHLLSEBF0630 #	25,965

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
50	200	LN	IHLLNFBT0200 #	15,630	IHLLNFBF0200 #	18,505
	250		IHLLNFBT0250 #	16,930	IHLLNFBF0250 #	20,030
	320		IHLLNFBT0320 #	19,015	IHLLNFBF0320 #	23,015
	400		IHLLNFBT0400 #	19,015	IHLLNFBF0400 #	23,015
	500		IHLLNFBT0500 #	20,635	IHLLNFBF0500 #	25,335
	630		IHLLNFBT0630 #	23,465	IHLLNFBF0630 #	28,465

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



L Frame: Adjustable Thermal & Adjustable Magnetic setting*

Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
36	200	LS	IHLLSECT0200 #	15,410	IHLLSECF0200 #	18,285
	250		IHLLSECT0250 #	16,510	IHLLSECF0250 #	19,610
	320		IHLLSECT0320 #	18,115	IHLLSECF0320 #	22,115
	400		IHLLSECT0400 #	18,115	IHLLSECF0400 #	22,115
	500		IHLLSECT0500 #	19,755	IHLLSECF0500 #	24,455
	630		IHLLSECT0630 #	21,585	IHLLSECF0630 #	26,585

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
50	200	LN	IHLLNFCT0200 #	16,210	IHLLNF0200 #	19,085
	250		IHLLNFCT0250 #	17,510	IHLLNF0250 #	20,610
	320		IHLLNFCT0320 #	19,615	IHLLNF0320 #	23,615
	400		IHLLNFCT0400 #	19,615	IHLLNF0400 #	23,615
	500		IHLLNFCT0500 #	21,225	IHLLNF0500 #	25,955
	630		IHLLNFCT0630 #	24,085	IHLLNF0630 #	29,085

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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
35	160	CN	IHLCNT0160 #	20,055	IHLCNF0160 #	26,390
	200		IHLCNT0200 #	20,055	IHLCNF0200 #	26,390
	250		IHLCNT0250 #	20,055	IHLCNF0250 #	26,390
	315		IHLCNT0315 #	20,780	IHLCNF0315 #	27,340
	400		IHLCNT0400 #	20,780	IHLCNF0400 #	27,340
	500		IHLCNT0500 #	24,575	IHLCNF0500 #	30,155
	630		IHLCNT0630 #	25,390	IHLCNF0630 #	31,150
	800		IHLCNT0800 #	29,565	IHLCNF0800 #	36,620

Ics = 50% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
50	160	CH	IHLCHT0160 #	22,060	IHLCHF0160 #	29,225
	200		IHLCHT0200 #	22,060	IHLCHF0200 #	29,225
	250		IHLCHT0250 #	22,060	IHLCHF0250 #	29,225
	315		IHLCHT0315 #	22,060	IHLCHF0315 #	29,225
	400		IHLCHT0400 #	22,060	IHLCHF0400 #	29,225
	500		IHLCHT0500 #	26,980	IHLCHF0500 #	33,530
	630		IHLCHT0630 #	26,980	IHLCHF0630 #	34,080
	800		IHLCHT0800 #	32,390	IHLCHF0800 #	38,875

D Frame: Adjustable Thermal & Adjustable Magnetic setting*

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹
50	1000	DN	IHLDNT1000 #	73,695
	1250		IHLDNT1250 #	84,485
	1600		IHLDNT1600 #	91,065



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).

G Frame (DC) : Fixed Thermal & Fixed Magnetic setting

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 250VDC (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹
5	25	GN	IHMCGNT0025	3,225
	32		IHMCGNT0032	3,225
	40		IHMCGNT0040	3,225
	50		IHMCGNT0050	3,225
	63		IHMCGNT0063	3,225
	80		IHMCGNT0080 #	3,225
	100		IHMCGNT0100 #	3,225
	125		IHMCGNT0125 #	4,095
	160		IHMCGNT0160 #	5,030



A Frame (DC) : Adjustable Thermal* & Fixed Magnetic setting

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 250VDC (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹
10	25	AN	IHMCANT0025	4,625
	32		IHMCANT0032	4,625
	40		IHMCAABT0040	4,625
	50		IHMCAABT0050	4,625
	63		IHMCANT0063	4,625
	80		IHMCANT0080 #	4,805
	100		IHMCAABT0100 #	4,805
	125		IHMCAABT0125 #	6,620
	160		IHMCANT0160 #	8,650
	200		IHMCANT0200 #	9,380
	250		IHMCANT0250 #	10,580



C Frame (DC) : Adjustable Thermal & Adjustable Magnetic setting*

Ics = 50% of Icu

HSN Code: 8536

Breaking Capacity Icu at 250VDC (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹
20	160	CH	IHMCCHT0160 #	23,435
	200		IHMCCHT0200 #	23,435
	250		IHMCCHT0250 #	23,435
	315		IHMCCHT0315 #	23,435
	400		IHMCCHT0400 #	23,435
	500		IHMCCHT0500 #	27,795
	630		IHMCCHT0630 #	27,795
	800		IHMCCHT0800 #	34,225



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

HSN Code: 8538

Sl.No.	Description	Cat. No.	LP ₹
1.	'ML' Frame TP	IHEMTP	815
2.	'G' Frame TP	IHEGTP	1,430
3.	'G' Frame FP	IHEGFP	1,430
4.	'A' Frame TP	IHEATP	1,545
5.	'A' Frame FP	IHEAFP	1,545
6.	'F' Frame TP	IHEFTP	1,650
7.	'F' Frame FP	IHEFFP	1,650
8.	'C' Frame TP / FP (400A)	IHECTP	6,895
9.	'C' Frame TP / FP (800A)	IHECTS	7,280
10.	'L' Frame TP	IHELTP	5,920
11.	'L' Frame FP	IHELFP	6,410
12.	HID Frame TP	ISSBOU1117	1,545
13.	HID Frame FP	ISSBOU1118	1,545



Accessories for **Loadline** Moulded Case Circuit Breakers

HSN Code: 8538

Description	'G' Frame		'A' Frame		'F' Frame		'C' Frame		'D' Frame		'L' Frame	
	Cat. No.	LP ₹	Cat. No.	LP ₹	Cat. No.	LP ₹	Cat. No.	LP ₹	Cat. No.	LP ₹	Cat. No.	LP ₹
Shunt Trip												
100-110Vac	IHLGSI10	940	IHLASI10	965	IHLSTF110	1,125	IHLCS110	1,370	IHLSTD110	1,465	IHLLS110	1,335
220-240Vac	IHLGSI240	940	IHLAS240	965	IHLSTF240	1,125	IHLCS240	1,370	IHLSTD240	1,465	IHLLS240	1,335
380-415Vac	IHLGSI415	940	IHLAS415	965	IHLSTF415	1,125	IHLCS415	1,370	IHLSTD415	1,465	IHLLS415	1,335
Under Voltage Release												
110-120Vac	IHLGU110	1,150	IHLAU110	1,275	IHLVURF110	1,275	IHLCU110	1,605	IHLUVRD110	1,765	IHLLU110	1,605
220-240Vac	IHLGU240	1,150	IHLAU240	1,275	IHLVURF240	1,275	IHLCU240	1,605	IHLUVRD240	1,765	IHLLU240	1,605
380-440Vac	IHLGU440	1,150	IHLAU440	1,275	IHLVURF440	1,275	IHLCU440	1,605	IHLUVRD440	1,765	IHLLU415	1,605
Auxiliary Contact (250Vac/250Vdc) (450Vac/250Vdc)												
1-Changeover	IHLASG1CO	635	IHLAA1CO	655	IHLASF1CO	655	IHLASC1CO	910	IHLASD1CO	1,225	IHLA1CO	760
2-Changeover	IHLASG2CO	720	IHLAA2CO	905	IHLASF2CO	905	IHLASC2CO	1,140	IHLASD2CO	1,490	IHLA2CO	950
Rotary Handle												
Direct mounting	IHLGD000	940	IHLAD000	1,180	IHLRRHF30	1,260	IHLRRHC30	2,190	IHLRRHD30	3,920	IHLRN30	2,180
Door Mounting	IHLGRN30	940	IHLARN30	1,180	IHLRRHF30	1,260	IHLRRHC30	2,190	IHLRRHD30	3,920	IHLRN30	2,180
Trip Alarm Contact (Factory Fitted)	IHLALG1CO	540	IHLALA1CO	615	IHLALF1CO	615	IHLALC1CO*	830	—	—	IHLB000	725
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 Castelli Lock available in C and D frame
 \$ - Back Studs (Price on Request)
 * - Factory Fitted only
 # - Replace '#' with rating
 * E1 & HID Series accessories prices available on request

