

*Powering Lives...*



**HAVELLS**

# **ENTERPRISE SOLUTIONS**

## **LV SWITCHGEAR & POWER QUALITY**





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# ABOUT US

## Redefining the modern homes with innovation and excellence

Havells is at the forefront of transforming modern living spaces by offering innovative solutions that elevate everyday experiences. With a deep understanding of consumer needs, the company has expanded its footprint across every aspect of home life, creating environment that are not only functional but also comfortable, stylish, and future-ready. To make these solutions accessible, Havells leverages an extensive distribution network encompassing 18,000 dealers, over 1,000 exclusive brand stores, intensifying presence in modern retail, e-commerce and quick commerce.

The company's portfolio includes power brands like Havells, Havells Crabtree, Lloyd, REO, Havells Studio, and Standard each designed to cater to the unique demands of today's consumers.

Anchored in the 'Make in India' initiative, Havells operates 16 cutting-edge manufacturing facilities across India, producing 90% of its products in-house. At the forefront of Havells product evolution lies its Customer Experience & Designs (CXD) Studio, where creativity and user-centric design converge. This is complemented by its Centre for Research & Innovation (CRI), supported by four advanced R&D centres, enabling Havells to consistently deliver products that are both functional and visually compelling.

Driven by a commitment to innovation, quality, and design, the company also upholds sustainable practices throughout its operations, including eco-friendly manufacturing processes and energy-efficient product design, contributing to a greener and more sustainable future.



CORPORATE OFFICE, NOIDA



State-of-the-Art Manufacturing Unit



Industry 4.0 Process



Center For Research & Innovation



Customer Experience & Design



**16** Manufacturing Units

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# DRIVEN BY INNOVATION. POWERED BY INDIA.



Innovation



Technology



Digitalization

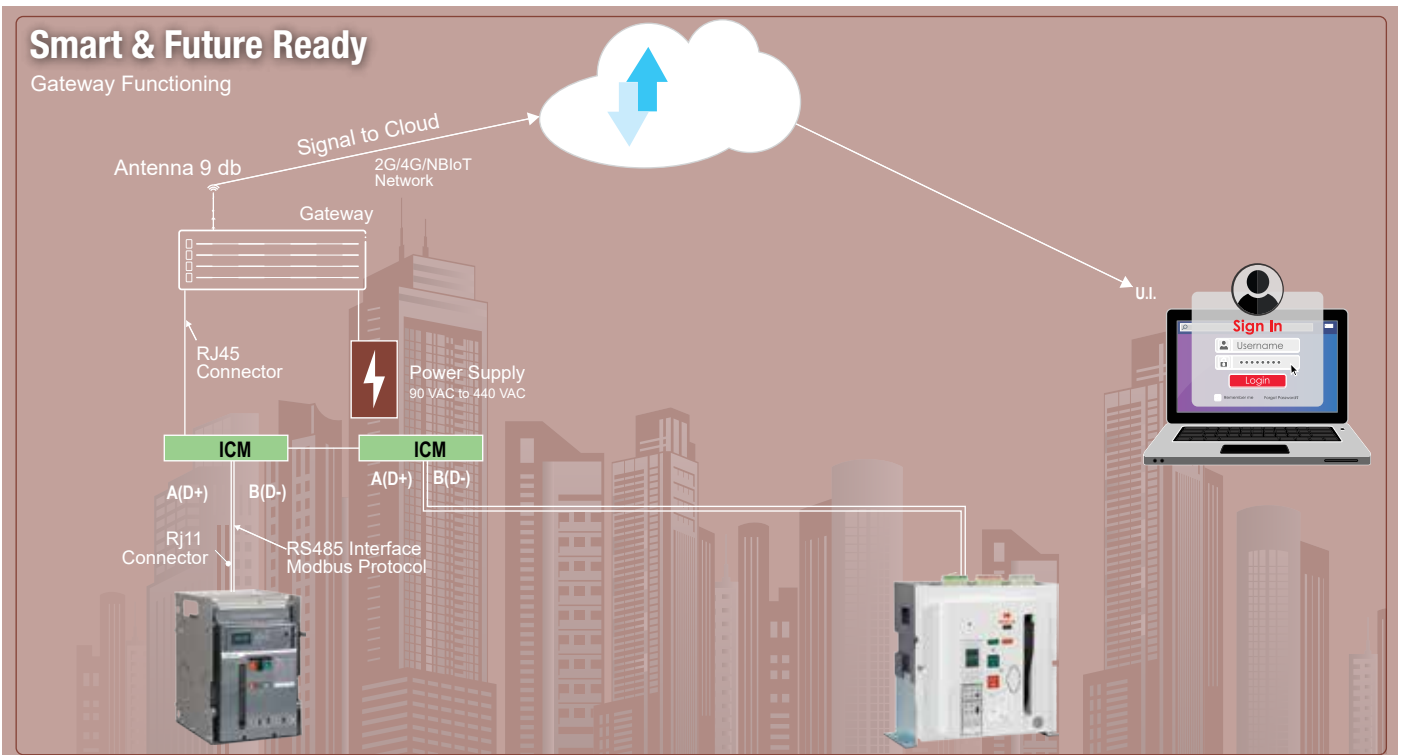


# Powergear



# ACB Ordering Code Logic

1, 2, 3	4	5	6	7	8, 9	10		11, 12		13
Product	Pole	Breaking Capacity	Mounting Type	IPR	Rating	Closing Coil & Charging Motor		SHT & UVT		Current Transformer
						CC (Voltage)	CM (Voltage)	UVT (Voltage)	SHT (Voltage)	
IHA	T	E	Manual Fixed = 1	Bus Coupler = 0	400 A = 04	24 V	220 = A	415 V	24 V = 01	If rating same as ACB rating then = 0
	TP	50 kA	Manual Drawout = 2	IPR 1 = 1	630 A = 06	110 V	220 = B	415 V	110 V = 02	400 A = A
	F	S	Electrical Fixed = 4	IPR 3 = 3	800 A = 08	220 V	220 = C	415 V	220 V = 03	630 A = B
	FP	65 kA	Electrical Drawout = 5	IPR 5 = 5	1000 A = 10	415 V	220 = D	415 V	415 V = 04	800 A = C
		H		IPR E = E	1250 A = 12	24 V	110 = E	415 V	0 = 05	1000 A = D
		75 kA			1600 A = 16	110 V	110 = F	220 V	24 V = 06	1250 A = E
					2000 A = 20	220 V	110 = G	220 V	110 V = 07	1600 A = F
					2500 A = 25	415 V	110 = H	220 V	220 V = 08	2000 A = G
						Not req.	Not req. = 0	220 V	415 V = 09	2500 A = H
								220 V	0 = 10	3200 A = I
								110 V	24 V = 11	4000 A = J
								110 V	110 V = 12	5000 A = K
								110 V	220 V = 13	6300 A = L
								110 V	415 V = 14	
								110 V	0 = 15	
								24 V	24 V = 16	
								24 V	110 V = 17	
								24 V	220 V = 18	
								24 V	415 V = 19	
								24 V	0 = 20	
									24 V = 21	
									110 V = 22	
									220 V = 23	
									415 V = 24	





# Titania

Air Circuit Breaker

400 A – 3200 A

Breaking Capacity @ 415 V	E Frame	S Frame	H Frame
	<b>400 A - 2000 A</b>	<b>400 A - 2000 A</b>	<b>2500 A - 3200 A</b>
lcs=100% lcu	50 kA	65 kA	65 kA
lcw for 1 s	50 kA	50 kA	65 kA



# Titania+

Air Circuit Breaker

630 A – 6300 A

Breaking Capacity @ 415 V	A Frame	AA Frame	B Frame	C Frame	D Frame
	<b>630 A - 1600 A</b>	<b>2000 A - 2500 A</b>	<b>3200 A - 4000 A</b>	<b>5000 A</b>	<b>6300 A</b>
lcs=100% lcu	65 kA	85 kA	100 kA	100 kA	150 kA
lcw for 1 s	50 kA	70 kA	85 kA	85 kA	100 kA

# Titania Air Circuit Breaker

(Conforms to IS/IEC:60947-2)



## 3 Pole ACB with Microprocessor Release IPR 1+

Current Rating	Rated Ultimate Short-circuit Breaking Capacity Ics = 100 % Icu at	MANUAL				ELECTRICAL*	
		Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Item Code	
(A)	415 V (kA)	Fixed		Drawout		Fixed	Drawout
630 A	50 kA	IHATE11060**#	149875.00	IHATE21060**#	194840.00	IHATE4106\$**#	IHATE5106\$**#
800 A	50 kA	IHATE11080**#	149875.00	IHATE21080**#	194840.00	IHATE4108\$**#	IHATE5108\$**#
1000 A	50 kA	IHATE11100**#	152790.00	IHATE21100**#	198625.00	IHATE4110\$**#	IHATE5110\$**#
1250 A	50 kA	IHATE11120**#	170650.00	IHATE21120**#	214890.00	IHATE4112\$**#	IHATE5112\$**#
1600 A	50 kA	IHATE11160**#	186110.00	IHATE21160**#	233850.00	IHATE4116\$**#	IHATE5116\$**#
2000 A	50 kA	IHATE11200**#	214890.00	IHATE21200**#	282195.00	IHATE4120\$**#	IHATE5120\$**#

## 3 Pole ACB with Microprocessor Release IPR 1+

Current Rating	Rated Ultimate Short-circuit Breaking Capacity Ics = 100 % Icu at	MANUAL				ELECTRICAL*	
		Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Item Code	
(A)	415 V (kA)	Fixed		Drawout		Fixed	Drawout
630 A	65 kA	IHATS11060**#	163145.00	IHATS21060**#	251190.00	IHATS4106\$**#	IHATS5106\$**#
800 A	65 kA	IHATS11080**#	163145.00	IHATS21080**#	251190.00	IHATS4108\$**#	IHATS5108\$**#
1000 A	65 kA	IHATS11100**#	170725.00	IHATS21100**#	271450.00	IHATS4110\$**#	IHATS5110\$**#
1250 A	65 kA	IHATS11120**#	211310.00	IHATS21120**#	306405.00	IHATS4112\$**#	IHATS5112\$**#
1600 A	65 kA	IHATS11160**#	223635.00	IHATS21160**#	333215.00	IHATS4116\$**#	IHATS5116\$**#
2000 A	65 kA	IHATS11200**#	240170.00	IHATS21200**#	353935.00	IHATS4120\$**#	IHATS5120\$**#
2500 A	65 kA	IHATN11250**#	278615.00	IHATN21250**#	415140.00	IHATN4125\$**#	IHATN5125\$**#
3200 A	65 kA	IHATN11320**#	348905.00	IHATN21320**#	453630.00	IHATN4132\$**#	IHATN5132\$**#

## 4 Pole ACB with Microprocessor Release IPR 1+

Current Rating	Rated Ultimate Short-circuit Breaking Capacity Ics = 100 % Icu at	MANUAL				ELECTRICAL*	
		Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Item Code	
(A)	415 V (kA)	Fixed		Drawout		Fixed	Drawout
630 A	50 kA	IHAPE11060**#	189750.00	IHAPE21060**#	241010.00	IHAPE4106\$**#	IHAPE5106\$**#
800 A	50 kA	IHAPE11080**#	189750.00	IHAPE21080**#	241010.00	IHAPE4108\$**#	IHAPE5108\$**#
1000 A	50 kA	IHAPE11100**#	198170.00	IHAPE21100**#	257620.00	IHAPE4110\$**#	IHAPE5110\$**#
1250 A	50 kA	IHAPE11120**#	209620.00	IHAPE21120**#	272500.00	IHAPE4112\$**#	IHAPE5112\$**#
1600 A	50 kA	IHAPE11160**#	232400.00	IHAPE21160**#	299340.00	IHAPE4116\$**#	IHAPE5116\$**#
2000 A	50 kA	IHAPE11200**#	275050.00	IHAPE21200**#	356460.00	IHAPE4120\$**#	IHAPE5120\$**#

\* Please refer table A to Product price list  
 To replace \$ Please refer table 1 at page-12  
 To replace \*\* Please refer table 2 at page-12  
 To replace # Please refer table 3 at page-12  
 Door Flange (Escutcheon Frame) is supplied alongwith ACB

# Titania Air Circuit Breaker

(Conforms to IS/IEC:60947-2)

## 4 Pole ACB with Microprocessor Release IPR 1+

Current Rating	Rated Ultimate Short-circuit Breaking Capacity Ics = 100 % Icu at	MANUAL				ELECTRICAL*	
		Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Item Code	
(A)	415 V (kA)	Fixed		Drawout		Fixed	Drawout
630 A	65 kA	IHAFS11060**#	205580.00	IHAFS21060**#	354865.00	IHAFS4106\$**#	IHAFS5106\$**#
800 A	65 kA	IHAFS11080**#	205580.00	IHAFS21080**#	354865.00	IHAFS4108\$**#	IHAFS5108\$**#
1000 A	65 kA	IHAFS11100**#	237960.00	IHAFS21100**#	364080.00	IHAFS4110\$**#	IHAFS5110\$**#
1250 A	65 kA	IHAFS11120**#	272590.00	IHAFS21120**#	417055.00	IHAFS4112\$**#	IHAFS5112\$**#
1600 A	65 kA	IHAFS11160**#	319115.00	IHAFS21160**#	488245.00	IHAFS4116\$**#	IHAFS5116\$**#
2000 A	65 kA	IHAFS11200**#	341295.00	IHAFS21200**#	498315.00	IHAFS4120\$**#	IHAFS5120\$**#
2500 A	75 kA	IHAFN11250**#	366575.00	IHAFN21250**#	509610.00	IHAFN4125\$**#	IHAFN5125\$**#
3200 A	75 kA	IHAFN11320**#	429850.00	IHAFN21320**#	558775.00	IHAFN4132\$**#	IHAFN5132\$**#

### Table - A

List prices Charges for product different version wrt IPR1+ ACB List Price	Per Unit LP (₹)
Bus Coupler w/o Protection	Reduce 21955.00
Micro processor release IPRE+ ( LI)	Reduce 9515.00
Micro processor release IPR3+ ( LSIG+ LCD Display+Thermal Memory+ Zone selectivity+ Current & Voltage Mesurment+ Advance protection +Over Tempeture Protection)	Add 30835.00
Micro processor release IPR5+( LCD Display+Thermal Memory+ Zone selectivity+ Advance protection+ Advance Mesurment Over Tempeture Protection+ Maximum Demand + Communication)	Add 42925.00
To Convert Electrical version from Manual version (includes Motor, Shunt trip & Closing Coil)	Add 48675.00

### 3. Communication Software

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
SACX0346	Communication software for IRP-5+	POR



Undervoltage release

### 4. Under Voltage Trip Device (UVT)

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0196	220 V AC	5275.00
ISACX0197	415 V AC	5275.00

### 1. Spring Charging Motor

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0358	Charging Motor 110 V	41175.00
ISACX0147	Charging Motor 230 V	41175.00

### 2. Shunt Trip / Closing Coil

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0170	24 VDC	3750.00
ISACX0168	110 V AC/DC	3750.00
ISACX0167	220 V AC/DC	3750.00
ISACX0212	415 V AC	3750.00



Shunt Trip Coil / Closing Coil

\* Please refer table A to Product price list  
 To replace \$ Please refer table 1 at page-12  
 To replace \*\* Please refer table 2 at page-12  
 To replace # Please refer table 3 at page-12  
 Door Flange (Escutcheon Frame) is supplied alongwith ACB

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

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# Titania Air Circuit Breaker

(Conforms to IS/IEC:60947-2)

## 5. Main CT's

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ICELFACL018	CT 400 A	3625.00
ICELFACL001	CT 630 A	3625.00
ICELFACL002	CT 800 A	3625.00
ICELFACL003	CT 1000A	3820.00
ICELFACL004	CT 1250 A	3820.00
ICELFACL005	CT 1600 A	3820.00
ICELFACL006	CT 2000 A	5125.00
ICELFACL007	CT 2500A	5125.00

## 7. Key Lock / Key Interlock

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0301	On/Off Button cover	485.00
ISACX0353	Key lock (1 lock+1 key)	1965.00
-	Key interlock (2 locks+1 keys)	2750.00
-	Key interlock (3 locks+2 keys)	5795.00
ISACX0341	Drawout position Lock	2385.00

## 9. Other Accessories

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0208	Door Interlock	3500.00
ISACX0028	Close open cycle counter	3445.00

Table 1

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

Table 2

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

## 6. Neutral CTs

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ICELFACL019	NCT 400 A	3625.00
ICELFACL012	NCT 630 A	3625.00
ICELFACL013	NCT 800 A	3625.00
ICELFACL014	NCT 1000A	3820.00
ICELFACL015	NCT 1250 A	3820.00
ICELFACL016	NCT 1600 A	3820.00
ICELFACL017	NCT 2000 A	5125.00
ICELFACL021	NCT 2500A	5125.00

## 8. Adaptor Type Terminals (additional price)

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISSACX0174	630/800 A	5180.00
ISSACX0164	1000/1250 A	5690.00
ISSACP0434	1600 A	8050.00

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

## 10. Other Accessories

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0207	Spring charge indication switch	2285.00
ISACX0349	Trip indication Switch	1440.00
ISACX0139	Aux. switch (5 c/o additional)	3510.00
ISACX0182	Position indication switch	2510.00
ISACX0302	Field test unit	3370.00

Table 3

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

\*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	Horizontal Terminals 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.

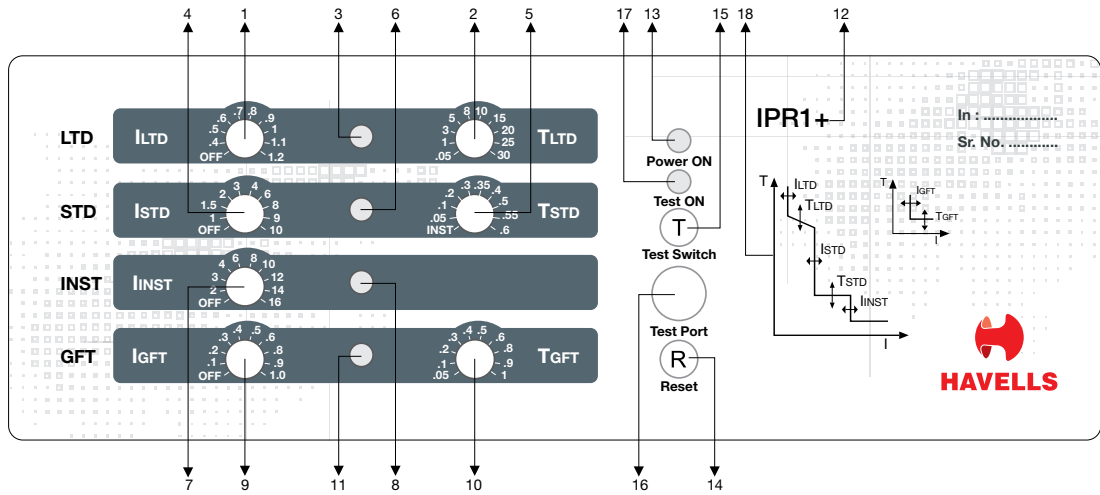
\*1 This CT is required for GFT in 3 pole ACBs for 4 Pole ACBs main CTs is used as neutral CT.