Earth Fault Relay for MCCBs HSN Code: 8538

Sl. No.	MCCBs Current Range (Amps)	Cat. No.**	LP ₹
1	25-100	IHEF1100	4,785
2	125-200	IHEF2200	5,435
3	250-400	IHEF3400	6,335
4	500-800	IHEF4800	7,900



- 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.

Loadline Digital Moulded Case Circuit Breakers (AC 415V) (with adjustable microprocessor release) (Conforms to IS/IEC:60947-2)



FE Frame : Ics = 100% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
35	25	FEN	IHLFENT0025	8,180	IHLFENF0025	10,590
	32		IHLFENT0032	8,180	IHLFENF0032	10,590
	40		IHLFENT0040	8,180	IHLFENF0040	10,590
	50		IHLFENT0050	8,180	IHLFENF0050	10,590
	63		IHLFENT0063	8,180	IHLFENF0063	10,590
	80		IHLFENT0080 #	8,180	IHLFENF0080 #	10,590
	100		IHLFENT0100 #	8,180	IHLFENF0100 #	10,590
	125		IHLFENT0125 #	10,100	IHLFENF0125 #	12,905
	160		IHLFENT0160 #	10,800	IHLFENF0160 #	13,645
	200		IHLFENT0200 #	13,705	IHLFENF0200 #	15,925
	250		IHLFENT0250 #	15,905	IHLFENF0250 #	18,720

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
50	25	FEH	IHLFEHT0025	8,665	IHLFEHF0025	11,075
	32		IHLFEHT0032	8,665	IHLFEHF0032	11,075
	40		IHLFEHT0040	8,665	IHLFEHF0040	11,075
	50		IHLFEHT0050	8,665	IHLFEHF0050	11,075
	63		IHLFEHT0063	8,665	IHLFEHF0063	11,075
	80		IHLFEHT0080 #	8,665	IHLFEHF0080 #	11,075
	100		IHLFEHT0100 #	8,665	IHLFEHF0100 #	11,075
	125		IHLFEHT0125 #	10,655	IHLFEHF0125 #	13,460
	160		IHLFEHT0160 #	11,945	IHLFEHF0160 #	14,785
	200		IHLFEHT0200 #	14,865	IHLFEHF0200 #	17,055
	250		IHLFEHT0250 #	17,125	IHLFEHF0250 #	19,895

*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

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
36	250	LES	IHLLSEET0250 #	21,270	IHLLSEEF0250 #	25,745
	320		IHLLSEET0320 #	21,270	IHLLSEEF0320 #	25,745
	400		IHLLSEET0400 #	21,270	IHLLSEEF0400 #	25,745
	500		IHLLSEET0500 #	22,780	IHLLSEEF0500 #	30,410
	630		IHLLSEET0630 #	22,780	IHLLSEEF0630 #	30,410

Ics = 75% of Icu

HSN Code: 8536

Breaking Capacity Icu at 415V (kA)	Current Rating (A)	Frame	Three Pole Cat. No.	LP ₹	Four Pole (wSN) Cat. No.	LP ₹
50	250	LEN	IHLLNFET0250 #	23,645	IHLLNFEF0250 #	29,615
	320		IHLLNFET0320 #	23,645	IHLLNFEF0320 #	29,615
	400		IHLLNFET0400 #	23,645	IHLLNFEF0400 #	29,615
	500		IHLLNFET0500 #	25,895	IHLLNFEF0500 #	33,960
	630		IHLLNFET0630 #	25,895	IHLLNFEF0630 #	33,960

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

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

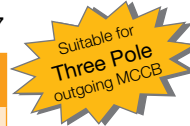
All the L Frame MCCBs are also available without extended terminals/spreaderlinks (Price on request)

Single door



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

HSN Code: 8537



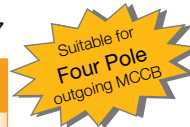
Incomer**	Outgoing* (No. of Ways)	Single Door Cat. No.	LP ₹	Double Door Cat. No.	LP ₹
250A "AA" Frame MCCB	2	IHVG025002	31,875	IHVG02500200	34,825
	4	IHVG025004	40,045	IHVG02500400	42,950
	6	IHVG025006	45,825	IHVG02500600	48,760
	8	IHVG025008	49,630	IHVG02500800	52,555
	12	IHVG025012	61,280	IHVG02501200	64,165
	16	IHVG025016	72,100	IHVG02501600	75,030
400A "LS" Frame MCCB	2	IHLG040002	37,240	IHLG04000200	40,690
	4	IHLG040004	44,470	IHLG04000400	47,695
	6	IHLG040006	47,335	IHLG04000600	50,360
	8	IHLG040008	50,565	IHLG04000800	53,550
	12	IHLG040012	65,130	IHLG04001200	68,190
	16	IHLG040016	77,350	IHLG04001600	80,495
400A "CN" Frame MCCB	2	IHVG040002	39,775	IHVG04000200	42,720
	4	IHVG040004	46,790	IHVG04000400	48,685
	6	IHVG040006	54,345	IHVG04000600	57,300
	8	IHVG040008	57,460	IHVG04000800	60,420
	12	IHVG040012	70,495	IHVG04001200	73,765
	16	IHVG040016	80,515	IHVG04001600	83,495

* 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

HSN Code: 8537



Incomer**	Outgoing* (No. of Ways)	Single Door Cat. No.	LP ₹	Double Door Cat. No.	LP ₹
250A "AA" Frame MCCB	2	IHVGF25002	34,305	IHVGF2500200	37,200
	4	IHVGF25004	42,670	IHVGF2500400	45,590
	6	IHVGF25006	50,245	IHVGF2500600	53,130
	8	IHVGF25008	54,225	IHVGF2500800	57,145
	12	IHVGF25012	78,665	IHVGF2501200	81,575
400A "LS" Frame MCCB	2	IHLGF40002	40,080	IHLGF4000200	43,465
	4	IHLGF40004	47,385	IHLGF4000400	50,620
	6	IHLGF40006	51,895	IHLGF4000600	54,875
	8	IHLGF40008	55,250	IHLGF4000800	58,230
	12	IHLGF40012	83,605	IHLGF4001200	86,695
400A "CN" Frame MCCB	2	IHVGF40002	43,815	IHVGF4000200	46,780
	4	IHVGF40004	51,950	IHVGF4000400	54,930
	6	IHVGF40006	59,605	IHVGF4000600	62,570
	8	IHVGF40008	63,370	IHVGF4000800	66,335
	12	IHVGF40012	88,480	IHVGF4001200	91,460

* 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

HSN Code: 8537

Sl. No.	Description*	Single Door Cat. No.	LP ₹	Double Door Cat. No.	LP ₹
1	Cable Alley I/C 250A,O/G 3P GF 2/4Way	ISSBOU0674	12,480	ISSBOU0690	13,380
2	Cable Alley I/C 250A,O/G 3P GF 6WAY & 4P 2/4Way	ISSBOU0675	16,760	ISSBOU0691	17,665
3	Cable Alley I/C 250A,O/G 3P GF 8WAY & 4P 6Way	ISSBOU0676	16,985	ISSBOU0692	18,525
4	Cable Alley I/C 250A,O/G 3P GF 12Way	ISSBOU0677	19,270	ISSBOU0693	19,805
5	Cable Alley I/C 250A,O/G 4P GF 8Way	ISSBOU0678	19,270	ISSBOU0694	19,805
6	Cable Alley I/C 250A,O/G 3P GF 16Way & 4P 12Way	ISSBOU0679	22,700	ISSBOU0696	23,555
7	Cable Alley I/C 400A,O/G 3P GF 2/4Way	ISSBOU0680	14,780	ISSBOU0697	15,310
8	Cable Alley I/C 400A,O/G 3P GF 6WAY & 4P 2/4Way	ISSBOU0681	14,780	ISSBOU0698	15,310
9	Cable Alley I/C 400A/630A/800A, O/G 3P GF 8Way, 4P 6Way & A/F 6Way	ISSBOU0682	19,865	ISSBOU0699	20,830
10	Cable Alley I/C 400A,O/G 3P GF 12Way	ISSBOU0683	22,920	ISSBOU0700	23,555
11	Cable Alley I/C 400A/630A/800A, O/G 4P GF 8Way & TP A/F 8Way	ISSBOU0684	24,090	ISSBOU0701	24,630
12	Cable Alley I/C 400A/630A/800A, O/G 4P GF 12Way, TP GF 16Way & TP A/F 12Way	ISSBOU0685	25,165	ISSBOU0702	25,700

Double door



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

HSN Code: 8537

Incomer**	Outgoing* (No. of Ways)	Single Door Cat. No.	LP ₹	Double Door Cat. No.	LP ₹
400A "LS" Frame MCCB	6	IHLA040006	63,905	IHLA04000600	66,230
	8	IHLA040008	68,265	IHLA04000800	70,655
	12	IHLA040012	87,925	IHLA04001200	90,205
400A "CN/CH" Frame MCCB	6	IHVA040006	81,145	IHVA04000600	84,105
	8	IHVA040008	84,530	IHVA04000800	87,490
	12	IHVA040012	113,905	IHVA04001200	116,865
630A "CN/CH" Frame MCCB	6	IHVA063006	86,110	IHVA06300600	89,010
	8	IHVA063008	89,200	IHVA06300800	92,105
	12	IHVA063012	117,605	IHVA06301200	120,510
800A "CN/CH" Frame MCCB	6	IHVA080006	86,565	IHVA08000600	89,470
	8	IHVA080008	89,920	IHVA08000800	92,820
	12	IHVA080012	118,545	IHVA08001200	121,445

* 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

HSN Code: 8537

S. No.	Description	Single Door Cat. No.	LP ₹	Double Door Cat. No.	LP ₹
1	Prewire Meter Module - Analog	ISSBOU0689	14,450	ISSBOU0706	14,995
2	Meter Module - Digital	ISSBOU0711	17,775	ISSBOU0707	18,740

Bare Meter Module / MCB Module / Add on Module

HSN Code: 8537

S. No.	Description	Single Door Cat. No.	LP ₹	Double Door Cat. No.	LP ₹
1	Meter Module - Analog Provision for Ammeter, Voltmeter - Analog with selector switch	ISSBOU0686	5,565	ISSBOU0703	6,425
2	MCB Module	ISSBOU0687	5,565	ISSBOU0704	6,425
3	Add on Module	ISSBOU0688	5,565	ISSBOU0705	6,425

* 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**

HSN Code: 8537

S. No.	Description	Cat. No.	LP ₹
1	250A Incoming change Over switch-F1	ISSBOU0708	10,430
2	400A & 630A Incoming change Over switch - F2	ISSBOU0709	15,320
3	800A Incoming change Over switch - F3	ISSBOU0710	17,925

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





On-Load Changeover Switch I-O-II

HSN Code: 8536

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	LP ₹	SS Enclosure Cat. Code	LP ₹
00	040	IHCNFO0040	4,035	IHCNFE0040	5,655
00	063	IHCNFO0063	4,240	IHCNFE0063	5,805
00	080	IHCNFO0080	5,450	IHCNFE0080	7,070
00	100	IHCNFO0100	5,605	IHCNFE0100	7,450

Euroload Four Pole Changeover with Advance Neutral

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

On-Load Changeover Switch I-O-II

HSN Code: 8536

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	LP ₹	SS Enclosure Cat. Code	LP ₹
0	125	IHCNFO0125	8,415	IHCNFE0125	11,225
0	160	IHCNFO0160	9,185	IHCNFE0160	12,010
0	200	IHCNFO0200	11,020	IHCNFE0200	13,840
1	250	IHCNFO0250	16,090	IHCNFE0250	19,690
1	320	IHCNFO0320	17,000	IHCNFE0320	20,595
2	400	IHCNFO0400	24,810	IHCNFE0400	30,020
2	630	IHCNFO0630	29,190	IHCNFE0630	34,405
3	800	IHCNFO0800	43,695	IHCNFE0800	51,445
4	1000	IHCNFO1000	74,430	IHCNFE1000	95,580
4	1250	IHCNFO1250	99,770	IHCNFE1250	120,920
4	1600	IHCNFO1600	118,825	IHCNFE1600	162,380
5	2000	IHCNFO2000	182,325	IHCNFE2000	217,950
5	2500	IHCNFO2500	235,045	IHCNFE2500	270,670
5	3150	IHCNFO3150	331,065	IHCNFE3150	366,685

Note :

* 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

HSN Code: 8536

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	LP ₹
00	063	IHCBFO0063	7,985
00	100	IHCBFO0100	9,285



Euroload Four Pole By Pass Switch

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

HSN Code: 8536

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	LP ₹
0	125	IHCBFO0125	11,885
0	160	IHCBFO0160	14,430
0	200	IHCBFO0200	15,395
1	250	IHCBFO0250	21,155
1	320	IHCBFO0320	22,645
2	400	IHCBFO0400	31,095
2	630	IHCBFO0630	40,010
3	800	IHCBFO0800	58,225
3	1000	IHCBFO1000	89,215
3	1600	IHCBFO1600	152,650

Accessories:

HSN Code: 8538

Aux. Contact	Cat. No.	LP ₹
1 NO. 1 NC.	IHCNFAC1CO	300
2 NO. 2 NC.	IHCNFAC2CO	405

Industrial Switchgear

Instaline Automatic Transfer Switch

(Conforms to IS/IEC:60947-6-1)

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List Prices (LP) are in Indian ₹
as per Regular Terms & Conditions