\* Please refer table A to Product price list  
To replace \$ Please refer table 1 at page-12  
To replace \*\* Please refer table 2 at page-12  
To replace # Please refer table 3 at page-12  
Door Flange (Escutcheon Frame) is supplied alongwith ACB

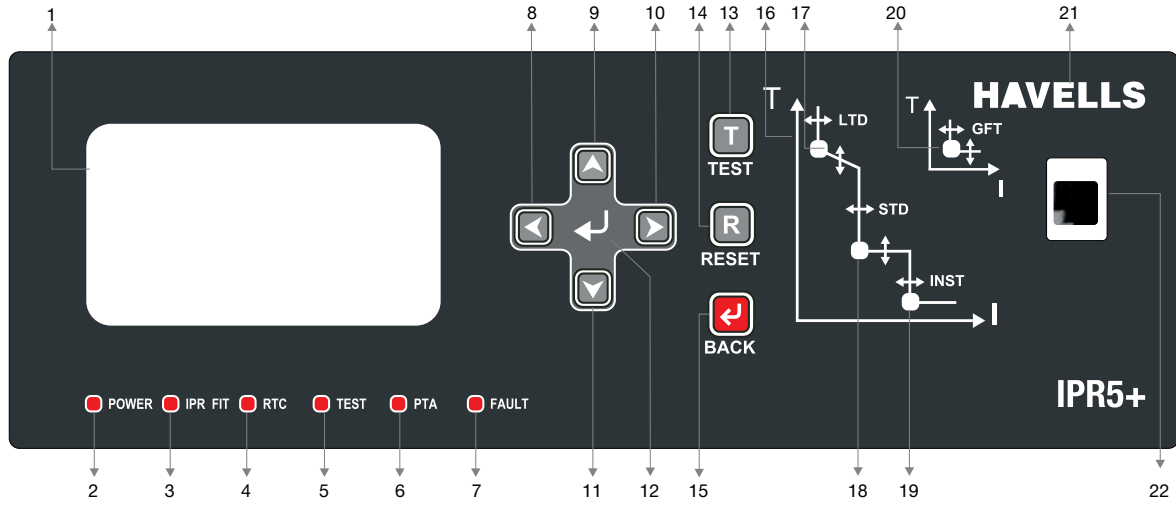
# Titania Air Circuit Breaker

(Conforms to IS/IEC:60947-2)

## Intelligent Protection Releases



Ref.	Description	Ref.	Description
1	Rotary switch for setting LTD current	10	Rotary switch for setting GFT time
2	Rotary switch for setting LTD Time	11	LED indication for GFT fault
3	LED indication for LTD fault	12	Product identification code
4	Rotary switch for setting STD current	13	LED for "Power ON"
5	Rotary switch for setting STD time	14	Reset push button
6	LED indication for STD fault	15	Test push button
7	Rotary switch for setting INST current	16	Socket for test supply
8	LED indication for INST fault	17	LED for "Test ON"
9	Rotary switch for setting GFT current	18	Time current characteristics curve



Ref.	Description	Ref.	Description
1	LCD Screen	12	Enter / Save Push Button
2	LED for "Power ON"	13	Test Push Button
3	LED for "IPR Fit"	14	Reset Push Button
4	#LED for "RTC (Ready to Close)"	15	Back Push Button
5	LED for "Test ON"	16	Time Current Characteristic Curve
6	LED for "PTA (Pre-Trip Alarm)"	17	LED Indication for LTD Fault
7	LED for "Faults"	18	LED Indication for STD Fault
8	Scroll "Left" Push Button	19	LED Indication for INST Fault
9	Scroll "Up" Push Button	20	LED Indication for GFT Fault
10	Scroll "Right" Push Button	21	Product Identification Code
11	Scroll "Down" Push Button	22	MODBUS RS-485 Communication Port

# Titania Air Circuit Breaker

(Conforms to IS/IEC:60947-2)

## New Range of Intelligent Protection Release (IPR)+



S. No.	Features	IPR E+	IPR 1+	IPR 3+	IPR 5+
	Release settings:	●	●	●	●
1	LTD	Current Setting	●	●	●
		Time Setting	●	●	●
2	STD	Current Setting	●	●	●
		Time Setting	●	●	●
3	INST	●	●	●	●
4	GFT	Current Setting	●	●	●
		Time Setting	●	●	●
5	PTA	Current Setting	●	●	●
		Time Setting	●	●	●
6	Function Blocking	●	●	●	●
7	Field Test Function	●	●	●	●
8	IPR Fit Indicator			●	●
9	Load Shedding Function			●	●
10	Reset Function	●	●	●	●
11	Thermal Memory			●	●
12	LED Indications	●	●	●	●
13	Fault History on Display			●	●
14	Making Current Release	●	●	●	●
15	Zone Selectivity			●	●
16	Circuit Breaker Fail Protection			●	●
17	Operation Counter			●	●
18	Contact Erosion Indicator			●	●
19	Ready to Close (RTC)*			●	●
20	I <sub>2</sub> t ON/OFF			●	●
21	LCD Display			●	●
22	Bar Graphs Indication			●	●
23	External Relay Card*			●	●
	Advanced Protection			●	●
24	Under Voltage Release			●	●
25	Over Voltage Release			●	●
26	Under Frequency protection			●	●
27	Over Frequency protection			●	●
28	Voltage unbalance protection			●	●
29	Phase sequence protection			●	●
30	Over Temperature Protection			●	●
	Measurement Module			●	●
31	Current (Both in 3 phase & neutral)			●	●
32	Voltage (both Line & Phase)			●	●
33	Frequency			●	●
34	Temperature (°C)			●	●
35	Maximum Demand				●
36	Apparent Power (kVA)				●
37	Real Power (kW)				●
38	Reactive Power (kVAr)				●
39	Power factor				●
40	Communication Enabled (MODBUS)				●

\*Provided on request.

Communication software provided on request.

Note: IPR+ releases do not require any external power supply for their basic protection functioning. For other functions and display to run, they require an external power supply of 12 Vdc - 24 Vdc.

# Titania+

Air Circuit Breaker

Rating	Rated Ultimate Short-circuit Breaking Capacity Ics = 100 % Icu at 415 V	Pole	MANUAL		ELECTRICAL	
			Fixed	Drawout	Fixed	Drawout
400 A - 1600 A	65 kA	4 Pole		POR		POR
2000 A - 2500 A	85 kA					
3200 A	100 kA	3 Pole / 4 Pole	Price on Request			
4000 A						
5000 A						
6300 A						
	150 kA					



## Protection Release for Titania+

Model Name	N Type	A Type	P Type	H Type
	LN	LA	LP	LH
Frequency				
50 Hz / 60 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Control Power				
External Power	-	●	●	●
Self-Power	●	●	●	●
Protection Function				
LTD (Long Time)	●	●	●	●
STD (Short Time)	●	●	●	●
INST (Instantaneous)	●	●	●	●
Pre-Trip Alarm	-	●	●	●
Ground Fault Trip	●	●	●	●
Thermal Function	●	●	●	●
Field Test	-	●	●	●
Fail Safe	●	●	●	●
Indication				
True RMS Detection Method	●	●	●	●
LED Indication per Trip Type	-	●	●	●
Fault LED	L <sup>1)</sup>	PTA, L, S/I, G	PTA, L, S/I, G	PTA, L, S/I, G
Real-Time LCD Indication of Load Rate per Phase	-	●	●	●
Measurement LCD	-	●	●	●
3 Phase current	-	●	●	●
Voltage	-	-	●	●
Power	-	-	●	●
Power factor & power quantity	-	-	●	●
Demand	-	-	●	●
Zone selective interlocking	-	●	●	●
Voltage / current harmonics (1st ~ 63 th)	-	-	-	●
3 Phase wave form	-	-	-	●
TDH, TDD	-	-	-	●
Output Contact				
Integrated Instantaneous Contact (1a)	●	-	-	-
Individual Continuous Contact (4a)	-	●	●	●
Operation				
MCR	-	○	○	○
Communication	NFC	Modbus-RTU	Modbus-RTU	Modbus-RTU
Event/Fault Recording	●	●	●	●

\* Please refer table A to Product price list  
Door Flange (Escutcheon Frame) is supplied alongwith ACB

● Standard m: Option  
1) Indicates reserve before operation during long time delay.

# ACB 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	630 A <input type="checkbox"/>	1000 A <input type="checkbox"/>	1600 A <input type="checkbox"/>	2500 A <input type="checkbox"/>	4000 A <input type="checkbox"/>	6300 A <input type="checkbox"/>	Qty.		
	800 A <input type="checkbox"/>	1250 A <input type="checkbox"/>	2000 A <input type="checkbox"/>	3200 A <input type="checkbox"/>	5000 A <input type="checkbox"/>				
Breaking Capacity Icu	Upto 2500 A	50 kA <input type="checkbox"/>	65 kA <input type="checkbox"/>	75 kA <input type="checkbox"/>					
	3200 A to 6300 A		100 kA <input type="checkbox"/>	150 kA <input type="checkbox"/>					
No. of Poles			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	Upto 2500 A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Without Release	IPR E +	IPR 1 +	IPR 3 +	IPR 5 +			
	3200 A to 6300 A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Without Release	LN	LA	LP	LH			
Setting: O/L ____ A, S/C ____ A, Inst. ____ A, GFT ____ A, CT Rating ____ A, Neutral CT <input type="checkbox"/>									
<b>Note:</b> 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"/>	Five c/o additional Aux. contacts					<input type="checkbox"/>	
	Field test unit	<input type="checkbox"/>	Shunt Trip					<input type="checkbox"/>	
	Position Indication Switch	<input type="checkbox"/>	UVT					<input type="checkbox"/>	
	Spring Charge Indication Switch	<input type="checkbox"/>	Trip Indication Switch					<input type="checkbox"/>	
	Door Interlock	<input type="checkbox"/>	Key Interlock	1 Lock+1Key				<input type="checkbox"/>	
				2 Lock+1Key				<input type="checkbox"/>	
				3 Lock+2Key				<input type="checkbox"/>	

- Note :
- Please specify the voltages for closing coil, shunt trip coil and UVT, available voltages are 24 VDC, 110 VAC / DC, 220 VAC / DC and 415 VAC and for motor available voltages are 220 VAC / DC and 110 VAC / DC.
  - For details of Protection Releases, please refer the chart of technical features.



## Moulded Case Circuit Breaker

**NEW  
LAUNCH**

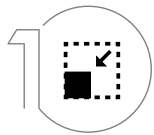
**EFFICIENCY UNLEASHED  
COMPACT, SAFE, RELIABLE**

Range : 16 A – 630 A  
No. of Poles : 3 Pole & 4 Pole  
Breaking Capacity  $I_{cs} = I_{cu} = 100\%$  upto 70 kA  
Ambient Temperature 50 °C  
Operational Voltage 690 V AC  
Insulation Voltage 1000 V AC  
Adjustable Thermal & Magnetic  
Microprocessor Based – LSIG, Advance protection  
Digital Display, Communication with Cloud connectivity



### Specifications and Certifications

IEC 60947-1 & 2  
RoHS Compliant



Compact Footprint



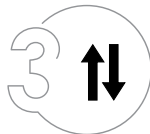
Quick Toggle, Trip free mechanism



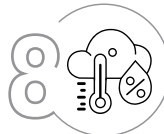
Current Limiting, outstanding single break



Positive Isolation



Line-Load Reversibility



Suitable for harsh Environments



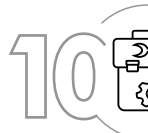
Reliable breaking performance,  $I_{cs}=100\% I_{cu}$



Trip Intelligence



Class II Insulation



Easy and Field Installable accessories

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 17**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: [sales@indersonsindia.com](mailto:sales@indersonsindia.com)



## QTRON 160

### Adjustable Thermal & Fixed Magnetic

Rated Ultimate Short-circuit Breaking Capacity Ics=100% Icu at 415 V AC (kA rms)	Rated Service Short-circuit Breaking Capacity Ics = % Icu at 415 V (kArms)	Current Rating (A)	Three Pole Cat. No	Per Unit LP (₹)	Four Pole Cat. No	Per Unit LP (₹)
36 kA	100%	16 A	IHQT1EB30016	11880.00	IHQT1EB50016	14750.00
		25 A	IHQT1EB30025		IHQT1EB50025	
		32 A	IHQT1EB30032		IHQT1EB50032	
		40 A	IHQT1EB30040		IHQT1EB50040	
		50 A	IHQT1EB30050		IHQT1EB50050	
		63 A ▲	IHQT1EB30063		IHQT1EB50063	
		80 A	IHQT1EB30080		IHQT1EB50080	
		100 A ▲	IHQT1EB30100		IHQT1EB50100	
		125 A ▲	IHQT1EB30125	13365.00	IHQT1EB50125	16435.00
		160 A ▲	IHQT1EB30160	17525.00	IHQT1EB50160	20790.00
50 kA	100%	16 A	IHQT1FB30016	15630.00	IHQT1FB50016	19145.00
		25 A	IHQT1FB30025		IHQT1FB50025	
		32 A	IHQT1FB30032		IHQT1FB50032	
		40 A	IHQT1FB30040		IHQT1FB50040	
		50 A	IHQT1FB30050		IHQT1FB50050	
		63 A	IHQT1FB30063		IHQT1FB50063	
		80 A	IHQT1FB30080		IHQT1FB50080	
		100 A	IHQT1FB30100		IHQT1FB50100	
		125 A	IHQT1FB30125	20800.00	IHQT1FB50125	24010.00
		160 A	IHQT1FB30160	23595.00	IHQT1FB50160	28255.00

▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

Note: Phase barriers are supplied along with MCCBs  
Spreader terminals are available as an accessories, refer page no. 20  
It is recommended to use spreader terminals for enhancing termination capacity



## QTRON 250

### Adjustable Thermal & Adjustable Magnetic

Rated Ultimate Short-circuit Breaking Capacity Ics=100% Icu at 415 V AC (kA rms)	Rated Service Short-circuit Breaking Capacity Ics = % Icu at 415 V (kArms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole Cat. No.	Per Unit LP (₹)
36 kA	100%	100 A	IHQT2EC30100	POR	IHQT2EC50100	POR
		125 A	IHQT2EC30125		IHQT2EC50125	
		160 A	IHQT2EC30160		IHQT2EC50160	
		200 A	IHQT2EC30200		IHQT2EC50200	
		250 A	IHQT2EC30250		IHQT2EC50250	
50 kA		100 A	IHQT2FC30100		IHQT2FC50100	
		125 A	IHQT2FC30125		IHQT2FC50125	
		160 A	IHQT2FC30160		IHQT2FC50160	
		200 A	IHQT2FC30200		IHQT2FC50200	
		250 A	IHQT2FC30250		IHQT2FC50250	

## Microprocessor MCCB - LSI

Rated Ultimate Short-circuit Breaking Capacity Ics=100% Icu at 415 V AC (kA rms)	Rated Service Short-circuit Breaking Capacity Ics = % Icu at 415 V (kArms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole Cat. No.	Per Unit LP (₹)
36 kA	100%	160 A	IHQT2EE30160	POR	IHQT2EE50160	POR
		200 A	IHQT2EE30200		IHQT2EE50200	
		250 A	IHQT2EE30250		IHQT2EE50250	
50 kA		160 A	IHQT2FE30160		IHQT2FE50160	
		200 A	IHQT2FE30200		IHQT2FE50200	
		250 A	IHQT2FE30250		IHQT2FE50250	

## Microprocessor MCCB - LSI G

Rated Ultimate Short-circuit Breaking Capacity Ics=100% Icu at 415 V AC (kA rms)	Rated Service Short-circuit Breaking Capacity Ics = % Icu at 415 V (kArms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole Cat. No.	Per Unit LP (₹)
36 kA	100%	160 A	IHQT2EF30160	POR	IHQT2EF50160	POR
		200 A	IHQT2EF30200		IHQT2EF50200	
		250 A	IHQT2EF30250		IHQT2EF50250	
50 kA		160 A	IHQT2FF30160		IHQT2FF50160	
		200 A	IHQT2FF30200		IHQT2FF50200	
		250 A	IHQT2FF30250		IHQT2FF50250	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Note: Phase barriers are supplied along with MCCBs

Spreader terminals are available as an accessories, refer page no. 20

It is recommended to use spreader terminals for enhancing termination capacity

For material availability please connect with nearest sales office.

## Accessories

Description	Cat. No	Per Unit LP (₹)
Shunt Trip - QT160 & QT250		
24 Vdc	ISSLQX0172	POR
48 Vdc	ISSLQX0173	
110 Vdc	ISSLQX0175	
110 V AC	ISSLQX0176	
230 V AC ▲	ISSLQX0171	2925.00
415 V AC	ISSLQX0177	
Under Voltage Release - QT160 & QT250		
24 Vdc	ISSLQX0180	POR
48 Vdc	ISSLQX0181	
110 Vdc	ISSLQX0182	
110 V AC	ISSLQX0183	
230 V AC ▲	ISSLQX0179	3685.00
415 V AC	ISSLQX0184	
Auxillary Contact - QT160 & QT250		
1 C/O ▲	ISSLQX0149	1105.00
2 C/O	ISSLQX0242	2120.00
Trip Alarm Contact - QT160 & QT250		
1 C/O ▲	ISSLQX0145	1105.00
Auxillary + Alarm Contact - QT160 & QT250		
1 C/O + 1 C/O ▲	ISSLQX0164	2120.00
Spreader Terminals Kit		
Spreader Terminal Kit (3nos) QT160 ▲	ISSLQX0015	885.00
Spreader Terminal Kit (4nos) QT160 ▲	ISSLQX0014	1160.00
Spreader Terminal Kit (3nos) QT250	ISSLQX0110	POR
Spreader Terminal Kit (4nos) QT250	ISSLQX0109	POR
Rotary Handle		
Direct Mounting QT160	ISSLQX0222	1545.00
Door Mounting QT160 ▲	ISSLQX0223	2085.00
Direct Mounting QT250	ISSLQX0325	POR
Door Mounting QT250	ISSLQX0326	POR
Pad Lock		
Fixed QT160	ISSLQX0209	235.00
Removable QT160	ISSLQX0211	160.00
Fixed QT250		POR
Removable QT250		POR
Terminal Shroud		
3 Pole QT160	ISSLQX0141	625.00
4 Pole QT160	ISSLQX0142	865.00
3 Pole QT250	ISSLQX0167	POR
4 Pole QT250	ISSLQX0168	POR
MCCB Enclosure		
3 Pole QT160 ▲	ISSLQX0381	2350.00
4 Pole QT160 ▲	ISSLQX0385	
3 Pole QT250		POR
4 Pole QT250		POR
Din Mounting Plant		
QT160 A	ISSLQX0208	170.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.



# A'TRON

## Moulded Case Circuit Breaker

(Conforms to IS/IEC 60947-2)

**NEW  
LAUNCH**

Range : 16 A – 160 A

No. of Poles : 3 Pole & 4 Pole

Breaking Capacity  $I_{cs} = I_{cu} = 100\%$  upto 25 kA

Ambient Temperature 40 °C

Operational Voltage 415 V AC

Insulation Voltage 1000 V AC

Imp Voltage 8 kV

Adjustable Thermal Fixed Magnetic

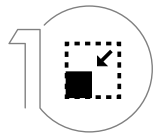
Field fittable accessories



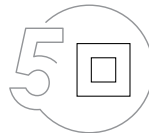
### Specifications and Certifications

IEC 60947-1 & 2

RoHS Compliant



Compact Footprint



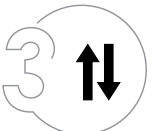
Class II Insulation



Current Limiting, outstanding single break



Quick Toggle, Trip free mechanism



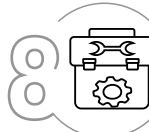
Line-Load Reversibility



Positive Isolation



Reliable breaking performance,  $I_{cs}=100\% I_{cu}$



Easy and Field Installable accessories

# ATRON

## Moulded Case Circuit Breaker

(Conforms to IS/IEC 60947-2)



## ATRON 160

### Adjustable Thermal & Fixed Magnetic

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole \$ Cat. No.	Per Unit LP (₹)
18 kA	18 kA	16 A	IHTT1IB30016	4895.00	IHTT1IB50016	6185.00
		20 A	IHTT1IB30020		IHTT1IB50020	
		25 A	IHTT1IB30025		IHTT1IB50025	
		32 A	IHTT1IB30032		IHTT1IB50032	
		40 A	IHTT1IB30040		IHTT1IB50040	
		50 A	IHTT1IB30050		IHTT1IB50050	
		63 A	IHTT1IB30063	IHTT1IB50063		
		80 A	IHTT1IBT0080#	4990.00	IHTT1IBE0080#	6525.00
		100 A	IHTT1IBT0100#	5485.00	IHTT1IBE0100#	6815.00
		125 A	IHTT1IBT0125#	6405.00	IHTT1IBE0125#	7925.00
		160 A	IHTT1IBT0160#		IHTT1IBE0160#	
		25 kA	25 kA	16 A	IHTT1DB30016	7800.00
20 A	IHTT1DB30020			IHTT1DB50020		
25 A	IHTT1DB30025			IHTT1DB50025		
32 A	IHTT1DB30032			IHTT1DB50032		
40 A	IHTT1DB30040			IHTT1DB50040		
50 A	IHTT1DB30050			IHTT1DB50050		
63 A ▲	IHTT1DB30063				IHTT1DB50063	
80 A	IHTT1DBT0080#			8100.00	IHTT1DBE0080#	9600.00
100 A ▲	IHTT1DBT0100#			9800.00	IHTT1DBE0100#	11900.00
125 A ▲	IHTT1DBT0125#			11100.00	IHTT1DBE0125#	13550.00
160 A	IHTT1DBT0160#				IHTT1DBE0160#	

### Adjustable Thermal & Fixed Magnetic

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole (wSN) Cat. No.##	Per Unit LP (₹)
18 kA	18 kA	16 A	IHTT1IB30016	4895.00	IHTT1IB40016	5780.00
		20 A	IHTT1IB30020		IHTT1IB40020	
		25 A	IHTT1IB30025		IHTT1IB40025	
		32 A	IHTT1IB30032		IHTT1IB40032	
		40 A	IHTT1IB30040		IHTT1IB40040	
		50 A	IHTT1IB30050		IHTT1IB40050	
		63 A	IHTT1IB30063		IHTT1IB40063	
		80 A	IHTT1IBT0080#	4990.00	IHTT1IBF0080#	6100.00
		100 A	IHTT1IBT0100#	5485.00	IHTT1IBF0100#	6370.00
		125 A	IHTT1IBT0125#	6405.00	IHTT1IBF0125#	7405.00
		160 A	IHTT1IBT0160#		IHTT1IBF0160#	
		25 kA	18 kA	16 A	IHTTHDB30016	5575.00
20 A	IHTTHDB30020			IHTTHDB40020		
25 A	IHTTHDB30025			IHTTHDB40025		
32 A	IHTTHDB30032			IHTTHDB40032		
40 A	IHTTHDB30040			IHTTHDB40040		
50 A	IHTTHDB30050			IHTTHDB40050		
63 A	IHTTHDB30063				IHTTHDB40063	
80 A	IHTTHDBT0080#			5700.00	IHTT1DBF0080#	7020.00
100 A	IHTTHDBT0100#			6630.00	IHTT1DBF0100#	8725.00
125 A	IHTTHDBT0125#			9435.00	IHTT1DBF0125#	11010.00
160 A	IHTTHDBT0160#				IHTT1DBF0160#	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Note: Phase barriers are supplied along with MCCBs

#Both side terminal are included

Spreader terminals are available as an accessories, refer page no. 23

It is recommended to use spreader terminals for enhancing termination capacity

For material availability please connect with nearest sales office.

##FP with Switched Neutral (unprotected neutral)

\$-Neutral pole protected

# A'TRON

## Moulded Case Circuit Breaker

(Conforms to IS/IEC 60947-2)

## ATRON 160

### Accessories

Description	Cat. No	Per Unit LP (₹)
Shunt Trip		
110 V AC	ISSLQX0176	2925.00
230 V AC ▲	ISSLQX0171	
415 V AC	ISSLQX0177	
Under Voltage Release		
110 V AC	ISSLQX0183	3685.00
230 V AC ▲	ISSLQX0179	
415 V AC	ISSLQX0184	
Auxillary Contact		
1 C/O ▲	ISSLQX0149	1105.00
2 C/O	ISSLQX0242	2120.00
Trip Alarm Contact		
1 C/O ▲	ISSLQX0145	1105.00
Auxillary + Alarm Contact		
1 C/O + 1 C/O ▲	ISSLQX0164	2120.00
Spreader Terminals kit		
Spreader Terminal Kit (3NOS) AT1 - 16 A to 50 A	ISSLTX000031	305.00
Spreader Terminal Kit (3NOS) AT1 - 63 A	ISSLEX1158	
Spreader Terminal Kit (3NOS) AT1 - 125 A to 160 A	ISSLTX000013	POR
Spreader Terminal Kit (4NOS) AT1 - 16 A to 50 A	ISSLTX000032	440.00
Spreader Terminal Kit (4NOS) AT1 - 63 A	ISSLEX1159	
Spreader Terminal Kit (4NOS) AT1 - 125 A to 160 A	ISSLTX000014	POR
Rotary Handle		
Direct Mounting	ISSLQX0222	1545.00
Door Mounting AT160 ▲	ISSLTU0211	2085.00
Pad Lock		
Fixed	ISSLQX0209	235.00
Removable	ISSLQX0211	160.00
MCCB Enclosure		
3 Pole ▲	ISSLQX0381	2350.00
4 Pole ▲	ISSLQX0385	



▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

Note: Phase barriers are supplied along with MCCBs  
#Both side terminal are included  
Spreader terminals are available as an accessories, refer page no. 23  
It is recommended to use spreader terminals for enhancing termination capacity  
For material availability please connect with nearest sales office.

# Loadline Moulded Case Circuit Breakers

(Conforms to IS/IEC:60947-2)

## GA Frame

### Fixed Thermal & Fixed Magnetic

HSN Code: 85362020

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)
10 kA	50%	63 A ▲	IHLGAAAT0063	2195.00
		80 A	IHLGAAAT0080#	2245.00
		100 A ▲	IHLGAAAT0100#	2350.00
		125 A ▲	IHLGAAAT0125#	2965.00



## G Frame

### Fixed Thermal & Fixed Magnetic

HSN Code: 85362020

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)
10 kA	100%	25 A	IHLGST0025	2485.00	IHLGSF0025	3245.00
		32 A	IHLGST0032		IHLGSF0032	
		40 A	IHLGST0040		IHLGSF0040	
		50 A	IHLGST0050		IHLGSF0050	
		63 A ▲	IHLGST0063	2485.00	IHLGSF0063	3275.00
		80 A	IHLGST0080#	2585.00	IHLGSF0080#	3905.00
		100 A ▲	IHLGST0100#		IHLGSF0100#	
		125 A ▲	IHLGST0125#	3645.00	IHLGSF0125#	4315.00
160 A ▲	IHLGST0160#	4885.00	IHLGSF0160#	6470.00		

## Single Pole MCCB

HSN Code: 85362020

Rated Ultimate Shortcircuit Breaking Capacity Icu at 240 V AC (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 240 V AC (kA rms)	Current Rating (A)	Single Pole Cat. No.	Per Unit LP (₹)
10 kA	100%	25 A	IHLGSS0025	1145.00
		32 A	IHLGSS0032	
		40 A	IHLGSS0040	
		50 A	IHLGSS0050	
		63 A	IHLGSS0063	
		80 A	IHLGSS0080#	
		100 A	IHLGSS0100#	
		125 A	IHLGSS0125#	1365.00
160 A	IHLGSS0160#	1475.00		

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Adjustable thermal (70%-100%) in TP & FP for A frame  
Adjustable thermal (80%-100%) in TP & FP for L frame  
Please refer catalogue for magnetic adjustability details  
Phase barriers are supplied along with MCCBs  
# Both side terminal are included  
Spreader terminals are available as an accessories, refer page no. 27  
##FP with Switched Neutral

# Loadline Moulded Case Circuit Breakers

(Conforms to IS/IEC:60947-2)



HSN Code: 85362020

## A Frame

### Adjustable Thermal & Fixed Magnetic

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Suitable for DC Application	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)
25 kA	75%	25 A	(Suitable for DC application 10 kA at 250 V DC, 2P in series)	IHLAST0025	7975.00	IHLASF0025	9410.00
		32 A		IHLAST0032		IHLASF0032	
		40 A		IHLAST0040		IHLASF0040	
		50 A		IHLAST0050		IHLASF0050	
		63 A		IHLAST0063		IHLASF0063	
25 kA	100%	25 A		IHLANYB30025	8215.00	IHLANYB40025	9695.00
		32 A		IHLANYB30032		IHLANYB40032	
		40 A		IHLANYB30040		IHLANYB40040	
		50 A		IHLANYB30050		IHLANYB40050	
		63 A		IHLANYB30063		IHLANYB40063	

### Adjustable Thermal & Adjustable Magnetic

HSN Code: 85362020

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Suitable for DC Application	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)	
16 kA	100%	160 A ▲	-	IHLASBC30160	9060.00	IHLASBC40160	12440.00	
		200 A ▲		IHLASBC30200	10730.00	IHLASBC40200	13585.00	
25 kA	75%	80 A	(Suitable for DC application 10 kA at 250 V DC 2P in series)	IHLASDC30080	8115.00	IHLASDC40080	9825.00	
		100 A ▲		IHLASDC30100		IHLASDC40100		
		125 A ▲		IHLASDC30125	10165.00	IHLASDC40125	12025.00	
		160 A ▲		IHLANDC30160	11145.00	IHLANDC40160	13340.00	
		200 A ▲		IHLANDC30200	11300.00	IHLANDC40200	13900.00	
250 A ▲	IHLANDC30250	12200.00		IHLANDC40250	15420.00			
25 kA	100%	80 A			IHLANYC30080	8360.00	IHLANYC40080	10115.00
		100 A			IHLANYC30100		IHLANYC40100	
		125 A			IHLANYC30125	10470.00	IHLANYC40125	12390.00
		160 A			IHLANYC30160	12260.00	IHLANYC40160	14670.00
		200 A	IHLANYC30200		12430.00	IHLANYC40200	15290.00	
250 A	IHLANYC30250	13420.00	IHLANYC40250	16960.00				

▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

Adjustable thermal (70%-100%) in TP & FP for A frame  
Adjustable thermal (80%-100%) in TP & FP for L frame  
Please refer catalogue for magnetic adjustability details  
Phase barriers are supplied along with MCCBs  
# Both side terminal are included  
Spreader terminals are available as an accessories, refer page no. 27  
##FP with Switched Neutral

# Loadline Moulded Case Circuit Breakers

(Conforms to IS/IEC:60947-2)

## L Frame

### Adjustable Thermal & Fixed Magnetic

HSN Code: 85362020

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)
36 kA	100%	200 A	IHLLSEB30200	23235.00	IHLLSEB40200	27735.00
		250 A ▲	IHLLSEB30250	26070.00	IHLLSEB40250	31145.00
		320 A	IHLLSEB30320	28035.00	IHLLSEB40320	34445.00
		400 A ▲	IHLLSEB30400		IHLLSEB40400	
		500 A ▲	IHLLSEB30500	39130.00	IHLLSEB40500	48470.00
		630 A ▲	IHLLSEB30630		IHLLSEB40630	
50 kA	100%	200 A	IHLLSFB30200	25755.00	IHLLSFB40200	30490.00
		250 A	IHLLSFB30250	27860.00	IHLLSFB40250	32960.00
		320 A	IHLLSFB30320	30105.00	IHLLSFB40320	36425.00
		400 A ▲	IHLLSFB30400		IHLLSFB40400	
		500 A	IHLLSFB30500	43885.00	IHLLSFB40500	53875.00
		630 A ▲	IHLLSFB30630		IHLLSFB40630	

### Adjustable Thermal & Adjustable Magnetic

HSN Code: 85362020

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)
36 kA	100%	200 A	IHLLSEC30200	24270.00	IHLLSEC40200	28470.00
		250 A ▲	IHLLSEC30250	26785.00	IHLLSEC40250	31820.00
		320 A	IHLLSEC30320	30765.00	IHLLSEC40320	37570.00
		400 A ▲	IHLLSEC30400		IHLLSEC40400	
		500 A	IHLLSEC30500	41875.00	IHLLSEC40500	51965.00
		630 A	IHLLSEC30630		IHLLSEC40630 ▲	
50 kA	100%	200 A	IHLLSFC30200	28930.00	IHLLSFC40200	34425.00
		250 A	IHLLSFC30250	31295.00	IHLLSFC40250	37240.00
		320 A	IHLLSFC30320	32500.00	IHLLSFC40320	38840.00
		400 A	IHLLSFC30400		IHLLSFC40400 ▲	
		500 A	IHLLSFC30500	45965.00	IHLLSFC40500	54940.00
		630 A ▲	IHLLSFC30630		IHLLSFC40630	

### Microprocessor MCCB

HSN Code: 85362020

Adjustable Overload, Short-circuit, Ground fault (4 Pole) & Fixed Instantaneous Neutral Protection (4 Pole)

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)
36 kA	100%	200 A	-	41905.00	-	50720.00
		250 A	IHLLSEE30250		IHLLSEE40250 ▲	
		320 A	IHLLSEE30320		IHLLSEE40320	
		400 A	IHLLSEE30400	46930.00	IHLLSEE40400 ▲	62655.00
		500 A	IHLLSEE30500		IHLLSEE40500	
		630 A	IHLLSEE30630	IHLLSEE40630 ▲		
50 kA	100%	200 A	IHLLSFE30200	45655.00	IHLLSFE40200	57175.00
		250 A	IHLLSFE30250		IHLLSFE40250	
		320 A	IHLLSFE30320		IHLLSFE40320	
		400 A	IHLLSFE30400	48795.00	IHLLSFE40400	64000.00
		500 A	IHLLSFE30500		IHLLSFE40500	
		630 A	IHLLSFE30630	IHLLSFE40630		

▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

Adjustable thermal (70%-100%) in TP & FP for A frame  
Adjustable thermal (80%-100%) in TP & FP for L frame  
Please refer catalogue for magnetic adjustability details  
Phase barriers are supplied along with MCCBs

# Both side terminal are included  
Spreader terminals are available as an accessories, refer page no. 27  
##FP with Switched Neutral

# Loadline Moulded Case Circuit Breakers

(Conforms to IS/IEC:60947-2)

## HIM MCCB

### Adjustable Thermal & Fixed Magnetic

HSN Code: 85389000

Rated Ultimate Shortcircuit Breaking Capacity Icu at 415 V (kA rms)	Rated Service short circuit Breaking Capacity Ics = % Icu at 415 V (kA rms)	Current Rating (A)	Three Pole Cat. No.	Per Unit LP (₹)	Four Pole ## Cat. No.	Per Unit LP (₹)
65 kA ▲	100%	800 A	IHD4HLBT0800	56430.00	IHD4HLBF0800	72795.00
85 kA	100%		IHD4HMBT0800	67470.00	IHD4HMBF0800	86790.00

## MCCB Accessories

### Spreader Terminal kit (1 side)

HSN Code: 85389000

Frame Size	Rating	Pole	FG Codes	Per Unit LP (₹)	
G Frame	80 A - 100 A	1P	ISSLGX0153	75.00	
		3P	ISSLGX0154	210.00	
		4P	ISSLGX0155	330.00	
	125 A	1P	ISSLGX0156	90.00	
		3P	ISSLGX0157	270.00	
		4P	ISSLGX0158	390.00	
	160 A	1P	ISSLGX0159	120.00	
		3P	ISSLGX0160	360.00	
		4P	ISSLGX0161	480.00	
A Frame ▲	80 A~100 A	3P	ISSLAX0121	315.00	
		4P	ISSLAX0122	430.00	
	125 A~200 A	3P	ISSLAX0124	460.00	
		4P	ISSLAX0125	625.00	
	250 A	3P	ISSLAX0127	785.00	
		4P	ISSLAX0128	1135.00	
L Frame ▲	200 A~400 A	3P	ISSLLX0065	1910.00	
		4P	ISSLLX0066	2495.00	
	500 A~630 A	3P	ISSLLX0067	2020.00	
		4P	ISSLLX0068	2705.00	
	HIM 800 ▲	800 A	3P	ISSLEX1166	4155.00
			4P	ISSLEX1167	5110.00

## Enclosures for MCCBs ▲

HSN Code: 85371000

Description	Item Code	Per Unit LP (₹)
GA & 'G' Frame TP	IHEGTP	2325.00
GA & 'G' Frame FP	IHEGFP	
'A' Frame TP	IHEATP	2675.00
'A' Frame FP	IHEAFP	
'L' Frame TP	IHELTP	10750.00
'L' Frame FP	IHELFP	
HIM 800 TP	ISSBOU1199	11005.00
HIM 800 FP	ISSBOU1200	

▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

Adjustable thermal (70%-100%) in TP & FP for A frame  
Adjustable thermal (80%-100%) in TP & FP for L frame  
Please refer catalogue for magnetic adjustability details  
Phase barriers are supplied along with MCCBs

# Both side terminal are included  
Spreader terminals are available as an accessories, refer page no. 27  
##FP with Switched Neutral

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 27**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Loadline Moulded Case Circuit Breakers

(Conforms to IS/IEC:60947-2)

## Earth Fault Relay for MCCBs

HSN Code: 85389000

MCCBs Current Range (A)	Item Code**	Per Unit LP (₹)
25 A- 100 A ▲	IHEF1100	8290.00
125 A- 200 A ▲	IHEF2200	9405.00
250 A- 400 A ▲	IHEF3400	10980.00
500 A- 800 A	IHEF4800	13690.00



- 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.