Three / Four Pole, AC-31A, 50 Hz, 415V
Automatic/Manual with
complete protection

HSN Code: 8537

Rating AMP.	Cat. No. 3P	LP ₹ 3P	Cat. No. 4P	LP ₹ 4P
Open Execution				
100	IHYTCDO100	33,730	IHYFCDO100	37,630
125	IHYTCDO125	38,170	IHYFCDO125	42,585
160	IHYTCDO160	45,345	IHYFCDO160	49,230
200	IHYTCDO200	61,745	IHYFCDO200	65,980
250	IHYTCDO250	67,920	IHYFCDO250	72,575
315	IHYTCDO315	73,910	IHYFCDO315	78,095
400	IHYTCDO400	86,315	IHYFCDO400	90,275
500	IHYTCDO500	101,520	IHYFCDO500	106,165
630	IHYTCDO630	112,805	IHYFCDO630	117,020
With Enclosure				
100	IHYTCDE100	38,360	IHYFCDE100	42,265
125	IHYTCDE125	42,800	IHYFCDE125	47,220
160	IHYTCDE160	49,980	IHYFCDE160	53,865
200	IHYTCDE200	66,375	IHYFCDE200	70,610
250	IHYTCDE250	72,550	IHYFCDE250	77,205
315	IHYTCDE315	78,545	IHYFCDE315	82,730
400	IHYTCDE400	95,120	IHYFCDE400	99,075
500	IHYTCDE500	110,320	IHYFCDE500	114,970
630	IHYTCDE630	121,610	IHYFCDE630	125,825

Automatic Transfer Switch without Controller
HSN Code: 8537

Rating AMP.	Cat. No.	LP ₹ Four Pole
Open Execution		
100	IHYFNAO100	23,080
125	IHYFNAO125	24,605
160	IHYFNAO160	34,255
200	IHYFNAO200	48,660
250	IHYFNAO250	56,630
315	IHYFNAO315	60,935
400	IHYFNAO400	76,305
500	IHYFNAO500	91,260
630	IHYFNAO630	100,595



Three Pole, 415V

HSN Code: 8536

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	LP ₹	SS Enclosure Cat. Code	LP ₹
0	80	IHCSTO0080	1,510	IHCSTE0080	2,350
0	100	IHCSTO0100	2,460	IHCSTE0100	3,495
0	125	IHCSTO0125	3,270	IHCSTE0125	4,250
0	160	IHCSTO0160	3,895	IHCSTE0160	4,885
0	200	IHCSTO0200	4,425	IHCSTE0200	5,485
1	250	IHCSTO0250	5,525	IHCSTE0250	7,045
1	320	IHCSTO0320	6,075	IHCSTE0320	7,720
1	400	IHCSTO0400	8,735	IHCSTE0400	10,530



Euroload Switch Disconnecter

Four Pole, 415V

HSN Code: 8536

Frame Size	Current Rating (Amps)	Open Execution Cat. Code	LP ₹	SS Enclosure Cat. Code	LP ₹
00	40	IHCSFO0040	1,130	IHCSFE0040	1,815
00	63	IHCSFO0063	1,340	IHCSFE0063	2,025
00	80	IHCSFO0080	1,985	IHCSFE0080	2,690
00	100	IHCSFO0100	3,200	IHCSFE0100	3,915
0	125	IHCSFO0125	3,415	IHCSFE0125	4,315
0	160	IHCSFO0160	4,085	IHCSFE0160	4,990
0	200	IHCSFO0200	4,925	IHCSFE0200	5,950
1	250	IHCSFO0250	6,180	IHCSFE0250	8,010
1	320	IHCSFO0320	6,775	IHCSFE0320	8,505
2	400	IHCSFO0400	9,395	IHCSFE0400	11,745
2	630	IHCSFO0630	10,760	IHCSFE0630	13,260
3	800	IHCSFO0800	14,945	IHCSFE0800	18,920
4	1000	IHCSFO1000	24,265	IHCSFE1000	30,640
4	1250	IHCSFO1250	33,955	IHCSFE1250	41,350
4	1600	IHCSFO1600	47,815	IHCSFE1600	55,605
5	2000	IHCSFO2000	57,470	IHCSFE2000	73,215
5	2500	IHCSFO2500	74,575	IHCSFE2500	95,825
5	3150	IHCSFO3150	105,205	IHCSFE3150	123,815



Industrial Switchgear

Kompact *plus* Switch Disconnector Fuse Unit

(Conforms to IS/IEC:60947- Part 1 & 3)

HAVELLS

List Prices (LP) are in Indian ₹
as per Regular Terms & Conditions

Switch Disconnector Fuse Unit - (Panel Mounting Cubicle Type)

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

HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	HBC Fuse Type
	Open Execution with Fuses		In Sheet Steel Encl. with Fuses		
32	IHKDDF4032	1,475	IHKDDW4032	2,080	IHHTIA0032
32	IHKFDF4032	1,845	IHKFDW4032	2,415	IHHCD00032
63	IHKDDF4063	2,155	IHKDDW4063	2,790	IHHTSS0063
63	IHKFDF4063	2,405	IHKFDW4063	3,000	IHHCD00063
100	IHKDDF4100	4,370	IHKDDW4100	5,010	IHHTSD0100
100	IHKFDF4100	4,720	IHKFDW4100	5,385	IHHCD00100
125	IHKDDF4125	4,425	IHKDDW4125	5,040	IHHTSD0125
125	IHKFDF4125	4,840	IHKFDW4125	5,460	IHHCD00125



Kompact *plus* Switch Disconnector Fuse Unit

Switch Disconnector Fuse (Panel Mounting Cubicle Type)

Three Pole & Neutral - AC-23A, 50Hz, 415V

HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	HBC Fuse Type
	Open Execution with 3 Fuses		In Sheet Steel Encl. with 3 Fuses		
32	IHKDTF4032	1,635	IHKDTW4032	3,070	IHHTIA0032
32	IHKFTF4032	2,045	IHKFTW4032	3,480	IHHCD00032
63	IHKDTF4063	2,320	IHKDTW4063	3,750	IHHTSS0063
63	IHKFTF4063	2,740	IHKFTW4063	4,175	IHHCD00063
100	IHKDTF4100	5,035	IHKDTW4100	6,465	IHHTSD0100
100	IHKFTF4100	5,305	IHKFTW4100	6,735	IHHCD00100
125	IHKDTF4125	5,425	IHKDTW4125	6,855	IHHTSD0125
125	IHKFTF4125	5,665	IHKFTW4125	7,100	IHHCD00125



Kompact-EZO Switch Disconnector Fuse Unit

Switch Disconnector Fuse (Panel Mounting Cubicle Type)

Three Pole & Neutral - AC-23A, 50Hz, 415V

HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	HBC Fuse Type
	Open Execution with 3 Fuses		In Sheet Steel Encl. with 3 Fuses		
160	IHFSTF4160	6,600	IHFSTW4160	9,125	IHHTSF0160
160	IHFKTF4160	7,065	IHFKTW4160	9,590	IHHCD01160
200	IHFSTF4200	7,715	IHFSTW4200	10,240	IHHTSF0200
200	IHFKTF4200	8,035	IHFKTW4200	10,565	IHHCD01200
250	IHFSTF4250	9,385	IHFSTW4250	11,910	IHHTSF0250
250	IHFKTF4250	9,930	IHFKTW4250	12,460	IHHCD01250
320	IHFSTF4320	12,550	IHFSTW4320	15,500	IHHTSK0315
320	IHFKTF4320	13,375	IHFKTW4320	16,320	IHHCD02315
400	IHFSTF4400	15,080	IHFSTW4400	18,035	IHHTSMF400
400	IHFKTF4400	14,885	IHFKTW4400	17,835	IHHCD02400
630	IHFSTF4630	26,775	IHFSTW4630	30,560	IHHTLM0630
630	IHFKTF4630	24,435	IHFKTW4630	28,225	IHHCD03630
800	IHFSTF4800*	31,090	IHFSTW4800*	34,880	IHHTLM0800
800	IHFKTF4800*	28,075	IHFKTW4800*	31,870	



* 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.