## Other Accessories

HSN Code: 85389000

Description	'G' / 'GA' Frame		'A' Frame		'L' Frame	
	Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)
<b>Shunt Trip</b>						
100 V AC - 110 V AC	ISSLEU2453	1325.00	IHLAS110	1930.00	IHLLS110	2700.00
220 V AC - 240 V AC	ISSLEU2454 ▲		IHLAS240 ▲		IHLLS240 ▲	
380 V AC - 415 V AC	ISSLEU2446 ▲		IHLAS415		IHLLS415	
<b>Under Voltage Release</b>						
110 V AC - 120 V AC	-	2005.00	IHLAU110	2960.00	IHLLU110	3675.00
220 V AC - 240V AC	ISSLEU2447 ▲		IHLAU240		IHLLU240	
380 V AC - 440 V AC	ISSLEU2448 ▲		IHLAU440		IHLLU415	
<b>Auxiliary Contact (250V AC/250Vdc) (450V AC/250Vdc)</b>						
1-Changeover	ISSLEU2450 ▲	895.00	IHLAA1CO ▲	985.00	IHLA1CO	1135.00
2-Changeover	ISSLEU2449	1430.00	IHLAA2CO	1635.00	IHLA2CO ▲	1965.00
<b>Rotary Handle</b>						
Direct Mounting	IHLGD000	1355.00	IHLAD000	1785.00		
Door Mounting	IHLGRN30 ▲	1690.00	IHLARN30 ▲	2325.00	IHLRN30 ▲	3440.00
<b>Padl Lock Device</b>						
Padlock	IHLDPG125	135.00	IHLDPA250	205.00	IHLPP000	470.00
Trip Alarm Contact (Factory Fitted)	ISSLEU2451 ▲	895.00	IHLALA1CO	985.00	IHLB000	1135.00
<b>Auxiliary Contact + Alram Switch (Factory fitted)</b>					ISSLEU1772 ▲	1965.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Adjustable thermal (70%-100%) in TP & FP for A frame

Adjustable thermal (80%-100%) in TP & FP for L frame

Please refer catalogue for magnetic adjustability details

Phase barriers are supplied along with MCCBs

# Both side terminal are included

Spreader terminals are available as an accessories, refer page no. 27

##FP with Switched Neutral

# Loadline Moulded Case Circuit Breakers

(Conforms to IS/IEC:60947-2)

HSN Code: 85389000

## Accessories for HIM Series Moulded Case Circuit Breakers

Description	HIM 800 Frame	Per Unit LP (₹)
<b>Shunt Trip</b>		
24 Vdc	ISSLEU0889	2770.00
100 Vdc -125 Vdc	ISSLEU0907	
100 V AC -120 V AC	ISSLEU0908	
200 V AC -250 V AC ▲	ISSLEU0890	
380 V AC - 415 V AC	On Request	
<b>Under Voltage Release</b>		
24 Vdc	ISSLEU0912	3935.00
100 V AC - 120 V AC	ISSLEU0914	
200 V AC - 230 V AC ▲	ISSLEU0895	
380 V AC - 415 V AC	ISSLEU0896	
<b>Auxiliary Contact (250 V AC / 250 Vdc) (450 V AC / 250 Vdc)</b>		
1-Changeover ▲	ISSLEU0793	1175.00
Alarm Switch ▲ (Left side only)	ISSLEU0796	1175.00



HSN Code: 85389000

Description	HIM 800 Frame	Per Unit LP (₹)
<b>Rotary Handle</b>		
Direct Mounting	ISSLEU0916	3445.00
Door Mounting	ISSLEU0824	4500.00
<b>Mechanical Interlock</b>		
3 Pole	ISSLEU0838	6190.00
4 Pole (R-S-T-N)	ISSLEU0842	7340.00
<b>Motor Operator</b>		
24 Vdc	ISSLEU0903	53435.00
110 V AC / Vdc	ISSLEU0923	
240 V AC / Vdc	ISSLEU0904	
Pad Lock Device	ISSLEU0845	1610.00
Auxiliary Handle	ISSLEU0846	1610.00
<b>Phase Barrier</b>		
3 Pole (Set of 2)	ISSLEU0885	750.00
4 Pole (Set of 3)	ISSLEU0886	1125.00



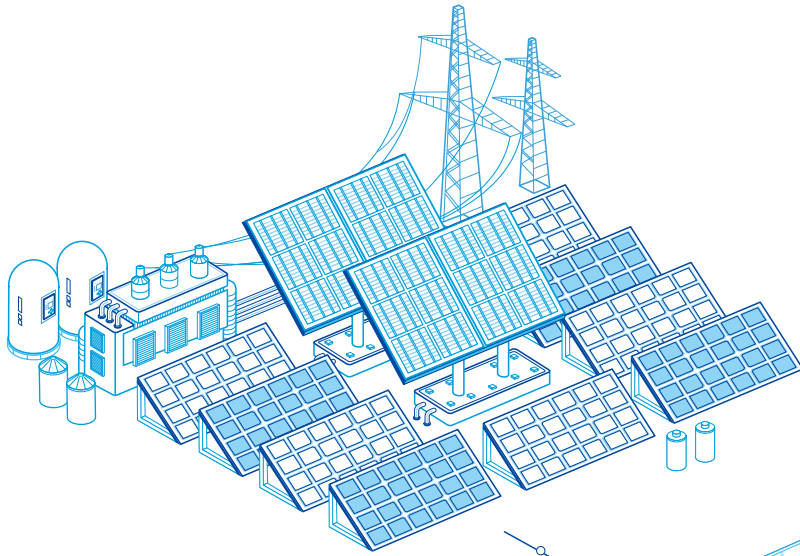
▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Adjustable thermal (70%-100%) in TP & FP for A frame  
Adjustable thermal (80%-100%) in TP & FP for L frame  
Please refer catalogue for magnetic adjustability details  
Phase barriers are supplied along with MCCBs  
# Both side terminal are included  
Spreader terminals are available as an accessories, refer page no. 27  
##FP with Switched Neutral

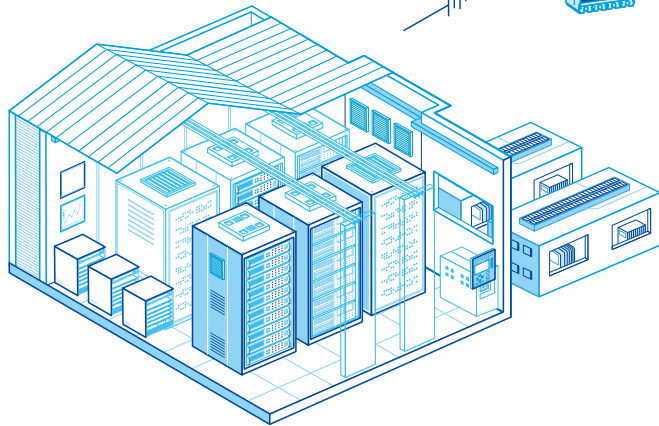
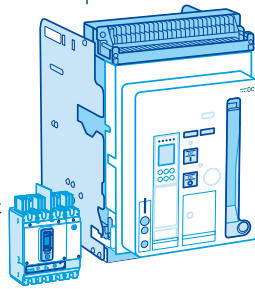
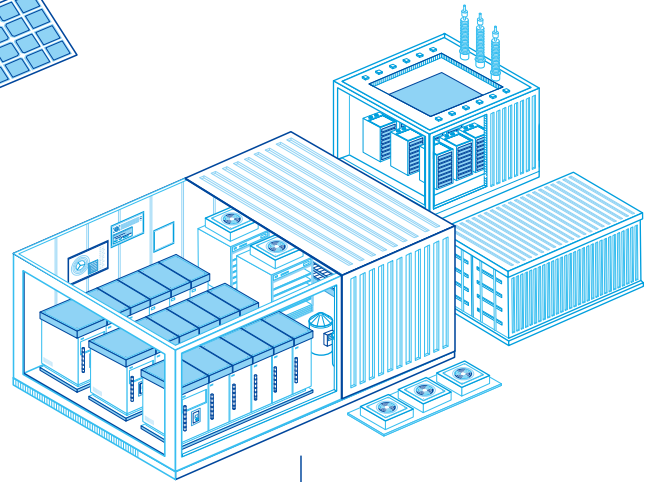
Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions **HAVELLS 29**  
INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com



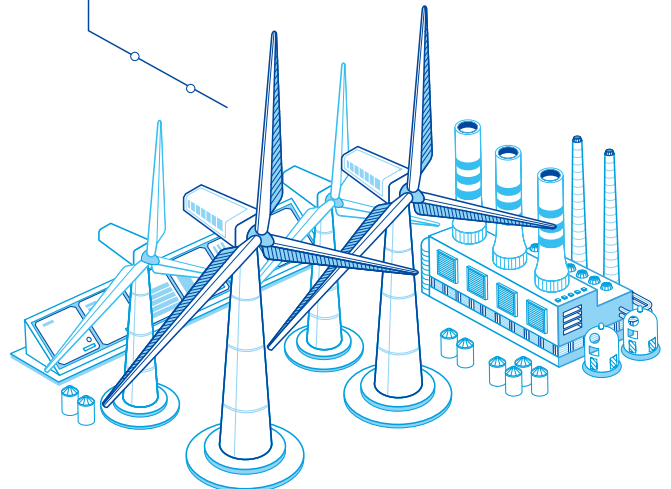
Photovoltaic Power

Energy Storage Systems



Data Center

Wind Power



# Green Energy Solutions



## High Voltage AC - Circuit Breakers

### Air Circuit Breaker

In accordance with the changing trend, ACB is equipped with various accessories and advanced level of digital protection relay. In addition, maximizes customer's range of selection and level of satisfaction with model dualization and compact size.

- Range 630 A - 4000 A
- No. of Poles : 3 Pole & 4 Pole
- Breaking Capacity 50 kA (at 1150 V)
- Rated operational voltage 1150 V
- Rated Impulse Withstand Voltage (Uimp) :12 kV
- BUS Bar Terminal can be changed to horizontal/vertical
- CB certification (UL), IEC 60947-1, 2
- CE Mark

**ZTRON** 



Frame	Rating	Pole	Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms) at 800V AC	Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms) at 1150V AC	Rated Service Short-Circuit Breaking Capacity [Ics] (...%×Icu)	Rated Short-Time withstand Current [Icw] (1s)	Per Unit LP (₹)
2000 A	630 A - 2000 A	3P & 4 P	75 kA	30 kA	100%	30 kA	POR
4000 A	630 A - 4000 A	3P & 4 P		50 kA	100%	50 kA	

### Moulded Case Circuit Breaker

- Range : 40 A - 630 A
- No. of Poles : 3 Pole & 4 Pole
- Breaking capacity : Ics = Icu = 100% upto 35 kA at 800 V AC  
Ics = Icu = 100% upto 20 kA 1000 V AC
- Rated operational voltage 1000 V AC & 800 V AC
- Rated Insulation Voltage Ui: 1000 V
- Rated Impulse Withstand Voltage Uimp: 8 kV
- Adjustable Thermal & Magnetic
- Field fittable accessories
- Conforms to IEC 60947-2

**QTRON** 



Frame	Rating	Pole	Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms) at 800V AC	Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms) at 1000V AC	Per Unit LP (₹)
100 A	40 A - 100 A	3P & 4 P	25 kA & 35 kA	15 kA & 20 kA	POR
160 A	100 A - 160 A	3P & 4 P			
250 A	125 A - 250 A	3P & 4 P			
400 A	300 A - 400 A	3P & 4 P			
630 A	500 A - 630 A	3P & 4 P			

## DC - Circuit Breakers

### Air Circuit Breaker



- Range 800 A - 4000 A
- Rated operational voltage 3 Pole - 1000 V DC  
4 Pole - 1500 V DC
- Rated Insulation Voltage  $U_i$  : 1000 V / 1500 V
- Rated Impulse Withstand Voltage  $U_{imp}$  : 12 kV
- IEC 60947-2 CB certification, IEC 60947-3 CB certification



Frame	Rating	Pole	Rated Ultimate Breaking Capacity [Icu]		Service Short-Circuit Breaking Capacity [Ics]	"Rated Short-Time Withstand Current [Icw] 1 Second		Per Unit LP (₹)
			3P at 1000 V DC	4P at 1500 V DC		3P at 1000 V DC	4P at 1500 V DC	
1600 A	800 A - 1600 A	3P & 4 P	60 kA		100%	50 kA	POR	
2500 A	1600 A - 2500 A	3P & 4 P						
3200 A	1600 A - 3200 A	3P & 4 P						
4000 A	2000 A - 4000 A	3P & 4 P						

### Moulded Case Circuit Breaker



- Range : 40 A - 800 A - DC 750 V for 3P & DC 1000 V for 4 Pole  
100 A - 630 A - DC 1500 V for 4 Pole
- Breaking capacity : Ics = Icu = 100% upto 100 kA at 1000 V DC  
Ics = Icu = 100% upto 50 kA 1500 V DC
- (Consistent performance across the entire frame)
- Rated Insulation Voltage  $U_i$ : 1000 V (at 1000 Vdc), 1500 V (at 1500 Vdc)
- Rated Impulse Withstand Voltage  $U_{imp}$ : 8 kV
- IEC60947-2, CB certification, DC 1000 V (MCCB 100 A / 160 A / 250 A / 630 A / 800 A)
- IEC 60947-2 Annex. P, CB certification



Frame	Rating	Pole	Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms) DC 1,500V for 4P (t=2ms)	Per Unit LP (₹)
100 A	100 A	4P	20 kA & 50 kA	POR
160 A	100 A - 160 A	4P		
250 A	160 A - 250 A	4P		
400 A	300 A - 400 A	4P		
630 A	500 A - 630 A	4P		

**‘G’ Frame Panel Boards, O/G TP MCCBs G-Frame**

HSN Code: 85371000

Incomer**	Outgoing* (No. of Ways)	Single Door Item Code	Per Unit LP (₹)	Double Door Item Code	Per Unit LP (₹)
250 A "AA" Frame MCCB	2	IHVG025002	43720.00	IHVG02500200	47765.00
	4	IHVG025004	54925.00	IHVG02500400	58915.00
	6	IHVG025006	62860.00	IHVG02500600	66875.00
	8	IHVG025008	68065.00	IHVG02500800	72080.00
	12	IHVG025012	84045.00	IHVG02501200	88000.00
	16	IHVG025016	98885.00	IHVG02501600	102905.00
400 A "LS" Frame MCCB	2	IHLG040002	51070.00	IHLG04000200	55810.00
	4	IHLG040004	60985.00	IHLG04000400	65425.00
	6	IHLG040006	64920.00	IHLG04000600	69075.00
	8	IHLG040008	69350.00	IHLG04000800	73445.00
	12	IHLG040012	89335.00	IHLG04001200	93525.00
	16	IHLG040016	106085.00	IHLG04001600	110405.00

Single Door



\* 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: 85371000

Incomer**	Outgoing* (No. of Ways)	Single Door Item Code	Per Unit LP (₹)	Double Door Item Code	Per Unit LP (₹)
250 A "AA" Frame MCCB	2	IHVGF25002	47060.00	IHVGF2500200	51020.00
	4	IHVGF25004	58530.00	IHVGF2500400	62530.00
	6	IHVGF25006	68915.00	IHVGF2500600	72870.00
	8	IHVGF25008	74375.00	IHVGF2500800	78375.00
	12	IHVGF25012	107890.00	IHVGF2501200	111885.00
400 A "LS" Frame MCCB	2	IHLGF40002	54970.00	IHLGF4000200	59610.00
	4	IHLGF40004	64995.00	IHLGF4000400	69420.00
	6	IHLGF40006	71170.00	IHLGF4000600	75260.00
	8	IHLGF40008	75780.00	IHLGF4000800	79870.00
	12	IHLGF40012	114665.00	IHLGF4001200	118910.00



\* 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. Outgoing spreader link for MCCB are available on request. 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’ & ‘L’ Frame MCCB

HSN Code: 85389000

Description*	Single Door Item Code	Per Unit LP (₹)	Double Door Item Code	Per Unit LP (₹)
Cable Alley I/C 250 A,O/G 3P GF 2/4Way	ISSBOU0674	16955.00	ISSBOU0690	18180.00
Cable Alley I/C 250 A,O/G 3P GF 6WAY & 4P 2/4Way	ISSBOU0675	22765.00	ISSBOU0691	24000.00
Cable Alley I/C 250 A,O/G 3P GF 8WAY & 4P 6Way	ISSBOU0676	23075.00	ISSBOU0692	25170.00
Cable Alley I/C 250 A,O/G 3P GF 12Way	ISSBOU0677	26175.00	ISSBOU0693	26905.00
Cable Alley I/C 250 A,O/G 4P GF 8Way	ISSBOU0678	26175.00	ISSBOU0694	26905.00
Cable Alley I/C 250 A,O/G 3P GF 16Way & 4P 12Way	ISSBOU0679	30835.00	ISSBOU0696	32000.00
Cable Alley I/C 400 A,O/G 3P GF 2/4Way	ISSBOU0680	20070.00	ISSBOU0697	20795.00
Cable Alley I/C 400 A,O/G 3P GF 6WAY & 4P 2/4Way	ISSBOU0681	20070.00	ISSBOU0698	20795.00
Cable Alley I/C 400 A/630 A, O/G 3P GF 8Way, 4P 6Way & A/F 6Way	ISSBOU0682	26990.00	ISSBOU0699	28295.00
Cable Alley I/C 400 A,O/G 3P GF 12Way	ISSBOU0683	31145.00	ISSBOU0700	32000.00
Cable Alley I/C 400 A/630 A, O/G 4P GF 8Way & TP A/F 8Way	ISSBOU0684	32735.00	ISSBOU0701	33455.00
Cable Alley I/C 400 A/630, O/G 4P GF 12Way, TP GF 16Way & TP A/F 12Way	ISSBOU0685	34185.00	ISSBOU0702	34910.00

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

**‘A’ Frame Panel Boards, O/G TP MCCBs**

HSN Code: 85371000

Incomer**	Outgoing* (No. of Ways)	Single Door Item Code	Per Unit LP (₹)	Double Door Item Code	Per Unit LP (₹)
400 A “LS” Frame MCCB	6	IHLA040006	88075.00	IHLA04000600	91280.00
	8	IHLA040008	94080.00	IHLA04000800	97370.00
	12	IHLA040012	121180.00	IHLA04001200	124320.00
630 A “L” Frame MCCB	6	IHLA063006	96820.00	IHLA06300600	102150.00
	8	IHLA063008	103180.00	IHLA06300800	107010.00
	12	IHLA063012	122590.00	IHLA06301200	138350.00

\* The outgoing 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.

Outgoing spreader link for MCCB are available on request.

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

**Terminal for G & A Frame Outgoing**

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
Terminal for G Frame Outgoing (Per Pole)	ISCCUPBOP151	120.00
Terminal for A Frame Outgoing (Per Pole)	ISCCUPBOP167	315.00

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

HSN Code: 85389000

Description	Single Door Item Code	Per Unit LP (₹)	Double Door Item Code	Per Unit LP (₹)
Prewire Meter Module - Analog	ISSBOU0689	19635.00	ISSBOU0706	20380.00
Meter Module - Digital	ISSBOU0711	24145.00	ISSBOU0707	25460.00

## Bare Meter Module / MCB Module / Add on Module

HSN Code: 85389000

Description	Single Door Item Code	Per Unit LP (₹)	Double Door Item Code	Per Unit LP (₹)
Meter Module - Analog Provision for Ammeter, Voltmeter - Analog with selector switch	ISSBOU0686	7565.00	ISSBOU0703	8725.00
MCB Module	ISSBOU0687		ISSBOU0704	
Add on Module	ISSBOU0688		ISSBOU0705	

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 only\*\*

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
250 A Incoming change Over switch-F1	ISSBOU0708	14365.00
400 A & 630 A Incoming change Over switch - F2	ISSBOU0709	21110.00

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

## Add on Incoming Changeover Switch with Enclosure

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
250 A Incoming change Over switch-F1	ISSBOU0712	57190.00
400 A Incoming change Over switch - F2	ISSBOU0713	75790.00
630 A Incoming change Over switch - F3	ISSBOU0714	84745.00

## Add on Incoming Automatic Changeover Switch with Enclosure

HSN Code: 85371000

Description	Item Code	Per Unit LP (₹)
100 A ATS FITT. ENCL P.SAFE	ISSBOU1128	151785.00
125 A ATS FITT. ENCL P.SAFE	ISSBOU1129	158890.00
250 A ATS FITT. ENCL P.SAFE	ISSBOU1126	221155.00

## Busbar Chambers - (Wall Mounted)

Busbar made of ETP Grade Copper

HSN Code: 85369030

Current Rating (A)	No. of	Item Code	Per Unit LP (₹)
63 A ▲	4 WAY	IHBC006304	10645.00
100 A ▲	4 WAY	IHBC010004	12770.00
200 A ▲	4 WAY	IHBC020004	15980.00
250 A ▲	4 WAY	IHBC025004	26450.00
315 A	4 WAY	IHBC031504	27630.00
400 A ▲	4 WAY	IHBC040004	29855.00



▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.



HSN Code: 85365090

Open Enclosure			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS00 ▲	40 A	IHCCFO0040	6385.00
	63 A	IHCCFO0063	6385.00
	100 A	IHCCFO0100	8555.00
	125* A	IHCPFO0125	10925.00
IS02 ▲	125 A	IHCCFO0125	12780.00
	160 A	IHCCFO0160	13695.00
	200 A	IHCCFO0200	16420.00
	250* A	IHCPFO0250	18065.00
IS04 ▲	250 A	IHCCFO0250	23760.00
	315 A	IHCCFO0315	25100.00
	400* A	IHCPFO0400	27615.00
IS06 ▲	400 A	IHCCFO0400	36270.00
	630 A	IHCCFO0630	43095.00
	800* A	IHCPFO0800	49560.00

SS Enclosure Version			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS00	40 A	IHCCFE0040	9690.00
	63 A	IHCCFE0063 ▲	9690.00
	100 A	IHCCFE0100 ▲	12150.00
	125* A	IHCPFE0125 ▲	14430.00
IS02 ▲	125 A	IHCCFE0125	17795.00
	160 A	IHCCFE0160	19420.00
	200 A	IHCCFE0200	22145.00
	250* A	IHCPFE0250	23790.00
IS04 ▲	250 A	IHCCFE0250	30790.00
	315 A	IHCCFE0315	32130.00
	400* A	IHCPFE0400	34645.00
IS06 ▲	400 A	IHCCFE0400	48180.00
	630 A	IHCCFE0630	55005.00
	800* A	IHCPFE0800	61470.00

\*Compact Design (For AC 22 A application)

**Accessories**



Castell Lock



Auxiliary Switch



Direct Handle Conversion Kit

HSN Code: 85389000

Code	Item Description	Per Unit LP (₹)
ISSCNX0218	Castell Lock Frame IS00	3020.00
ISSCNX0217	Castell Lock Frame IS02 / IS04 / IS06	3020.00
ISCELQOX0074	Auxiliary Switch Assembly 2NO 2NC Frame IS00	740.00
ISCELQOX0076	Auxiliary Switch Assembly 2NO 2NC Frame IS02, IS04 & IS06	965.00
ISSCNX0235	Direct Handle IS00	595.00
ISSCNX0221	Direct Handle IS02-IS04-IS06	1735.00



HSN Code: 85371000

Open Enclosure			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHLFNAO125 ▲	48845.00
	160 A	IHLFNAO160 ▲	49750.00
	200 A	IHLFNAO200 ▲	52465.00
	250* A	IHLFNAO25D ▲	54100.00
IS04	250 A	IHLFNAO250 ▲	71060.00
	315 A	IHLFNAO315 ▲	72390.00
	400* A	IHLFNAO40D ▲	74895.00
IS06	400 A	IHLFNAO400 ▲	90285.00
	630 A	IHLFNAO630 ▲	97080.00
	800* A	IHLFNAO80D ▲	103510.00

SS Enclosure Version			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHLFNAE125	57270.00
	160 A	IHLFNAE160	58180.00
	200 A	IHLFNAE200	60900.00
	250* A	IHLFNAE25D	62535.00
IS04	250 A	IHLFNAE250	80680.00
	315 A	IHLFNAE315	82015.00
	400* A	IHLFNAE40D	84515.00
IS06	400 A	IHLFNAE400	105375.00
	630 A	IHLFNAE630	112170.00
	800* A	IHLFNAE80D	118605.00

\*Compact Design (For AC 22 A application)

▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

## Accessories



**MTSE to RTSE Conversion Kit**



**RTSE Enclosure (with IP 32)**



**RTSE Enclosure (with IP 43)\***

HSN Code: 85389000

	Code	Item Description	Per Unit LP (₹)
<b>MTSE to RTSE Conversion Kit</b>	ISSCNX0214	MOTOR MODULE FRAME IS02	36550.00
	ISSCNX0213	MOTOR MODULE FRAME IS04	47840.00
	ISSCNX0212	MOTOR MODULE FRAME IS06	54825.00
<b>RTSE Enclosure (with IP 32)</b>	ISSCNX0204	Enclosure Frame IS02	POR
	ISSCNX0205	Enclosure Frame IS04	
	ISSCNX0206	Enclosure Frame IS06	
<b>RTSE Enclosure (with IP 43)</b>	ISSCNX0256	Enclosure Frame IS02	POR
	ISSCNX0257	Enclosure Frame IS04	
	ISSCNX0258	Enclosure Frame IS06	

\*Available on request

## Instaprime Automatic Transfer Switch ▲

Four Pole, AC-32B / AC - 33B\*, 50 Hz, 415 V  
Automatic/Manual Range

HSN Code: 85371000

Rating (A)	Open Execution Item Code	Per Unit LP (₹)	Cat. no. 4 pole (Close Execution)	Per Unit LP (₹)
63 A	IHRFBAO063	28745.00	IHRFBAE063	31060.00
100 A	IHRFBAO100	31195.00	IHRFBAE100	33500.00
125 A	IHRFBAO125	35335.00	IHRFBAE125	37635.00

\* Up to 63 A



## Instaline Automatic Transfer Switch ▲

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

HSN Code: 85371000

Rating A	Item Code 4P	Per Unit LP (₹)	Item Code 4P	Per Unit LP (₹)
	Open Execution		With Enclosure	
100 A	IHYFCDO100	60310.00	IHYFCDE100	73700.00
125 A	IHYFCDO125	64700.00	IHYFCDE125	77455.00
160 A	IHYFCDO160	71410.00	IHYFCDE160	85185.00
200 A	IHYFCDO200	86275.00	IHYFCDE200	99400.00
250 A	IHYFCDO250	96760.00	IHYFCDE250	110270.00
315 A	IHYFCDO315	101155.00	IHYFCDE315	114275.00
400 A	IHYFCDO400	115795.00	IHYFCDE400	138645.00
630 A	IHYFCDO630	148590.00	IHYFCDE630	170985.00



## ATS Wire Harness

HSN Code: 85389000

Item Code	Per Unit LP (₹)
ISSYAX0201 ▲	3790.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Euroload (ON-Load) Changeover Switch (4 Pole) I-0-II

(Conforms to IS/IEC:60947-3)

HSN Code: 85365090

Frame Size	Rating (A)	Open Execution Item Code	Per Unit LP (₹)	SS Enclosure Item Code	Per Unit LP (₹)
00	040 A	IHCNFO0040	6445.00	IHCNFE0040	9690.00
00	063 A	IHCNFO0063 ▲	6445.00	IHCNFE0063 ▲	9690.00
00	100 A	IHCNFO0100 ▲	8640.00	IHCNFE0100 ▲	12150.00
0	125 A	IHCNFO0125 ▲	12900.00	IHCNFE0125 ▲	17795.00
0	160 A	IHCNFO0160 ▲	13820.00	IHCNFE0160 ▲	19420.00
0	200 A	IHCNFO0200 ▲	16580.00	IHCNFE0200 ▲	22145.00
1	250 A	IHCNFO0250 ▲	23985.00	IHCNFE0250 ▲	30790.00
1	320 A	IHCNFO0320 ▲	25340.00	IHCNFE0320 ▲	32130.00
2	400 A	IHCNFO0400 ▲	36620.00	IHCNFE0400 ▲	48180.00
2	630 A	IHCNFO0630 ▲	43510.00	IHCNFE0630 ▲	55005.00
3	800 A	IHCNFO0800 ▲	64510.00	IHCNFE0800 ▲	81945.00
4	1000 A	IHCNFO1000 ▲	109870.00	IHCNFE1000 ▲	149355.00
4	1250 A	IHCNFO1250 ▲	145865.00	IHCNFE1250	199945.00
4	1600 A	IHCNFO1600 ▲	173715.00	IHCNFE1600	268505.00
5	2000 A	IHCNFO2000	269135.00	IHCNFE2000	353780.00
5	2500 A	IHCNFO2500	356960.00	IHCNFE2500	451670.00
5	3150 A	IHCNFO3150	488700.00	IHCNFE3150	611895.00



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 By Pass Switch

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

Four Pole, 415 V

HSN Code: 85365090

Frame Size	Current Rating (A)	Open Execution Item Code	Per Unit LP (₹)
00	063 A	IHCBFO0063 ▲	11565.00
00	100 A	IHCBFO0100 ▲	13635.00
0	125 A	IHCBFO0125 ▲	17375.00
0	160 A	IHCBFO0160 ▲	20695.00
0	200 A	IHCBFO0200 ▲	22255.00
1	250 A	IHCBFO0250 ▲	32200.00
1	320 A	IHCBFO0320 ▲	34020.00
2	400 A	IHCBFO0400 ▲	49170.00
2	630 A	IHCBFO0630 ▲	58415.00
3	800 A	IHCBFO0800 ▲	87440.00
3	1000 A	IHCBFO1000 ▲	148910.00
3	1600 A	IHCBFO1600 ▲	235460.00

## Accessories

HSN Code: 85389000

Aux. Contact	Item Code	Per Unit LP (₹)
1 NO. 1 NC.	IHCNFAC1CO	435.00
2 NO. 2 NC.	IHCNFAC2CO	585.00



▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

## Euroload Switch Disconnecter

(Conforms to IS/IEC:60947-3)

Three Pole, 415 V

HSN Code: 85365090

Frame Size	Current Rating A	Open Execution Item Code	Per Unit LP (₹)	SS Enclosure Item Code	Per Unit LP (₹)
0	80 A	IHCSTO0080	2175.00	IHCSTE0080	3380.00
0	100 A	IHCSTO0100	3290.00	IHCSTE0100	4680.00
0	125 A	IHCSTO0125	4385.00	IHCSTE0125	5690.00
0	160 A	IHCSTO0160	5215.00	IHCSTE0160	7195.00
0	200 A	IHCSTO0200 ▲	5930.00	IHCSTE0200	7345.00
1	250 A	IHCSTO0250 ▲	7405.00	IHCSTE0250	9430.00
1	320 A	IHCSTO0320 ▲	8130.00	IHCSTE0320	10340.00
1	400 A	IHCSTO0400 ▲	11710.00	IHCSTE0400	14105.00



## Euroload Switch Disconnecter

Four Pole, 415 V

HSN Code: 85365090

Frame Size	Current Rating A	Open Execution Item Code	Per Unit LP (₹)	SS Enclosure Item Code	Per Unit LP (₹)
00	40 A	IHCSFO0040 ▲	1590.00	IHCSFE0040	2605.00
00	63 A	IHCSFO0063 ▲	1795.00	IHCSFE0063	2845.00
00	100 A	IHCSFO0100 ▲	4290.00	IHCSFE0100	5245.00
0	125 A	IHCSFO0125 ▲	4570.00	IHCSFE0125	5780.00
0	160 A	IHCSFO0160 ▲	5470.00	IHCSFE0160	6680.00
0	200 A	IHCSFO0200 ▲	6605.00	IHCSFE0200	7975.00
1	250 A	IHCSFO0250 ▲	8275.00	IHCSFE0250	10730.00
1	320 A	IHCSFO0320	9075.00	IHCSFE0320	11395.00
2	400 A	IHCSFO0400 ▲	12585.00	IHCSFE0400	15730.00
2	630 A	IHCSFO0630 ▲	14410.00	IHCSFE0630	17760.00
3	800 A	IHCSFO0800 ▲	21485.00	IHCSFE0800	25345.00
4	1000 A	IHCSFO1000 ▲	32500.00	IHCSFE1000	46045.00
4	1250 A	IHCSFO1250 ▲	48815.00	IHCSFE1250	55390.00
4	1600 A	IHCSFO1600 ▲	67170.00	IHCSFE1600	74480.00
5	2000 A	IHCSFO2000	76980.00	IHCSFE2000	98060.00
5	2500 A	IHCSFO2500	99895.00	IHCSFE2500	128355.00
5	3150 A	IHCSFO3150	140915.00	IHCSFE3150	182425.00



▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Kompact *plus* Switch Disconnecter Fuse

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

Switch Disconnecter Fuse (Panel Mounting Cubicle Type) - AC-23 A, 50 Hz, 415 V  
Kompact Plus



HSN Code: 85371000

Rating A	Pole	Type of Fuse	With / Without Fuse	Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Suitable Fuse
				Open Execution		In Sheet Steel Encl.		
32 A	TPN	Bolted Type	With 3 Fuses	IHKDTF4032 ▲	2955.00	IHKDTW4032 ▲	4765.00	IHHTIA0032
63 A				IHKDTF4063 ▲	4070.00	IHKDTW4063 ▲	5895.00	IHHTSS0063
100 A				IHKDTF4100 ▲	8240.00	IHKDTW4100 ▲	9950.00	IHHTSD0100
125 A				IHKDTF4125 ▲	10440.00	IHKDTW4125 ▲	12225.00	IHHTSD0125
32 A		Bolted Type	Without Fuse	IHKDTO4032 ▲	2575.00	IHKDTE4032	4385.00	IHHTIA0032
63 A				IHKDTO4063 ▲	3600.00	IHKDTE4063	5425.00	IHHTSS0063
100 A				IHKDTO4100 ▲	7265.00	IHKDTE4100	8985.00	IHHTSD0100
125 A				IHKDTO4125	9475.00	IHKDTE4125	11260.00	IHHTSD0125
32 A	FP	Bolted Type	With 4 Fuses	IHKDFF4032	4040.00	IHKDFW4032	5970.00	IHHTIA0032
63 A				IHKDFF4063	5155.00	IHKDFW4063	7090.00	IHHTSS0063
100 A				IHKDFF4100	10335.00	IHKDFW4100	12275.00	IHHTSD0100
125 A				IHKDFF4125	12460.00	IHKDFW4125	14480.00	IHHTSD0125
32 A		Bolted Type	Without Fuse	IHKDFO4032	3535.00	IHKDFE4032	5465.00	IHHTIA0032
63 A				IHKDFO4063	4530.00	IHKDFE4063	6465.00	IHHTSS0063
100 A				IHKDFO4100	9030.00	IHKDFE4100	10980.00	IHHTSD0100
125 A				IHKDFO4125	11170.00	IHKDFE4125	13195.00	IHHTSD0125
32 A	TPN	DIN Type	With 3 Fuses	IHKFTF4032	4215.00	IHKFTW4032	5635.00	IHHCD00032
63 A				IHKFTF4063 ▲	5360.00	IHKFTW4063 ▲	6930.00	IHHCD00063
100 A				IHKFTF4100	9165.00	IHKFTW4100 ▲	10935.00	IHHCD00100
125 A				IHKFTF4125 ▲	11605.00	IHKFTW4125 ▲	13380.00	IHHCD00125
32 A		DIN Type	Without Fuse	IHKFTO4032 ▲	2785.00	IHKFTE4032	4205.00	IHHCD00032
63 A				IHKFTO4063 ▲	3875.00	IHKFTE4063	5450.00	IHHCD00063
100 A				IHKFTO4100	7535.00	IHKFTE4100	9305.00	IHHCD00100
125 A				IHKFTO4125	9955.00	IHKFTE4125	11740.00	IHHCD00125
32 A	FP	DIN Type	With 4 Fuses	IHKFFF4032	5735.00	IHKFFW4032	7250.00	IHHCD00032
63 A				IHKFFF4063	6920.00	IHKFFW4063	8580.00	IHHCD00063
100 A				IHKFFF4100	11855.00	IHKFFW4100	13725.00	IHHCD00100
125 A				IHKFFF4125	12990.00	IHKFFW4125	14825.00	IHHCD00125
32 A		DIN Type	Without Fuse	IHKFFO4032	3820.00	IHKFFE4032	5335.00	IHHCD00032
63 A				IHKFFO4063	4940.00	IHKFFE4063	6605.00	IHHCD00063
100 A				IHKFFO4100	9685.00	IHKFFE4100	11565.00	IHHCD00100
125 A				IHKFFO4125	10795.00	IHKFFE4125	12630.00	IHHCD00125

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS** 41

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Kompact *plus* Switch Disconnecter Fuse Unit

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

Switch Disconnecter Fuse (Panel Mounting Cubicle Type) - AC-23 A, 50 Hz, 415 V  
Kompact EZO



TPN

HSN Code: 85371000

Rating A	Pole	Type of Fuse		Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Suitable Fuse		
				Open Execution		In Sheet Steel Encl.				
160 A	TPN	Bolted Type	With 3 Fuses	IHFSTF4160 ▲	11760.00	IHFSTW4160 ▲	15180.00	IHHTSF0160		
200 A				IHFSTF4200 ▲	15300.00	IHFSTW4200 ▲	18640.00	IHHTSF0200		
250 A				IHFSTF4250 ▲	18010.00	IHFSTW4250 ▲	21235.00	IHHTSF0250		
320 A				IHFSTF4320 ▲	21965.00	IHFSTW4320 ▲	25740.00	IHHTSK0315		
400 A				IHFSTF4400 ▲	27735.00	IHFSTW4400 ▲	31310.00	IHHTSMF400		
630 A				IHFSTF4630 ▲	46345.00	IHFSTW4630 ▲	49985.00	IHHTLM0630		
800 A				IHFSTF4800 ▲	54750.00	IHFSTW4800 ▲	58350.00	IHHTLM0800		
160 A				Bolted Type	Without Fuse	IHFSTO4160 ▲	10270.00	IHFSTE4160	13690.00	IHHTSF0160
200 A		IHFSTO4200	13790.00			IHFSTE4200	17135.00	IHHTSF0200		
250 A		IHFSTO4250	16385.00			IHFSTE4250	19615.00	IHHTSF0250		
320 A		IHFSTO4320	19875.00			IHFSTE4320	23650.00	IHHTSK0315		
400 A		IHFSTO4400	23810.00			IHFSTE4400	27385.00	IHHTSMF400		
630 A		IHFSTO4630	38380.00			IHFSTE4630	42015.00	IHHTLM0630		
800 A		IHFSTO4800	45780.00			IHFSTE4800	49375.00	IHHTLM0800		
160 A		DIN Type	With 3 Fuses			IHFKTF4160	13000.00	IHFKTW4160 ▲	16150.00	IHHCD01160
200 A				IHFKTF4200 ▲	15870.00	IHFKTW4200 ▲	19740.00	IHHCD01200		
250 A				IHFKTF4250 ▲	18605.00	IHFKTW4250 ▲	22265.00	IHHCD01250		
320 A				IHFKTF4320 ▲	23070.00	IHFKTW4320 ▲	26600.00	IHHCD02315		
400 A				IHFKTF4400 ▲	27440.00	IHFKTW4400 ▲	30955.00	IHHCD02400		
630 A				IHFKTF4630 ▲	44060.00	IHFKTW4630 ▲	47830.00	IHHCD03630		
160 A				DIN Type	Without Fuse	IHFKTO4160	10615.00	IHFKTE4160	13765.00	IHHCD01160
200 A						IHFKTO4200 ▲	13495.00	IHFKTE4200	17355.00	IHHCD01200
250 A		IHFKTO4250	15925.00			IHFKTE4250	19585.00	IHHCD01250		
320 A		IHFKTO4320 ▲	19620.00			IHFKTE4320	23145.00	IHHCD02315		
400 A	IHFKTO4400	23730.00	IHFKTE4400			27235.00	IHHCD02400			
630 A	IHFKTO4630	38205.00	IHFKTE4630			41980.00	IHHCD03630			
800 A	IHFKTO4800	41840.00	IHFKTE4800			46620.00	IHHCD03800			