* IHFKTF4800 & IHFKTW4800 available without Fuse Link

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

HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	HBC Fuse Type
	Open Execution with 4 Fuses		In Sheet Steel Encl. with 4 Fuses		
32	IHKDF4032	2,170	IHKDFW4032	3,605	IHTIA0032
32	IHKFF4032	2,780	IHKFFW4032	4,210	IHC00032
63	IHKDF4063	2,815	IHKDFW4063	4,245	IHTSS0063
63	IHKFF4063	3,265	IHKFFW4063	4,690	IHC00063
100	IHKDF4100	5,835	IHKDFW4100	7,265	IHTSD0100
100	IHKFF4100	6,230	IHKFFW4100	7,665	IHC00100
125	IHKDF4125	5,935	IHKDFW4125	7,370	IHTSD0125
125	IHKFF4125	6,345	IHKFFW4125	7,770	IHC00125



Kompact-EZO Switch Disconnecter Fuse Unit

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

HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	HBC Fuse Type
	Open Execution with 4 Fuses		In Sheet Steel Encl. with 4 Fuses		
160	IHFSF4160	8,485	IHFSFW4160	11,015	IHTSF0160
160	IHKFF4160	9,030	IHKFW4160	11,560	IHC01160
200	IHFSF4200	8,895	IHFSFW4200	11,425	IHTSF0200
200	IHKFF4200	9,785	IHKFW4200	12,310	IHC01200
250	IHFSF4250	10,505	IHFSFW4250	13,030	IHTSF0250
250	IHKFF4250	10,705	IHKFW4250	13,235	IHC01250
320	IHFSF4320	13,440	IHFSFW4320	16,810	IHTSK0315
320	IHKFF4320	13,835	IHKFW4320	17,205	IHC02315
400	IHFSF4400	15,620	IHFSFW4400	18,990	IHTSMF400
400	IHKFF4400	15,165	IHKFW4400	18,535	IHC02400
630	IHFSF4630	28,780	IHFSFW4630	32,575	IHTLM0630
630	IHKFF4630	26,340	IHKFW4630	30,130	IHC03630
800	IHFSF4800*	33,285	IHFSFW4800*	37,075	IHTLM0800
800	IHKFF4800*	30,615	IHKFW4800*	34,405	



Note:-

- * All switch disconnecter fuse units if required without fuse link will be made available on request.
- * IHFSFO/W 4800 and IHKFO/W 4800 available without Fuse Link.
- * IHKFF4800 & IHKFW4800 available without Fuse Link

Industrial Switchgear

Busbar Chambers

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Optima Series

HSN Code: 8536

Current Rating (A)	No. of	Cat. No.	MRP
		Wall Mounted	
63	4 WAY	IHBC006304	6,270
	6 WAY	IHBC006306	7,320
	8 WAY	IHBC006308	8,430
100	4 WAY	IHBC010004	7,540
	6 WAY	IHBC010006	10,430
	8 WAY	IHBC010008	10,960
200	4 WAY	IHBC020004	9,425
	6 WAY	IHBC020006	12,200
	8 WAY	IHBC020008	13,315
250	4 WAY	IHBC025004	15,600
	6 WAY	IHBC025006	24,550
	8 WAY	IHBC025008	30,705
315	4 WAY	IHBC031504	16,300
	6 WAY	IHBC031506	25,255
	8 WAY	IHBC031508	32,280
400	4 WAY	IHBC040004	17,610
	6 WAY	IHBC040006	26,565
	8 WAY	IHBC040008	33,405
630	4 WAY	IHBC063004	26,970
	6 WAY	IHBC063006	35,780
	8 WAY	IHBC063008	43,040
800	4 WAY	IHBC080004	28,685
	6 WAY	IHBC080006	38,235
	8 WAY	IHBC080008	48,405

For higher Ratings please contact nearest branch office.

Bolted Type

HSN Code: 8536

IS Size	Tag Type	BS Type	Rated Voltage (Volts) AC	Breaking Capacity (kA)	Rating (Amps)	Cat No.	LP ₹	STD Packing				
F-1	Offset	NS	415	80	2	IHHNS00002	45	20				
					4	IHHNS00004	45					
					6	IHHNS00006	45					
					10	IHHNS00010	45					
					16	IHHNS00016	45					
												20
					20	IHHNS00020	50					
					25	IHHNS00025	50					
A-2	Offset	TIA	415	80	6	IHHTIA0006	65	10				
					10	IHHTIA0010	65					
					16	IHHTIA0016	65					
					20	IHHTIA0020	65					
					25	IHHTIA0025	65					
					32	IHHTIA0032	65					
A-3	Offset	TSS	415	80	36	IHHTSS0036	80	10				
					50	IHHTSS0050	80					
					63	IHHTSS0063	80					
A-4	Offset	TSD	415	80	80	IHHTSD0080	170	10				
					100	IHHTSD0100	170					
					125	IHHTSD0125	170					
B-1	Central	TSDC	415	80	80	IHHTSDC080	175	10				
					100	IHHTSDC100	175					
					125	IHHTSDC125	175					
B-2	Central	TSF	415	80	125	IHHTSF0125	260	10				
					160	IHHTSF0160	260					
					200	IHHTSF0200	260					
					250	IHHTSF0250	285	10				
B-3	Central	TSK	415	80	225	IHHTSK0225	370	3				
					250	IHHTSK0250	370					
					300	IHHTSK0300	370					
					315	IHHTSK0315	370					
B - 4	Central	TSMF	415	80	400	IHHTSMF400	710	3				
C - 1	Central	TSMS	415	80	400	IHHTSMS400	710	3				
C - 2	Central	TTS	415	80	400	IHHTTS0400	805	1				
					500	IHHTTS0500	805					
C - 2	Central	TTM	415	80	400	IHHTTM0400	1,090	1				
					500	IHHTTM0500	1,090					
C - 2	Central	TLM	415	80	630	IHHTLM0630	1,430	1				
C - 2	Central	TLM	415	80	800	IHHTLM0800	1,590	1				



Industrial Switchgear

HiBreak HBC Fuse Link

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

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List Prices (LP) are in Indian ₹
as per Regular Terms & Conditions

DIN Type

HSN Code: 8536

IS Size	Rated Voltage (Volts) AC	Breaking Capacity (kA)	Rating (Amps)	Cat No.	LP ₹	STD Packing			
000	415	80	6	IHHCD11006	200	3			
			10	IHHCD11010	200				
			16	IHHCD11016	200				
			20	IHHCD11020	200				
			25	IHHCD11025	200				
			32	IHHCD11032	200				
						40	IHHCD11040	205	3
						50	IHHCD11050	205	
						63	IHHCD11063	205	
						80	IHHCD11080	205	
			100	IHHCD11100	205				
			6	IHHCD00006	210	3			
			10	IHHCD00010	210				
			16	IHHCD00016	210				
			20	IHHCD00020	210				
			25	IHHCD00025	210				
			32	IHHCD00032	210				
00	415	80	40	IHHCD00040	220	3			
			50	IHHCD00050	220				
			63	IHHCD00063	220				
			80	IHHCD00080	235	3			
			100	IHHCD00100	235	3			
			125	IHHCD00125	270	3			
01	415	80	32	IHHCD01032	425	3			
			40	IHHCD01040	425				
			50	IHHCD01050	425				
			63	IHHCD01063	425				
			80	IHHCD01080	425				
			100	IHHCD01100	425				
			125	IHHCD01125	425	3			
			160	IHHCD01160	435				
			200	IHHCD01200	435				
02	415	80	200	IHHCD02200	655	1			
			250	IHHCD02250	655				
			315	IHHCD02315	655				
			350	IHHCD02350	705	1			
			400	IHHCD02400	705				
03	415	80	425	IHHCD03425	995	1			
			500	IHHCD03500	1,015	1			
			630	IHHCD03630	1,015				