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Kompact *plus* Switch Disconnecter Fuse

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

Four Pole

HSN Code: 85371000

Rating A	Pole	Type of Fuse		Item Code	Per Unit LP (₹)	Item Code	Per Unit LP (₹)	Suitable Fuse
				Open Execution		In Sheet Steel Encl.		
160 A	FP	Bolted Type	With 4 Fuses	IHFSFF4160	16125.00	IHFSFW4160	19415.00	IHHTSF0160
200 A				IHFSFF4200	18945.00	IHFSFW4200	22060.00	IHHTSF0200
250 A				IHFSFF4250	21715.00	IHFSFW4250	24705.00	IHHTSF0250
320 A				IHFSFF4320	24850.00	IHFSFW4320	28225.00	IHHTSK0315
400 A				IHFSFF4400	30510.00	IHFSFW4400	34440.00	IHHTSMF400
630 A				IHFSFF4630	50985.00	IHFSFW4630	54985.00	IHHTLM0630
800 A				IHFSFF4800	60225.00	IHFSFW4800	64180.00	IHHTLM0800
160 A		Bolted Type	Without Fuse	IHFSFO4160	14145.00	IHFSFE4160	17440.00	IHHTSF0160
200 A				IHFSFO4200	16945.00	IHFSFE4200	20065.00	IHHTSF0200
250 A				IHFSFO4250	19545.00	IHFSFE4250	22540.00	IHHTSF0250
320 A				IHFSFO4320	22065.00	IHFSFE4320	26015.00	IHHTSK0315
400 A				IHFSFO4400	26190.00	IHFSFE4400	30125.00	IHHTSMF400
630 A				IHFSFO4630	42210.00	IHFSFE4630	46210.00	IHHTLM0630
800 A				IHFSFO4800	50355.00	IHFSFE4800	54310.00	IHHTLM0800
160 A		DIN Type	With 4 Fuses	IHFKFF4160	15330.00	IHFKFW4160	18265.00	IHHCD01160
200 A				IHFKFF4200	19305.00	IHFKFW4200	22250.00	IHHCD01200
250 A				IHFKFF4250	20470.00	IHFKFW4250	24485.00	IHHCD01250
320 A				IHFKFF4320	25380.00	IHFKFW4320	29265.00	IHHCD02315
400 A				IHFKFF4400	30190.00	IHFKFW4400	34045.00	IHHCD02400
630 A				IHFKFF4630	51270.00	IHFKFW4630	54675.00	IHHCD03630
800 A				IHFKFF4800	50800.00	IHFKFW4800	55540.00	IHHCD03800
160 A		DIN Type	Without Fuse	IHFKFO4160	12150.00	IHFKFE4160	15095.00	IHHCD01160
200 A				IHFKFO4200	16130.00	IHFKFE4200	19075.00	IHHCD01200
250 A				IHFKFO4250	17515.00	IHFKFE4250	21535.00	IHHCD01250
320 A	IHFKFO4320			21585.00	IHFKFE4320	25470.00	IHHCD02315	
400 A	IHFKFO4400			26105.00	IHFKFE4400	29955.00	IHHCD02400	
630 A	IHFKFO4630			43475.00	IHFKFE4630	46870.00	IHHCD03630	
800 A	IHFKFO4800			50800.00	IHFKFE4800	55540.00	IHHCD03800	

## Accessories

**NEW**

HSN Code: 85389000

Cat Code	Description	Per Unit LP (₹)
ISSCBX0001	1 NO-NC SWITCH FOR SDF (32A-125A)	625.00
ISSCBX0002	1 NO-NC SWITCH FOR SDF (160A-800A)	745.00
ISSCBX0003	2 NO-NC SWITCH FOR SDF (32A-125A)	1125.00
ISSCBX0004	2 NO-NC SWITCH FOR SDF 160A-800A)	1245.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

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**HAVELLS** 43

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# HiBreak HBC Fuse Link

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

HSN Code: 85361020

## DIN Fuse Bases (Fixed Type)

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

Rated A	Item Code	Type	Fuse Type	Per Unit LP (₹)	STD Packing No. of unit/s
160 A	IHUC00O160 ▲	Open Type Fuse Base	CD-00	510.00	6 N



## i Base - DIN Fuse Bases (Fixed Type)

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

HSN Code: 85361020

Rated A	Item Code	Type	Fuse Type	Per Unit LP (₹)	STD Packing No. of unit/s
250 A	IHIC01O250 ▲	Open Type Fuse Base	CD-1	1015.00	3 N
400 A	IHIC02O400 ▲	Open Type Fuse Base	CD-2	1630.00	3 N
630 A	IHIC03O630 ▲	Open Type Fuse Base	CD-3	1900.00	3 N
800 A	IHIC03O800	Open Type Fuse Base	CD-3	1900.00	3 N



▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# HiBreak HBC Fuse Link

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



Bolted Type HRC Fuse - 80 kA, 415 V



DIN Type HRC Fuse - 80 kA, 415 V

IS Size	Tag Type	BS Type	Rating (A)	Item Code	Per Unit LP (₹)	STD Packing No. of unit/s
<b>HSN Code: 85361010</b>						
F-1	Offset	NS	2 A	IHHNS00002	85.00	20 N
			4 A	IHHNS00004		
			6 A	IHHNS00006		
			10 A	IHHNS00010 ▲		
<b>HSN Code: 85361020</b>						
F-1	Offset	NS	16 A	IHHNS00016	85.00	20 N
			20 A	IHHNS00020	95.00	
			25 A	IHHNS00025		
			32 A	IHHNS00032		
A-2	Offset	TIA	16 A	IHHTIA0016	120.00	10 N
			20 A	IHHTIA0020		
			25 A	IHHTIA0025		
			32 A	IHHTIA0032 ▲		
A-3	Offset	TSS	40 A	IHHTSS0040	150.00	10 N
			50 A	IHHTSS0050		
			63 A	IHHTSS0063 ▲		
A-4	Offset	TSD	80 A	IHHTSD0080	325.00	10 N
			100 A	IHHTSD0100 ▲		
			125 A	IHHTSD0125 ▲		
B-1	Central	TSDC	80 A	IHHTSDC080	330.00	10 N
			100 A	IHHTSDC100		
			125 A	IHHTSDC125		
B-2	Central	TSF	160 A	IHHTSF0160	480.00	10 N
			200 A	IHHTSF0200 ▲	520.00	
			250 A	IHHTSF0250 ▲		
B-3	Central	TSK	315 A	IHHTSK0315 ▲	685.00	3 N
B-4	Central	TSMF	400 A	IHHTSMF400 ▲	1280.00	3 N
C-1	Central	TSMS	400 A	IHHTSMS400		3 N
C-2	Central	TTS	400 A	IHHTTS0400	1460.00	1 N
C-2	Central	TLM	630 A	IHHTLM0630 ▲	2600.00	1 N
C-2	Central	TLM	800 A	IHHTLM0800	2900.00	1 N

IS Size	Rating (A)	Item Code	Per Unit LP (₹)	STD Packing No. of unit/s
<b>HSN Code: 85361020</b>				
000	32 A	IHHCD11032	410.00	3 N
	63 A	IHHCD11063	420.00	
	100 A	IHHCD11100	450.00	
<b>HSN Code: 85361010</b>				
00	6 A	IHHCD00006	460.00	3 N
	10 A	IHHCD00010		
<b>HSN Code: 85361020</b>				
00	16 A	IHHCD00016	460.00	3 N
	25 A	IHHCD00025 ▲		
	32 A	IHHCD00032 ▲		
	40 A	IHHCD00040 ▲		
	50 A	IHHCD00050	480.00	
	63 A	IHHCD00063 ▲		
	80 A	IHHCD00080	525.00	
	100 A	IHHCD00100 ▲		
	125 A	IHHCD00125 ▲	540.00	
	160 A	IHHCD00160 ▲	565.00	
01	100 A	IHHCD01100 ▲	770.00	3 N
	125 A	IHHCD01125		
	160 A	IHHCD01160 ▲	780.00	
	200 A	IHHCD01200 ▲		
	250 A	IHHCD01250 ▲	875.00	
02	250 A	IHHCD02250	1130.00	1 N
	315 A	IHHCD02315 ▲		
	350 A	IHHCD02350	1215.00	
	400 A	IHHCD02400 ▲		
03	500 A	IHHCD03500 ▲	1870.00	1 N
	630 A	IHHCD03630 ▲	1910.00	
	800 A	IHHCD03800	2360.00	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

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**HAVELLS 45**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Havells Global Series Magnetic Contactors, Overload Relays & MPCBs Designed for demanding applications & Tropical conditions



# HGS - Trusted Global Range

## Contactors, Overload Relays & MPCBs

Motor Control Solutions for higher Safety, Reliability & Performance



HGS - 3 Pole Contactor  
Ratings - 9 A to 800 A (AC-3)



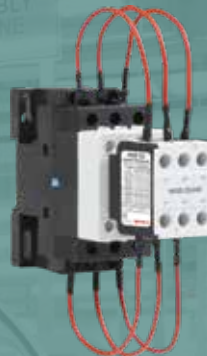
HGS - 4 Pole Contactor  
Ratings - 16 A to 60 A (AC-1)



HGS - 2 Pole Contactor  
Ratings - 9 A to 100 A (AC-3)



HGST - Thermal Overload Relay  
Ratings - 0.12 A to 800 A



Capacitor Duty Contactor  
Ratings - 3 kVAR to 66 kVAR



HGSCD - 3 Pole DC Contactor  
Ratings - 9 A to 105 A (AC-3)



HGSDR - Thermal Overload Relay  
Ratings - 0.28 A to 112 A



HGS - R Contactor  
Ratings - 9 A to 100 A



Motor Protection  
Circuit Breaker  
Ratings - 0.1 A to 32 A



Motor Protection  
Circuit Breaker  
Ratings - 0.1 A to 63 A

# Contactor HGS 9 - 800 AF



- 3 Pole Power Contactors
- Wide band Operating Coils
- Finger proof IP 20 terminals
- Suitable for AC-4 (Inching & Plugging, e.g. Crane Duty) and other critical application
- CE Marking & Compliance to IS/IEC 60947-4-1
- High Electrical and Mechanical Durability with Higher operating frequency (Operations / Hour)
- Electrical Durability Curves available
- Low VA Burden coils with Class H Insulation
- Dust free covers
- Terminal Barrier and Shrouds
- In-built Auxiliary Contacts
- DIN Channel Mounting upto 100 A (Frame 1 to 4)

## Contactor (HGS)



## Overload Relay (HGST)



## HGS Rated Current Rated Operational Voltage HGST Setting Current

	18 AF	40 AF	65 AF	100 AF
HGS Rated Current	9 A, 12 A, 18 A, 22 A	25 A, 32 A, 40 A	50 A, 65 A	75 A, 85 A, 100 A
Rated Operational Voltage	690 V	690 V	690 V	690 V
HGST Setting Current	0.12 A - 18 A	7 A - 40 A	7 A - 65 A	17 A - 100 A

# Thermal Overload Relays HGST 9 - 800 AF

- Overload Relays
- Trip Class - 10 A
- Automatic Reset / Manual Reset
- Test Button for emergency stop
- Phase loss Protection
- Accelerated tripping on single phasing condition
- IP20 terminals
- Sealable Protection Cover



**150 AF**

**265 AF**

**500 AF**

**800 AF**

115 A, 130 A, 150 A  
1000 V

185 A, 225 A, 265 A  
1000 V

300 A, 400 A, 500 A  
1000 V

630 A, 800 A  
1000 V

48 A - 150 A

48 A - 265 A

90 A - 500 A

378 A - 800 A

# Magnetic Contactor

## 3 Pole Power Contactors



### Features:

- AC Coil up to Frame-4 and AC/DC Universal coil with SMART ECM (Electronic Control Module) in-built for Frame-5 to Frame-8
- Conforms to IS / IEC 60947-4-1
- Finger proof IP20 terminals
- Low VA Burden Wide operating band coils with Class H Insulation

HSN Code: 85369090

Frame Size	AC-3 Duty Rating at 415 V, 50 Hz	AC-1 Duty Rating at 415 V, 50 Hz	Power Poles	In-built Auxilliary Contacts		Type	Item Code	Per Unit LP (₹)
	I <sub>e</sub> A	I <sub>th</sub> A		NO	NC			
1	9 A ▲	25 A	3	1	0	HGS 9	IHPHA009110*	1230.00
	9 A ▲	25 A	3	0	1	HGS 9	IHPHA009101*	1230.00
	12 A ▲	30 A	3	1	0	HGS 12	IHPHA012110*	1430.00
	12 A ▲	30 A	3	0	1	HGS 12	IHPHA012101*	1430.00
	18 A ▲	40 A	3	1	0	HGS 18	IHPHA018110*	1655.00
	18 A ▲	40 A	3	0	1	HGS 18	IHPHA018101*	1655.00
	22 A ▲	40 A	3	1	0	HGS 22	IHPHA022110*	1785.00
	22 A	40 A	3	0	1	HGS 22	IHPHA022101*	1785.00
2	25 A ▲	45 A	3	1	0	HGS 25	IHPHA025210*	2305.00
	25 A ▲	45 A	3	0	1	HGS 25	IHPHA025201*	2305.00
	32 A ▲	55 A	3	1	0	HGS 32	IHPHA032210*	4380.00
	32 A ▲	55 A	3	0	1	HGS 32	IHPHA032201*	4380.00
	40 A ▲	60 A	3	1	0	HGS 40	IHPHA040210*	6525.00
	40 A ▲	60 A	3	0	1	HGS 40	IHPHA040201*	6525.00
3	50 A ▲	70 A	3	2	2	HGS 50	IHPHA050300*	8815.00
	65 A ▲	85 A	3	2	2	HGS 65	IHPHA065300*	11040.00
4	75 A ▲	110 A	3	2	2	HGS 75	IHPHA075400*	13215.00
	85 A ▲	125 A	3	2	2	HGS 85	IHPHA085400*	15575.00
	100 A ▲	135 A	3	2	2	HGS 100	IHPHA100400*	22455.00
5	115 A	160 A	3	2	2	HGS 115	IHPHA115500*	28210.00
	130 A	180 A	3	2	2	HGS 130	IHPHA130500*	29045.00
	150 A	210 A	3	2	2	HGS 150	IHPHA150500*	35400.00
6	185 A	275 A	3	2	2	HGS 185	IHPHA185600*	40940.00
	225 A	315 A	3	2	2	HGS 225	IHPHA225600*	44500.00
	265 A	350 A	3	2	2	HGS 265	IHPHA265600*	50090.00
7	300 A	400 A	3	2	2	HGS 300	IHPHA300700*	61510.00
	400 A	500 A	3	2	2	HGS 400	IHPHA400700*	76915.00
	500 A	550 A	3	2	2	HGS 500	IHPHA500700*	110800.00
8	630 A	750 A	3	2	2	HGS 630	IHPHA630800*	172855.00
	800 A	900 A	3	2	2	HGS 800	IHPHA800800*	278890.00

### Coil Voltage Selection Table

\*To complete the Item Code suffix the coil voltage from the coil voltage table  
 Note: 1. For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table on page no. 54  
 2. Standard Spare coil are available on request on page no 54

ECM\* - Electronic Control Module  
 Note : For other coil voltages, Contact to nearest branch  
 To avoid Coil burning due to Neutral Flooding conditions, either use Wide band Coils or make use of 415 V Coils

Frame Size	AC Coil Codes for Nominal Voltage at 50/60 Hz		
	H	Wide Band Coils	
		S	W
1	110 V	150 V - 300 V ▲	260 V - 440 V ▲
2	110 V	150 V - 300 V ▲	260 V - 440 V ▲
3	110 V		260 V - 440 V ▲
4	110 V		260 V - 440 V ▲
	AC/DC Universal Coil with in-built ECM* Module 240 V N	AC Coil Y	AC Coil with in-built ECM* Module 415 V T
5, 6, 7	100 V AC -240 V AC & 110 V DC -220 V DC	240 V AC	-
8	200 V AC -240 V AC & 200 V DC -220 V DC	240 V AC	-

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

50 HAVELLS Effective from 11th March, 2025

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INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Magnetic Contactor

## 4 Pole Power Contactors with AC Coil



### Features:

- AC-1 Ratings up to 60 A
- Conforms to IS / IEC 60947-4-1
- Common Accessories with HGS Range
- Finger proof IP20 terminals
- Completely Shield for dusty atmosphere
- Low VA Burden Wide operating band coils with Class H Insulation

HSN Code: 85369090

Frame Size	AC 1 Duty	Power Poles	Item Code	Per Unit LP (₹)	Power Poles	Item Code	Per Unit LP (₹)
1	16 A	4NO	IHPHC016100*	1470.00	2NO + 2NC	IHPHC016122*	1620.00
	20 A	4NO	IHPHC020100*	1505.00	2NO + 2NC	IHPHC020122*	1655.00
	25 A	4NO	IHPHC025100*	1625.00	2NO + 2NC	IHPHC025122*	1840.00
	32 A ▲	4NO	IHPHC032100*	1665.00	2NO + 2NC	IHPHC032122*	1905.00
	40 A	4NO	IHPHC040100*	2510.00	2NO + 2NC	IHPHC040122*	2710.00
2	50 A	4NO	IHPHC050200*	3275.00	2NO + 2NC	IHPHC050222*	3670.00
	60 A ▲	4NO	IHPHC060200*	6245.00	2NO + 2NC	IHPHC060222*	7005.00

\*To complete the Item Code suffix the coil voltage from the coil voltage table  
Note: Coil S & W is not available for - 2 NO + 2 NC

# Magnetic Contactor

## Aux Contactor / Control Relay - HGS Series with AC Coil

### Features:

- Common Accessories with HGS Range
- Suitable for use upto 690 V AC
- Compliance to IEC 60947-5-1
- High Thermal current of  $I_{th} = 16 A$
- Finger proof IP20 terminals
- Low VA Burden Wide operating band coils with Class H Insulation



HSN Code: 85369090

Frame size	$I_{th}$	Contact arrangement		Type	Item Code	Per Unit LP (₹) with AC Coil
		NO	NC			
1	16 A	2	2	HGR 22	IHHAC22*	1185.00
		3	1	HGR 31	IHHAC31*	
		4	0	HGR 40	IHHAC40*	
		0	4	HGR 04	IHHAC04*	
		1	3	HGR 13	IHHAC13*	

\*To complete the Item Code suffix the coil voltage from the coil voltage table  
Note: Control relay is not available in wide band

# Magnetic Contactor

## HGS 2 Pole Contactor with AC Coil



### Features:

- Common Accessories with HGS Range
- Compliance to IEC 60947-4-1

HSN Code: 85369090

Frame Size	AC-3 Duty Rating at 415 V, 50 Hz	AC-1 Duty Rating at 415 V, 50 Hz	Power Poles	In-built Auxilliary Contacts		Item Code	Per Unit LP (₹)
	$I_e$ A	$I_{th}$ A		NO	NC		
1	9 A	25 A	2	0	0	IHPHF009100*	925.00
	12 A	30 A	2	0	0	IHPHF012100*	1075.00
	18 A ▲	40 A	2	0	0	IHPHF018100*	1245.00
	22 A	40 A	2	0	0	IHPHF022100*	1340.00
2	25 A	45 A	2	0	0	IHPHF025200*	1455.00
	32 A	55 A	2	0	0	IHPHF032200*	3065.00
	40 A	60 A	2	0	0	IHPHF040200*	4570.00
3	50 A	70 A	2	0	0	IHPHF050300*	5730.00
	65 A ▲	85 A	2	0	0	IHPHF065300*	8305.00
4	75 A	110 A	2	0	0	IHPHF075400*	9515.00
	85 A	125 A	2	0	0	IHPHF085400*	11550.00
	100 A	135 A	2	0	0	IHPHF100400*	14850.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

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**HAVELLS 51**

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# Magnetic Contactor

## 3 Pole HGS - R Contactor



### Features:

- 3Pole AC3 duty contactor 9 A - 100 A
- Specially Designed for AC1/AC3 Duty contactor.
- Extra Wide Band Coil with Class H insulation.
- Common accessories for both HGS contactor & HGS R contactor.
- In built Auxiliary 2NO+2NC contact in Frame 3 & 4.
- Suitable for ring terminal in all ratings.
- Finger proof IP 20 terminals.

HSN Code: 85369090

Frame Size	AC-3 Duty Rating at 415 V, 50 Hz	AC-1 Duty Rating at 415 V, 50 Hz	Power Poles	In-built Auxilliary Contacts		Type	Item Code	Per Unit LP (₹)
	I <sub>e</sub> A	I <sub>th</sub> A		NO	NC			
1	9 A ▲	25 A	3	1	0	HGSR 9	IHPRA009110*	Price on Request
	9 A	25 A	3	0	1	HGSR 9	IHPRA009101*	
	12 A ▲	30 A	3	1	0	HGSR 12	IHPRA012110*	
	12 A	30 A	3	0	1	HGSR 12	IHPRA012101*	
	18 A ▲	40 A	3	1	0	HGSR 18	IHPRA018110*	
	18 A	40 A	3	0	1	HGSR 18	IHPRA018101*	
	22 A ▲	40 A	3	1	0	HGSR 22	IHPRA022110*	
	22 A	40 A	3	0	1	HGSR 22	IHPRA022101*	
2	25 A ▲	45 A	3	1	0	HGSR 25	IHPRA025210*	
	25 A	45 A	3	0	1	HGSR 25	IHPRA025201*	
	32 A ▲	55 A	3	1	0	HGSR 32	IHPRA032210*	
	32 A	55 A	3	0	1	HGSR 32	IHPRA032201*	
	40 A ▲	60 A	3	1	0	HGSR 40	IHPRA040210*	
	40 A	60 A	3	0	1	HGSR 40	IHPRA040201*	
3	50 A ▲	70 A	3	2	2	HGSR 50	IHPRA050322*	
	65 A ▲	85 A	3	2	2	HGSR 65	IHPRA065322*	
4	75 A ▲	110 A	3	2	2	HGSR 75	IHPRA075422*	
	85 A ▲	125 A	3	2	2	HGSR 85	IHPRA085422*	
	100 A ▲	135 A	3	2	2	HGSR 100	IHPRA100422*	

### Coil Voltage Selection Table

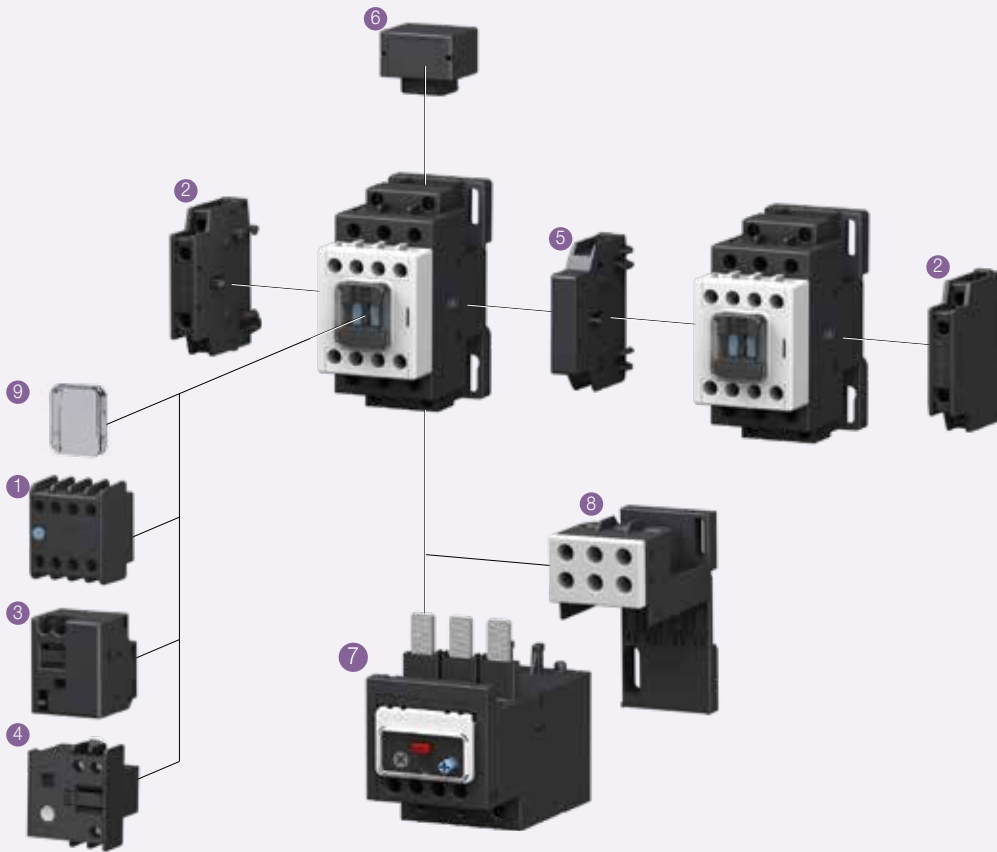
\*To complete the Item Code suffix the coil voltage from the coil voltage table  
 Note: 1. For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table on page no. 54  
 2. Standard Spare coil are available on request on page no 54

Note : For other coil voltages, Contact to nearest branch  
 To avoid Coil burning due to Neutral Floaring conditions, use Wide band Coils

Frame Size	AC Coil Codes for Nominal Voltage at 50/60 Hz			
	H	N	Wide Band Coils	
			S	W
1	110 V	240 V	150 V - 300 V ▲	260 V - 440 V ▲
2	110 V	240 V	150 V - 300 V ▲	260 V - 440 V ▲
3	110 V	240 V	-	260 V - 440 V ▲
4	110 V	240 V	-	260 V - 440 V ▲

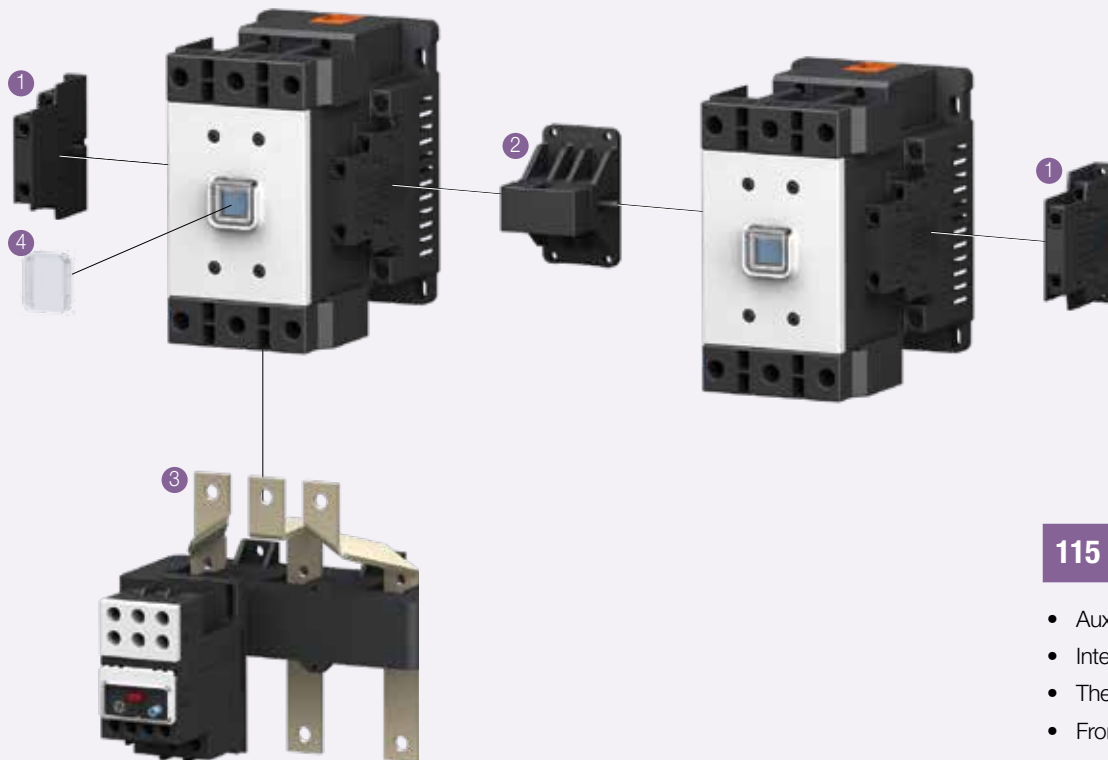
▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.



## 9 - 100 AF

- Auxiliary Contact Block (Front Side) HGS TB
- Auxiliary Contact Block (Left/Right Side) HGS SB
- Mechanical Latching Block HGS LB 100
- Timer HGS ET
- Interlock Unit HGS IU
- Surge Absorber HGS RC/CD
- Thermal Overload Relay HGST
- Separate Mounting Base HGSTMB
- Front Safety Cover



## 115 - 800 AF

- Auxiliary Contact Block HGS SB
- Interlock Unit HGS IU
- Thermal Overload Relay HGST
- Front Safety Cover



HSN Code: 85389000

Description	Configuraton	Suitable for	Item Code	Per Unit LP ( )
Aux Contact Block (Side Mounting)	1NO + 1NC ▲	HGS 9-HGS 40 (For all contactors in Frame-1 and Frame-2)	ISSPCU1969	770.00
		HGS50-HGS 100 (For all contactors in Frame-3 and Frame-4)	ISSPCU1970	
		HGS115- HGS 800	ISSPCU1971	910.00
Aux Contact Block (Top Mounting)	2NC	HGS9-HGS100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1961	795.00
	1NO + 1NC ▲		ISSPCU1962	
	2NO		ISSPCU1963	
	4NC		ISSPCU1964	
	1NO + 3NC		ISSPCU1965	
	2NO + 2NC ▲		ISSPCU1966	
	3NO + 1NC		ISSPCU1967	
	4NO		ISSPCU1968	
Mechanical Interlock Unit		HGS 9-HGS 40 ▲ (For all contactors in Frame-1 and Frame-2)	ISSPCU1972	1040.00
		HGS50-HGS 100 (For all contactors in Frame-3 and Frame-4)	ISSPCU1973	2440.00
		HGS115- HGS 265	ISSPCU1974	4320.00
		HGS 300- HGS 800	ISSPCU1975	4895.00
Mechanical Latching Block (Top Mounting)	220 V AC	HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1976	2450.00
Electronic Timer (Top Mounting)		HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1977	3310.00
Surge Absorber* (Surge Suppressor Type RC)	220 V - 240 V AC	HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1984	2090.00

# - One contactor of Frame-1 and another contactor of Frame-2 can also be interlocked using this Mechanical Interlock Unit.

\*Contact to nearest branch - ● For other voltages in RC type surge suppressors ● For other type of surge suppressors

Spare Coils - HGS Contactors (Refer Frame Sizes in Respective Contactor Table)

HSN Code: 85389000

Suitable for	Coil Type	Voltage	Item Code	Per Unit LP ( )
For all Frame-1 Contactors (HGS 9 to HGS 22)	AC	110 V	ISSPCU1987	690.00
		150 V - 300 V ▲	ISSPCU2215	
		260 V - 440 V ▲	ISSPCU2134	
For all Frame-2 Contactors (HGS 25-HGS 40)	AC	110 V	ISSPCU1995	690.00
		150 V - 300 V ▲	ISSPCU2216	
		260 V - 440 V ▲	ISSPCU2135	
For all Frame-3 Contactors (HGS 50-HGS 65)	AC	110 V	ISSPCU2003	2235.00
		260 V - 440 V ▲	ISSPCU2136	
For all Frame-4 Contactors (HGS 75-HGS 100)	AC	110 V	ISSPCU2011	2575.00
		260 V - 440 V ▲	ISSPCU2137	
For Frame-5 Contactors (HGS 115-HGS 150)	AC/DC Universal Coil	100 V AC - 240 V AC 110 Vdc - 220 Vdc	ISSPCU1979	6960.00
	AC	380 V AC - 450 V AC	ISSPCU2479	
For Frame-6 Contactors (HGS 185-HGS 265)	AC/DC Universal Coil	100 V AC - 240 V AC 110 Vdc - 220 Vdc	ISSPCU1980	9855.00
	AC	380 V AC - 450 V AC	ISSPCU2312	
For Frame-7 Contactors (HGS 300-HGS 500)	AC/DC Universal Coil	100 V AC - 240 V AC 110 Vdc - 220 Vdc	ISSPCU1981	12815.00
	AC	380 V AC - 450 V AC	ISSPCU2103	
For Frame-8 Contactors (HGS 630-HGS 800)	AC/DC Universal	110 V AC - 127 V AC 100 Vdc - 110 Vdc	ISSPCU2480	26270.00
		200 V AC - 240 V AC 200 Vdc - 220 Vdc	ISSPCU1982	
	AC	380 V AC - 450 V AC	ISSPCU2104	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Thermal Over Load Relay (Auto/ Manual Reset) - HGST Series



## Features:

- Range : 0.12 A – 800 A available in 8 Frames, Trip class - 10 A
- Conforms to IS/IEC 60947-4-1
- Protection against overload & phase loss protection
- Auto / manual reset facility
- Contactor mounting / Individual mounting with adaptor
- Transparent protection cover for dust application

HSN Code: 85364900

Relay Fr. size	Relay Range (A)	Suitable for Contactor Frame size	Type	Item Code	Per Unit LP (₹)	
1	0.12 A - 0.18 A	HGS 9 HGS 12 HGS 18 HGS 22	HGST 18	IHHR13CA	2095.00	
	0.18 A - 0.26 A			IHHR13CB		
	0.25 A - 0.35 A			IHHR13CC		
	0.34 A - 0.5 A			IHHR13CD		
	0.5 A - 0.7 A			IHHR13CE		
	0.6 A - 0.9 A			IHHR13CF		
	0.8 A - 1.2 A			IHHR13CG		
	1.1 A - 1.6 A ▲			IHHR13CH		
	1.5 A - 2.1 A ▲			IHHR13CJ		
	2 A - 3 A ▲			IHHR13CZ		
	2.8 A - 4.2 A ▲			IHHR13CK		
	3 A - 5 A ▲			IHHR13CL		
	4 A - 6 A ▲			IHHR13CM		
	5.6 A - 8 A ▲			IHHR13CN		
6 A - 9 A ▲	IHHR13CP	2130.00				
8 A - 12 A ▲	IHHR13CR	2340.00				
12 A - 18 A ▲	IHHR13CT	2340.00				
2	7 A - 10.0 A	HGS 25 HGS 32 HGS 40	HGST 40	IHHR23CQ	2340.00	
	8 A - 12.0 A			IHHR23CR		
	12 A - 18 A ▲			IHHR23CT		
	15 A - 22 A ▲			IHHR23CU		
	17 A - 25 A ▲			IHHR23CV		2615.00
	22 A - 32 A ▲			IHHR23CW		3305.00
	28 A - 40 A			IHHR23CX		3430.00
3	7 A - 10.0 A	HGS 50 HGS 65	HGST 65	IHHR33CQ	4095.00	
	8 A - 12.0 A			IHHR33CR		
	12 A - 18 A			IHHR33CT		
	15 A - 22 A			IHHR33CU		
	17 A - 25 A			IHHR33CV		
	22 A - 32 A			IHHR33CW		
	28 A - 40 A			IHHR33CX		4850.00
	34 A - 50 A ▲			IHHR33CY		
	45 A - 65 A			IHHR33C1		5775.00

Relay Fr. size	Relay Range (A)	Suitable for Contactor Frame size	Type	Item Code	Per Unit LP (₹)
4	17 A - 25 A	HGS 75 HGS 85 HGS 100	HGST 100	IHHR43CV	4755.00
	22 A - 32 A			IHHR43CW	
	28 A - 40 A			IHHR43CX	
	34 A - 50 A			IHHR43CY	
	45 A - 65 A			IHHR43C1	6015.00
	52 A - 75 A			IHHR43C2	
	59 A - 85 A			IHHR43C3	
	70 A - 100 A			IHHR43C4	
5	48 A - 80 A	HGS 115 HGS 130 HGS 150	HGST 150	IHHR53C5	10035.00
	69 A - 115 A			IHHR53C6	
	78 A - 130 A			IHHR53C7	
	90 A - 150 A			IHHR53C8	
6	48 A - 80 A	HGS 185 HGS 225 HGS 265	HGST 265	IHHR63C5	10780.00
	69 A - 115 A			IHHR63C6	
	78 A - 130 A			IHHR63C7	
	90 A - 150 A			IHHR63C8	
	111 A - 185 A			IHHR63C9	
	135 A - 225 A			IHHR63C11	
7	159 A - 265 A	HGS 300 HGS 400 HGS 500	HGST 500	IHHR63C12	13100.00
	90 A - 150 A			IHHR73C8	
	111 A - 185 A			IHHR73C9	
	135 A - 225 A			IHHR73C11	
	159 A - 265 A			IHHR73C12	
	180 A - 300 A			IHHR73C13	
	240 A - 400 A			IHHR73C14	
	300 A - 500 A			IHHR73C15	
8	378 A - 630 A	HGS 630 HGS 800	HGST 800	IHHR83C16	35870.00
	480 A - 800 A			IHHR83C17	

## Relay Adapter

HSN Code: 85389000

Suitable for	Item code	Per Unit LP (₹)
For all Frame-1 Contactors (HGS 9 to HGS 22)	ISSPCU2681	385.00
For all Frame-2 Contactors (HGS 25 to HGS 40)	ISSPCU2682	520.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

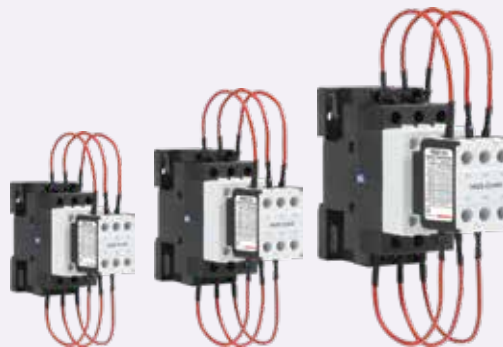
List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 55**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Magnetic Contactor

## Capacitor Duty Contactor



### Features:

- Range : 3 kVAr to 66 kVAr
- De-latching Type design of Resistor Switching Block
- Low VA Burden Wide operating band coils with Class H Insulation
- Common accessories with HGS Range
- High Operating Frequency - 240 Operations per hour
- Handle high inrush current capability
- Utilization category AC-6b
- Finger proof IP20 terminals

HSN Code: 85369090

Frame Size	kVAr Rating AC-6b		Inst. Aux. Contact		Item Code	Per Unit LP (₹)
	415 V / 440 V		NO	NC		
1	3 kVAr ▲		1	0	IHPHE003110*	2700.00
	3 kVAr		0	1	IHPHE003101*	2700.00
	5 kVAr ▲		1	0	IHPHE005110*	2835.00
	5 kVAr		0	1	IHPHE005101*	2835.00
	10 kVAr ▲		1	0	IHPHE010110*	3430.00
	10 kVAr		0	1	IHPHE010101*	3430.00
	12.5 kVAr		1	0	IHPHE12X110*	3875.00
	12.5 kVAr		0	1	IHPHE12X101*	3875.00
	15 kVAr ▲		1	0	IHPHE015110*	4745.00
	15 kVAr		0	1	IHPHE015101*	4745.00
2	20 kVAr ▲		1	0	IHPHE020210*	5215.00
	20 kVAr		0	1	IHPHE020201*	5215.00
	25 kVAr ▲		1	0	IHPHE025210*	5945.00
	25 kVAr		0	1	IHPHE025201*	5945.00
	33.3 kVAr ▲		1	0	IHPHE33X210*	8620.00
	33.3 kVAr		0	1	IHPHE33X201*	8620.00
3	33.3 kVAr		1	1	IHPHE33X311*	10395.00
	40 kVAr		2	2	IHPHE040322*	15975.00
4	50 kVAr ▲		2	2	IHPHE050422*	16620.00
	66 kVAr ▲		2	2	IHPHE066422*	19500.00

\*To complete the Item Code suffix the coil voltage from the coil voltage table  
33.3 kVAr contactor in Frame-3 can be used where higher terminal capacity is required.