RH Type

HSN Code: **8536**

Rated Voltage (Volts) AC	Breaking Capacity (kA)	Rating (Amps)	Cat No.	LP ₹	STD Packing
415	80	2	IHHRH00002	85	20
		4	IHHRH00004	85	
		6	IHHRH00006	85	
		10	IHHRH00010	85	
		16	IHHRH00016	85	20
		20	IHHRH00020	85	
		25	IHHRH00025	85	
		32	IHHRH00032	85	
		40	IHHRH00040	95	
		50	IHHRH00050	175	
63	IHHRH00063	185	20		

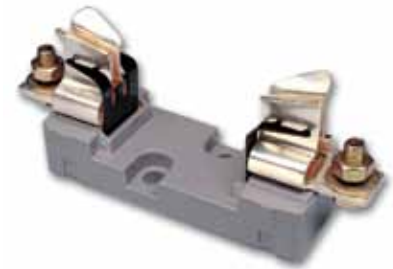


DIN Fuse Bases (Fixed Type)

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

HSN Code: **8536**

Rated Amp.	Cat. No.	Type	Fuse Type	LP ₹	STD Packing
100A	IHUC000100	Open Type Fuse Base	CD-00	260	6
125A	IHUC000125	Open Type Fuse Base	CD-00	270	6
160A	IHUC000160	Open Type Fuse Base	CD-00	290	6



i Base - DIN Fuse Bases (Fixed Type)

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

HSN Code: **8536**

Rated Amp.	Cat. No.	Type	Fuse Type	LP ₹	STD Packing
250A	IHIC010250	Open Type Fuse Base	CD-1	510	3
400A	IHIC020400	Open Type Fuse Base	CD-2	790	3
630A	IHIC030630	Open Type Fuse Base	CD-3	1,015	3





Motor Controlgear



Control Relay with AC Coil

HSN Code: 8536

Frame size	I _{th}	Contact arrangement		Type	Cat. No	LP ₹
		NO	NC			
1	10A	2	2	CRN1-22*	IHACR22*	905
		3	1	CRN1-31*	IHACR31*	905
		4	0	CRN1-40*	IHACR40*	905



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

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

HSN Code: 8536

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	LP ₹
	I _e Amp.	kW	HP	I _{th} Amp.		NO	NC			
1	9	4	5.0	25	3	1	0	CN1 09 T10*	IHPAA009110*	715
	9	4	5.0	25	3	0	1	CN1 09 T01*	IHPAA009101*	715
	12	5.5	7.5	25	3	1	0	CN1 12 T10*	IHPAA012110*	815
	12	5.5	7.5	25	3	0	1	CN1 12 T01*	IHPAA012101*	815
2	18	9	12.5	32	3	1	0	CN2 18 T10*	IHPAA018210*	940
	18	9	12.5	32	3	0	1	CN2 18 T01*	IHPAA018201*	940
3	25	11	15	40	3	1	0	CN3 25 T10*	IHPAA025310*	1,195
	25	11	15	40	3	0	1	CN3 25 T01*	IHPAA025301*	1,195
4	32	15	20	50	3	1	0	CN4 32 T10*	IHPAA032410*	2,560
	32	15	20	50	3	0	1	CN4 32 T01*	IHPAA032401*	2,560
5	40	22	30	60	3	1	1	CN5 40 T11*	IHPAA040511*	3,780
	50	25	35	80	3	1	1	CN5 50 T11*	IHPAA050511*	4,750
	65	37	50	80	3	1	1	CN5 65 T11*	IHPAA065511*	6,105
6	80	45	60	125	3	1	1	CN6 80 T11*	IHPAA080611*	7,720
	95	45	60	125	3	1	1	CN6 95 T11*	IHPAA095611*	9,400



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

- Note:
- For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table.
 - 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)

HSN Code: 8536

Frame Size	AC-3 Duty Rating at 415V, 50 Hz			AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Type	Cat. No	LP ₹
	I _e Amp.	kW	HP	I _{th} Amp.				
1	115	59	75	200	3	CH1 115 T*	IHPAA115100*	12,045
	150	80	100	250	3	CH1 150 T*	IHPAA150100*	16,060
2	185	100	125	275	3	CH2 185 T*	IHPAA185200*	19,995
	225	110	150	315	3	CH2 225 T*	IHPAA225200*	21,765
3	265	132	180	350	3	CH3 265 T*	IHPAA265300*	25,050
4	330	180	220	400	3	CH4 330 T*	IHPAA330400*	31,310
5	400	220	270	500	3	CH5 400 T*	IHPAA400500*	37,570
6	500	280	340	700	3	CH6 500 T*	IHPAA500600*	52,175
7	630	375	450	1000	3	CH7 630 T*	IHPAA630700*	77,060



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

HSN Code: 8536

Frame Size	AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Type	Cat. No	LP ₹
	I _{th} Amp.				
1	25	4	CN1 12 F*	IHPAC012100*	1,050
3	40	4	CN3 25 F*	IHPAC025300*	1,660
5	60	4	CN5 40 F*	IHPAC040500*	4,000
	80	4	CN5 65 F*	IHPAC065500*	5,750
6	125	4	CN6 95 F*	IHPAC095600*	8,710



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

HSN Code: 8536

Frame Size	AC-1 Duty Rating at 415V, 50 Hz	Power Poles	Type	Cat. No	LP ₹
	I _{th} Amp.				
1	200	4	CH1 115 F*	IHPAC115100*	16,580
	250	4	CH1 150 F*	IHPAC150100*	18,235
2	275	4	CH2 185 F*	IHPAC185200*	27,740
	315	4	CH2 225 F*	IHPAC225200*	29,620
3	350	4	CH3 265 F*	IHPAC265300*	31,600
4	400	4	CH4 330 F*	IHPAC330400*	38,395
5	500	4	CH5 400 F*	IHPAC400500*	47,535
6	700	4	CH6 500 F*	IHPAC500600*	65,495
7	1000	4	CH7 630 F*	IHPAC630700*	98,420



*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

HSN Code: 8538

Description	Suitable for Mounting on Contactors	Contact Configuration		Type	Cat No.	LP ₹
		NO	NC			
Side Block	CN Frame size 1-6 9A-95A 3P/4P	1	1	CAS11	ISPNASM611	370
		2	0	CAS20	ISPNASM620	370
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	300
		2	2	CAF22	ISPNAFM722	370
		3	1	CAF31	ISPNAFM731	370
		4	0	CAF40	ISPNAFM740	370



Add on Accessories: Pneumatic Timer Block

HSN Code: 8538

ON Delay	Suitable for Mounting on Contactors	Type	Cat No.	LP ₹
0.1 -3s	CN/CD/CH 9A-630A	CPT1A	IHNN4000	1,315
0.1-30s		CPT1B	IHNN5000	1,315
10-180s		CPT1C	IHNN6000	1,315



Add on Accessories: Pneumatic Timer Block

HSN Code: 8538

OFF Delay	Suitable for Mounting on Contactors	Type	Cat No.	LP ₹
0.1 -3s	CN/CD/CH 9A-630A	CPT2A	IHNF4000	1,315
0.1-30s		CPT2B	IHNF5000	1,315
10-180s		CPT2C	IHNF6000	1,315



Capacitor Duty Contactor 3-Pole with AC Coil

HSN Code: 8536

KVAR Rating at 50/60Hz 0 ≤ 55° C	Inst. Aux. Contact		Type	Cat. No.	LP ₹
	NO	NC			
415/440V					
12	1	0	CC2 1210*	IHPAE012210*	2,095
18	1	0	CC3 1810*	IHPAE018310*	2,955
20	1	0	CC4 2010*	IHPAE020410*	3,270
30	1	1	CC5 3011*	IHPAE030511*	5,890
50	1	1	CC6 5011*	IHPAE050611*	10,735



* 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)



HSN Code: 8536

Relay Frame size	Relay Range (A)	Suitable for Contactor Frame size	Type	Cat. No.	LP ₹	Individual Mounting Block
1	0.1-0.16	CN1 to CN4	RT21A	IHNR 11AA	930	 Type RTA2-25 Cat No. ISSTRX024025 Unit LP ₹ 195
	0.16-0.25		RT21B	IHNR 11AB	930	
	0.25-0.4		RT21C	IHNR 11AC	930	
	0.4-0.63		RT21D	IHNR 11AD	930	
	0.63 -1		RT21E	IHNR 11AE	930	
	1-1.6		RT21F	IHNR 11AF	930	
	1.6-2.5		RT21G	IHNR 11AG	930	
	2.5-4		RT21H	IHNR 11AH	930	
	4-6		RT21J	IHNR 11AJ	930	
	5.5-8		RT21K	IHNR11AK	930	
	7-10		RT21L	IHNR 11AL	930	
	9-13		RT21M	IHNR 11AM	930	
	12-18		RT21N	IHNR 11AN	1,105	
	17-25		RT21P	IHNR 11AP	1,105	
	2		23-32	CN4	RT22Q	
28-36		RT22R	IHNR22AR		1,630	
3	23-32	CN5 to CN6	RT23T	IHNR33AT	1,805	 Type RTA2-93 Cat No. ISSTRX024293 Unit LP ₹ 1100
	30-40		RT23U	IHNR33AU	1,805	
	37-50		RT23V	IHNR33AV	2,200	
	48-65		RT23W	IHNR33AW	2,890	
	55-70		RT23X	IHNR33AX	2,890	
	63-80		RT23Y	IHNR33AY	3,075	
	80-93		RT23Z	IHNR33AZ	3,160	



Thermal Over Load Relay (Manual Reset)

HSN Code: 8536

Relay Frame size	Relay Range (A)	Suitable for Contactor Frame size	Type	Cat. No.	LP ₹	Individual Mounting Block
1	0.1- 0.16	CN 1 to CN 4	RT11A	IHNR11MA	880	 Type RTA1-25 Cat No. ISSTRX024325 Unit LP ₹ 175
	0.16-0.25		RT11B	IHNR11MB	880	
	0.25-0.4		RT11C	IHNR11MC	880	
	0.4-0.63		RT11D	IHNR11MD	880	
	0.63-1		RT11E	IHNR11ME	880	
	1-1.6		RT11F	IHNR11MF	880	
	1.6-2.5		RT11G	IHNR11MG	880	
	2.5-4		RT11H	IHNR11MH	880	
	4-6		RT11J	IHNR11MJ	880	
	5.5-8		RT11K	IHNR11MK	880	
	7-10		RT11L	IHNR11ML	880	
	10-13		RT11M	IHNR11MM	880	
	13-18		RT11N	IHNR11MN	1,020	
	18-25		RT11P	IHNR11MP	1,020	
2	23-32	CN 5 to CN 6	RT12Q	IHNR22MQ	1,515	 Type RTA1-80 Cat No. ISSTRX024480 Unit LP ₹ 325
	30-40		RT12R	IHNR22MR	1,515	
3	38-50	CN 5 to CN 6	RT13V	IHNR33MV	1,820	
	48-57		RT13W	IHNR33MW	2,475	
	57-66		RT13X	IHNR33MX	2,870	
	63-80		RT13Y	IHNR33MY	3,140	



Cosmic Star - Direct Online Starter

HSN Code: 8536

H.P.	kW	Contactors Rating	Overload Relay Range (Amp.)	Cat. No.	LP ₹
0.75	0.6	12	1-1.6	IHPDOLFA*A	2,075
1	0.7	12	1.6-2.5	IHPDOLGA*B	2,075
2	1.5	12	2.5-4	IHPDOLHA*C	2,075
3	2.2	12	4-6	IHPDOLJA*D	2,075
5	3.7	12	7-10	IHPDOLLA*E	2,360
7.5	5.6	18	10-13	IHPDOLMB*F	2,450
10	7.5	18	13-18	IHPDOLNB*G	2,450
15	11.2	32	18-25	IHPDOLPD*H	3,400
20	14.9	32	23-32	IHPDOLQD*J	6,425
25	18.7	40	30-40	IHPDOLVE*	8,265
30	22.4	50	38-50	IHPDOLWE*	9,485
40	29.8	65	57-66	IHPDOLYF*	10,875
50	37.3	80	63-80	IHPDOLZF*	13,835
60	44.8	95	80-93	IHPDOLDG*	14,330
75	56.0	115	90-150	IHPDOLDG*A	20,755
85	63.4	150	90-150	IHPDOLDG*B	23,520
100	74.6	150	132-220	IHPDOLEH*	25,785



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

HSN Code:8536

H.P.	kW	Contactors Size	Overload Relay Range (Amp.)	Cat. No.	LP ₹
10	7.5	18	9.0-13	IHPASDMB*	7,185
12.5	9.3	18	12.0-18	IHPASDNB*	7,290
15	11.2	25	12.0-18	IHPASDNC*	7,590
20	14.9	25	17-25	IHPASDPD*	8,940
25	18.7	32	17-25	IHPASDQD*	9,720
30	22.4	32	23-32	IHPASDQD*A	10,845
35	26.1	32	28-36	IHPASDUE*	14,860
50	37.3	50	37-50	IHPASDWE*	26,350
60	44.8	50	48-65	IHPASDWF*	29,055
75	56.0	65	55-70	IHPASDYF*	34,995
90	67.1	80	63-80	IHPASDCG*	41,505
100	74.6	95	80-93	IHPASDDG*	51,510
125	93.3	115	90-150	IHPASDDG*A	71,125
150	111.9	150	90-150	IHPASDEH*	72,025



- Starters are supplied with standard coil voltage 415V AC
- For other voltages please specify coil code from the below table. (*suffix 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

Industrial Switchgear

Submersible Motor Starters

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as per Regular Terms & Conditions

Cosmic Star - Reversing Starter

HSN Code: 8536

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	LP ₹
2	1.5	18	2.5-4	IHPREVHB*	7,190
3	2.2	18	4.0-6.0	IHPREVJB*	7,190
5	3.7	18	7.0-10	IHPREVLB*	7,190
7.5	5.6	18	10.0-13	IHPREVMB*	7,190
10	7.5	18	13-18	IHPREVN B*	8,580
15	11.2	32	18-25	IHPREVPD*	9,860
20	14.9	32	28-36	IHPREVRD*	11,280



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

HSN Code: 8536

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	LP ₹
1	0.75	18	1.6-2.5	IHSDOAGB*A	6,675
2	1.5	18	2.5-4	IHSDOAHB*A	6,675
3	2.2	18	5.5-8	IHSDOAKB*A	6,675
5	3.7	18	9-13	IHSDOAMB*A	6,675
7.5	5.5	18	12-18	IHSDOANB*A	6,995
10	7.5	25	17-25	IHSDOAPC*A	7,245
12.5	9.3	32	17-25	IHSDOAPD*A	7,355
15	11	32	23-32	IHSDOAQD*A	8,140



• 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

HSN Code: 8536

H.P.	kW	Contactor Size	Overload Relay Range (Amp.)	Cat. No.	LP ₹
5	3.7	18	5.5-8	IHSASAK2*E	13,120
7.5	5.5	18	7-10	IHSASAL2*E	13,120
10	7.5	18	9-13	IHSASAM2*E	13,360
12.5	9.3	18	12-18	IHSASAN2*E	13,695
15	11	25	17-25	IHSASAP3*E	13,915
17.5	13.1	32	17-25	IHSASAP4*E	14,275
20	15	32	17-25	IHSASAP4*A	14,795
22.5	16.8	32	23-32	IHSASAQ4*E	18,705
25	19	32	23-32	IHSASAQ4*A	18,705
27.5	20.5	40	30-40	IHSASAU5*E	23,595
30	22.4	50	30-40	IHSASAU5*A	24,195
35	26.1	50	37-50	IHSASAV5*E	24,520
40	29.8	65	37-50	IHSASAV5*A	27,335
45	33.6	80	48-65	IHSASAW6*E	34,555
50	37.5	95	55-70	IHSASA1F*T	44,950



• 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

Cosmic Star Deluxe Automatic Star Delta Submersible Pump Starter

HSN Code: 8536

H.P.	kW	Contactors Size	Overload Relay Range (Amp.)	Cat. No.	LP ₹
5	3.7	18	5.5-8	IHDASAK2*E	13,195
7.5	5.5	18	7-10	IHDASAL2*E	13,195
10	7.5	18	9-13	IHDASAM2*E	13,550
12.5	9.3	18	12-18	IHDASAN2*E	13,890
15	11	25	17-25	IHDASAP3*E	14,650
17.5	13.1	32	17-25	IHDASAP4*E	15,030
20	15	32	17-25	IHDASAP4*A	15,490
22.5	16.8	32	23-32	IHDASAQ4*E	16,640
25	19	32	23-32	IHDASAQ4*A	16,640
27.5	20.5	40	30-40	IHDASAU5*E	24,900
30	22.4	50	30-40	IHDASAU5*A	26,600
35	26.1	50	37-50	IHDASAV5*E	26,945
40	29.8	65	37-50	IHDASAV5*A	29,885
45	33.6	80	48-65	IHDASAW6*E	37,425
50	37.5	95	55-70	IHDASA1F*T	48,255

- 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

HSN Code: 8537

Phase	Frame Size	Max. Load (kW)	Timer	Contactors Rating (A)	MCB Rating	SAP Code	LP ₹
3	1	6	Digital 24 Hr.	32 / TP	40 / TPN	IHXTS03060	19,470
	1	6	Astronomical	32 / TP	40 / TPN	IHXTS0306A	19,470
	2	12	Digital 24 Hr.	65 / TP	63 / TPN	IHXTS09120	28,315
	2	12	Astronomical	65 / TP	63 / TPN	IHXTS0912A	28,315
1	1	6	Digital 24 Hr.	32 / TP	40 / SPN	IHXSS01060	14,600
	1	6	Astronomical	32 / TP	40 / SPN	IHXSS0106A	14,600
	1	12	Digital 24 Hr.	65 / TP	63 / SPN	IHXSS03120	21,940
	1	12	Astronomical	65 / TP	63 / SPN	IHXSS0312A	21,940





General Purpose

Switchgear



Onload Changeover Switch - AC 23 (side handle)

in sheet enclosure, 415V AC, 50 Hz. HSN Code: 8536

Rating Amp.	Cat. No.	LP ₹
	Double Pole	
32	IHBFDE0032 (240V)	1,770
63	IHBFDE0063 (240V)	3,425
	Triple Pole	
32	IHBFTE0032	2,635
63	IHBFTE0063	5,170
100	IHBFTE0100	9,785
	Four Pole	
16	IHBFFE0016	2,635
32	IHBFFE0032	3,165
63	IHBFFE0063	6,360
100	IHBFFE0100	12,715



Offload Changeover Switch- AC 21 (side handle)

in sheet enclosure, 415V AC, 50 Hz. HSN Code: 8536

Rating Amp.	Cat. No.	LP ₹
	Four Pole	
200	IHBFFE0200	19,145
320	IHBFFE0320	23,495
400	IHBFFE0400	30,700
630	IHBFFE0630	47,995
800	IHBFFE0800	59,845
1000	IHBFFE1000	83,440
1250	IHBFFE1250	179,230
1500	IHBFFE1500	206,835
2000	IHBFFE2000	291,300

Kit-kat Rewireable (Porcelain Fuse carrier & Base)

Specification: IS: 2086

HSN Code: 8536

Amps/ Volt	Cat. No.	LP ₹	STD. Packing
16/240	IHKKRN2016	115	20
16/415	IHKKRN4016	195	24
32/240	IHKKRN2032	195	24
32/415	IHKKRN4032	245	12
63/415 *	IHKKRN4063	390	12
63/415 #	IHKKDN4063	430	6
100/415 *	IHKKRN4100	700	6
100/415 #	IHKKDN4100	810	1
200/415 *	IHKKRN4200	1,405	1
200/415 **	IHKKRT4200	1,615	1
320/415 *	IHKKRN4320	2,050	1
320/415**	IHKKRT4320	2,420	1



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

Industrial Switchgear

General Purpose Switch Fuse Units / Fuse Switches

(Conforms to IS/IEC:60947-1 & 3)

HAVELLS

List Prices (LP) are in Indian ₹
as per Regular Terms & Conditions

Single Pole & Neutral / Double Pole HSN Code: 8537

Amp. / Volt AC	Cat. No.	LP ₹
	Single Pole & Neutral	
16/240	IHBRSE2016	595
32/240	IHBRSE2032	1,470
32/415	IHBRSE4032	2,075
63/415	IHBRSE4063	3,570
	Double Pole	
16/240	IHBRDE2016	595
32/240	IHBRDE2032	1,190
32/415	IHBRDE4032	2,335
63/415	IHBRDE4063	4,110



Triple Pole with Neutral Link, 415V AC, 50 Hz HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	Suitable Fuse Type
	With Rewireable Porcelain Fuse Units		With HBC cum rewireable Porcelain Fuse Units (W/O Fuse link)		
16	IHBRT4016	1,830	IHBHTE4016	1,830	IHHNS0016
32	IHBRT4032	2,365	IHBHTE4032	2,365	IHHTIA0032
63	IHBRT4063	4,775	IHBHTE4063	5,175	IHHTSS0063
100	IHBRT4100	8,900	IHBHTE4100	9,490	IHHTSD0100
200	IHBRT4200	14,665	—	—	—
320	IHBRT4320	18,140	—	—	—

Heavy Duty Double Break Fuse Switches - HBC Fuse type

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

In sheet enclosure, 415V AC, 50 Hz.

HSN Code: 8537

Rating Amp.	Cat. No.	LP ₹	Cat. No.	LP ₹	Fuse Type
	Triple Pole & Neutral		Four Pole with Switched Neutral		
63	IHFNTW4063	7,540	IHFNF4063	9,210	IHHTSS0063
100	IHFNTW4100	10,195	IHFNF4100	12,880	IHHTSD0100
160	IHFNTW4160	15,395	IHFNF4160	18,265	IHHTSD0160
200	IHFNTW4200	17,370	IHFNF4200	19,215	IHHTSF0200
320	IHFNTW4320	19,570	IHFNF4320	24,460	IHHTSK0315
400	IHFNTW4400	28,080	IHFNF4400	38,130	IHHTSMF400
500	IHFNTW4500	39,680	—	—	IHHTTM0500
800*	IHFNTW4800	49,480	—	—	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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Air Circuit Breaker - In 3 Frame Sizes from 630A to 4000A in 3 Pole / 4 Pole Execution with 50kA to 100kA breaking capacity

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- Compact size & high breaking capacity
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- Easily replaceable arcing contacts
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Euroload Changeover Switch



Submersible & Motor Starter



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Fuse Switch & Switch Fuse



Load Changeover Switch



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