## Coil Voltage Selection Table

3 kVAr - 66 kVAr AC Coil

Product	110 V AC	240 V AC	415 V AC	150 V AC - 300 V AC	260 V AC - 440 V AC
HGS Capacitor Duty Contactor (3 kVAr - 66 kVAr)	H	N ▲	T	S ▲	W

▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

#For Power Quality Solution  
kindly refer to page 83 & above



Scan for HGS Catalogue



Scan for Type-2  
Co-ordination Charts



# Electronic Motor Protection Relay

**NEW**

## Range

- Wide Current Setting-0.5 A - 60 A (Single Relay)

## Product Feature

- Control Voltage – 100 V AC - 240 V AC / DC (50 Hz - 60 Hz) (Universal Coil)
- User Convenience
- Microprocessor based Control (32-bit ARM Core MCU)
- Wide Frequency Range (30 Hz to 200 Hz)
- Run-time alert function
- IEC 60947-4-1 Standard
- Communication with RS-485 Port/Modbus (Optional)
- Inbuilt display / Door mounting display



## Display Information

- Real-time load current, Real-time load rate, parameters during operation, total running hours.

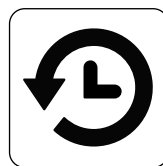


## Protection Function

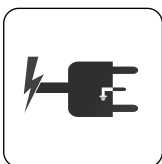
- Over-current & Under- Current protection
- Phase Failure
- Phase Unbalancing
- Earth Leakage
- Reverse Phase
- Instantaneous & Ground Fault Protection



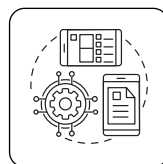
Communication with RS-485 Port



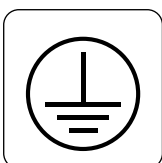
Run-time alert function



Earth Leakage



User Convenience



Ground Fault Protection



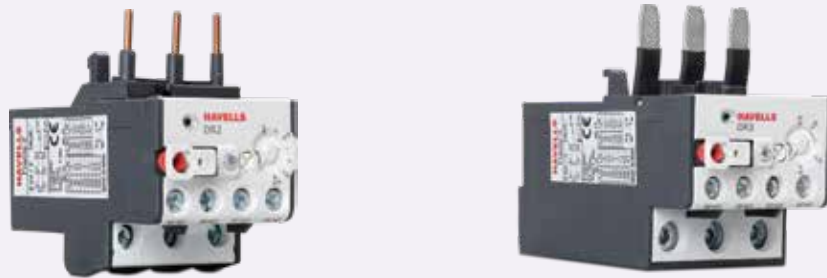
Wide range frequency

- Compact size, Four (4) frames rating upto 105 A.
- IP20 guarded terminals prevent accidental contact with live parts.
- IEC, CE marking & Compliance to IS/IEC 60947-4-1
- 4 Terminal Coils on all DC Coil Contactors for control application flexibility.
- 50 A to 105 A DC operated devices feature electronic coil control.
- Thermal Overload Relays direct mount onto HGSCD Series 9 A - 25 A Contactors, reducing installation time and Space.
- 35mm DIN rail mounting for all the contactors from 9 A to 105 A.
- Combination head terminal screws on 50 A through 105 A contactors

**DC Contactor (HGSCD)**



**Thermal Overload Relay (HGSDR)**



**HGSCD  
Rated Current  
Rated Operational  
Voltage**

---

**HGSDR  
Setting Current**

**1 AF**

9 A, 12 A, 18 A, 25 A  
690 V

0.28 A - 32 A

**2 AF**

32 A, 40 A  
690 V

25 A - 40 A

# HGSDR / MR

- 5 Frame sizes current rating up to 112 A suitable for DC / Mini Contactor.
- Overload Relays include integral connection to auxiliary and coil terminations for ease of wiring during installation, when installed on HGSCD Series.
- These Overload Relays share the same great features and benefits of the larger frame sizes.
- Trip Class 10 for reliable and accurate protection against overload conditions.
- Single phase sensitivity to protect motors against damaging phase loss conditions.
- Direct mounting to all contactors.
- IP20 guarded terminals prevent accidental contact with live parts.
- Stop button for convenient and economical control circuit wiring.

## DC Contactor (HGSCD)



## Thermal Overload Relay (HGSDR)



## HGSCD Rated Current Rated Operational Voltage

---

## HGSDR Setting Current

3 AF

50 A / 65 A, 80 A  
690 V / 1000 V

32 A - 70 A

4 AF

95 A, 105 A  
1000 V

63 A - 112 A

### 3 Pole DC Contactors - HGSCD



- Compact size, Four (4) frames rating from 9 A to 105 A
- Finger proof IP 20 terminals
- IEC, CE marking & Compliance to IS/IEC 60947-4-1
- 4 Terminal Coils on all DC Coil Contactors for control application flexibility
- 50 A to 105 A DC operated devices feature electronic coil control

HSN Code: 85369090

Frame Size	AC-3 Duty Rating	AC-1 Duty Rating	Power Poles	In - built Aux contacts		Type	Code	Description	Per Unit LP (₹)
	Ie A	Ith A		NC	NO				
1	9 A	25 A	3	1	0	HGSCD 9	IHPDB009101*	Frame-1 9A 3P1NC DC Contactor	2550.00
	9 A	25 A	3	0	1	HGSCD 9	IHPDB009110*	Frame-1 9A 3P1NO DC Contactor	2550.00
	12 A	25 A	3	1	0	HGSCD 12	IHPDB012101*	Frame-1 12A 3P1NC DC Contactor	2830.00
	12 A	25 A	3	0	1	HGSCD 12	IHPDB012110*	Frame-1 12A 3P1NO DC Contactor	2830.00
	18 A	45 A	3	1	0	HGSCD 18	IHPDB018101*	Frame-1 18A 3P1NC DC Contactor	3225.00
	18 A	45 A	3	0	1	HGSCD 18	IHPDB018110*	Frame-1 18A 3P1NO DC Contactor	3225.00
	25 A	45 A	3	1	0	HGSCD 25	IHPDB025101*	Frame-1 25A 3P1NC DC Contactor	4745.00
	25 A	45 A	3	0	1	HGSCD 25	IHPDB025110*	Frame-1 25A 3P1NO DC Contactor	4745.00
2	32 A	60 A	3	0	0	HGSCD 32	IHPDB032200*	Frame-2 32A 3P DC Contactor	9180.00
	40 A	60 A	3	0	0	HGSCD 40	IHPDB040200*	Frame-2 40A 3P DC Contactor	12820.00
3	50 A	90 A	3	0	0	HGSCD 50	IHPDB050300*	Frame-3 50A 3P DC Contactor	16200.00
	65 A	110 A	3	0	0	HGSCD 65	IHPDB065300*	Frame-3 65A 3P DC Contactor	17340.00
	80 A	110 A	3	0	0	HGSCD 80	IHPDB080300*	Frame-3 80A 3P DC Contactor	21675.00
4	95 A	140 A	3	0	0	HGSCD 95	IHPDB095400*	Frame-4 95A 3P DC Contactor	27715.00
	105 A	140 A	3	0	0	HGSCD 105	IHPDB105400*	Frame-4 105A 3P DC Contactor	33040.00

### DC Coil Voltage Selection Table

DC Coil Codes			
Frame	B	H	M
1	24 V	110 V	220 V
2	24 V	110 V	220 V
3	24 V	110 V	220 V
4	24 V	110 V	220 V

### 3 Pole Mini Control Relay with DC Coil - HGSCR

- Compact size, rating upto 16 A
- Same size with an AC or DC coil contactor

HSN Code: 85364900

Frame Size	AC-1 Duty Rating	In - built Aux contacts		Type	Code	Description	Per Unit LP (₹)
	Ith A	NC	NO				
1	16 A	2	2	HGSCR	IHMADR22*	Mini Cont. 2NO2NC Control Relay DC	2530.00
1	16 A	3	1	HGSCR	IHMADR31*	Mini Cont. 3NO1NC Control Relay DC	2530.00
1	16 A	4	0	HGSCR	IHMADR40*	Mini Cont. 4NO Control Relay DC	2530.00
1	16 A	0	4	HGSCR	IHMADR04*	Mini Cont. 4NC Control Relay DC	2530.00
1	16 A	1	3	HGSCR	IHMADR13*	Mini Cont. 1NO3NC Control Relay DC	2530.00

### DC Coil Voltage Selection Table

DC Coil Codes		
Frame	B	H
1	24 V	110 V

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

\*To complete the Item Code suffix the coil voltage from the coil voltage table

### 3 Pole DC Contactor Accessories



#### Accessories - HGSCD Series Contactors

HSN Code: 85389000

Description	Configuraton	Suitable for	Item Code	Per Unit LP (₹)	
Aux Contact Block (Side Mounting)	1NO	HGSCD 9-HGSCD 105	ISSPEN0005	460.00	
	1NC		ISSPEN0006	460.00	
	1NO + 1NC		ISSPEN0007	805.00	
	2NO		ISSPEN0008	805.00	
Aux Contact Block (Front Mounting)	1NO		ISSPEN0001	270.00	
	1NC		ISSPEN0002	270.00	
	1NO (EM)		ISSPEN0003	590.00	
	1NC (DB)		ISSPEN0004	590.00	
Mechanical Interlock Unit			ISSPEN0077	815.00	
Mechanical + Electrical Interlock Unit			ISSPEN0009	1610.00	
Surge Suppressor Type RC	24 V AC - 48 V AC		HGSCD 40	ISSPEN0010	700.00
	50 V AC - 127 V AC			ISSPEN0011	700.00
	130 V AC - 250 V AC	ISSPEN0012		700.00	
	24 V AC - 48 V AC	HGSCD 105	ISSPEN0013	700.00	
	50 V AC - 127 V AC		ISSPEN0014	700.00	
	130 V AC - 250 V AC		ISSPEN0015	700.00	

#### Spare Coils - HGSCD Contactors (Refer Frame Sizes in Respective Contactor Table)

HSN Code: 85389000

Suitable for	Coil Type	Voltage	Item Code	Per Unit LP (₹)
For all Frame-1 Contactors (HGSCD 9 to HGSCD 25)	DC	24 V	ISSPEN0078	1875.00
		110 V	ISSPEN0018	
		220 V	ISSPEN0019	
For all Frame-2 Contactors (HGSCD 32 to HGSCD 40)		24 V	ISSPEN0021	1985.00
		110 V	ISSPEN0023	
For Frame -3 Contactors HGSCD 50		24 V - 28 V	ISSPEN0024	5090.00
		48 V	ISSPEN0025	
		110 V	ISSPEN0026	
For Frame -3 Contactors HGSCD 65		24 V	ISSPEN0027	5090.00
	110 V	ISSPEN0029		
For Frame -4 Contactors HGSCD 80	24 V	ISSPEN0030	8710.00	
	110 V	ISSPEN0032		
For Frame -4 Contactors HGSCD 105	24 V	ISSPEN0033	8710.00	
	110 V	ISSPEN0035		

#### Accessories - HGSCR Control Relay

HSN Code: 85389000

Description	Configuraton	Suitable for	Item Code	Per Unit LP (₹)
Aux Contact Block (Front Mounting)	2NO	HGSCR	ISSPEN0045	505.00
	1NO + 1NC		ISSPEN0046	505.00
	2NC		ISSPEN0047	505.00
	4NO		ISSPEN0048	825.00
	2NO + 2NC		ISSPEN0049	825.00
	4NC		ISSPEN0050	825.00
	3NO + 1NC		ISSPEN0051	825.00
	1NO + 3NC		ISSPEN0052	825.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 61**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Thermal Over Load Relay (Auto/ Manual Reset) - HGSCD Series



- 5 Frame
- Trip Class 10 A and Built in SPP
- Direct mounting
- IP20 guarded terminals prevent accidental contact with live parts



HSN Code: 85364900

Frame Size	Relay Range A	Suitable for Contactor Frame Size	Type	Code	Per Unit LP (₹)
2	0.28 A - 0.4 A	HGSCD009 HGSCD012 HGSCD018 HGSCD025 HGSCD032 HGSCD040	HGSDR	IHDR23C18	2060.00
	0.4 A - 0.63 A		HGSDR	IHDR23C19	2060.00
	0.56 A - 0.8 A		HGSDR	IHDR23C20	2060.00
	0.8 A - 1.2 A		HGSDR	IHDR23C21	2060.00
	1.2 A - 1.8 A		HGSDR	IHDR23C22	2060.00
	1.8 A - 2.8 A		HGSDR	IHDR23C23	2060.00
	2.8 A - 4 A		HGSDR	IHDR23C24	2060.00
	4 A - 6.3 A		HGSDR	IHDR23C25	2060.00
	5.6 A - 8 A		HGSDR	IHDR23C26	2060.00
	7 A - 10 A		HGSDR	IHDR23C27	2060.00
	8 A - 12.5 A		HGSDR	IHDR23C28	2060.00
	10 A - 15 A		HGSDR	IHDR23C29	2060.00
	11 A - 17 A		HGSDR	IHDR23C30	2490.00
	15 A - 23 A		HGSDR	IHDR23C31	2490.00
22 A - 32 A	HGSDR	IHDR23C32	3860.00		
3	25 A - 40 A	HGSCD032 HGSCD040	HGSDR	IHDR33C33	3860.00
4	32 A - 50 A	HGSCD050 HGSCD065 HGSCD080	HGSDR	IHDR43C34	4970.00
	40 A - 57 A		HGSDR	IHDR43C35	5270.00
	50 A - 63 A		HGSDR	IHDR43C36	6385.00
	57 A - 70 A		HGSDR	IHDR43C37	6385.00
5	63 A - 80 A	HGSCD095 HGSCD105	HGSDR	IHDR53C38	7050.00
	78 A - 97 A		HGSDR	IHDR53C39	7115.00
	90 A - 112 A		HGSDR	IHDR53C40	9680.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Motor Protection Circuit Breakers

MPCB Push button version	Rotary MPCB Fr 1	Rotary MPCB Fr 2
HGSM : Thermal Magnetic, 0.1 A - 32 A ■ Short Circuit + Overload Protection ■ Icu= 100 kA upto 10 A, Icu=15 kA for 9 A - 25 A & Icu= 10 kA for 24 A - 32 A	■ HGSTM : Thermal Magnetic, 0.1 A - 63 A ■ Short Circuit Protection + Overload Protection ■ Fr 1 - Icu= 100 kA upto 6.3 A & Icu= 50 kA from 6.3 A - 32 A Fr 2 - Icu= 50 kA from 11 A - 63 A	■ HGSMR : Magnetic, 0.16 A - 63 A ■ Short Circuit Protection ■ Fr 1 - Icu= 100 kA from 0.16 A - 6.3 A & Icu= 50 kA from 10 A - 32 A Fr 2 - Icu= 50 kA from 16 A - 63 A

## Range & Switching Capabilities

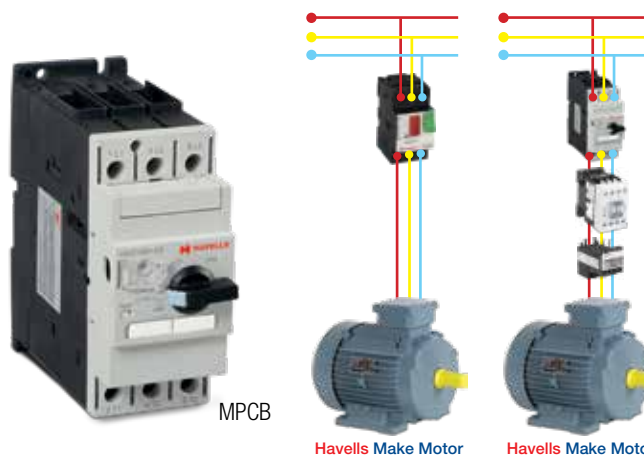
Type	Operating Method	Version	Protections Offered	Frame & Size	Ratings and Breaking Capacity		
HGSM	Push-Button	Thermal Magnetic	OL, SC, Single Phasing	Fr-1 45 mm	0.1 A - 10 A 100 kA	9 A - 25 A 15 kA	24 A - 32 A 10 kA
HGSTM	Rotary	Thermal Magnetic	OL, SC, Single Phasing	Fr-1 45 mm	0.1 A - 6.3 A 100 kA	6.3 A - 32 A 50 kA	
				Fr-2 55 mm	11 A - 63 A 50 kA		
HGSMR	Rotary	Magnetic	SC	Fr-1 45 mm	0.16 A - 6.3 A 100 kA	10 A - 32 A 50 kA	
				Fr-2 55 mm	16 A - 63 A 50 kA		



- ◆ Short circuit protection
- ◆ Over current protection
- ◆ Overload protection
- ◆ Phase loss protection
- ◆ Wide range of current adjustment dial
  
- ◆ Compact
- ◆ High breaking capacity
- ◆ Short circuit protective coordination
- ◆ Reduction in wiring work
- ◆ High switching durability
- ◆ Padlocking feature available
- ◆ Stand alone motor protection
- ◆ Common accessories

Circuit Breaker

Circuit Breaker

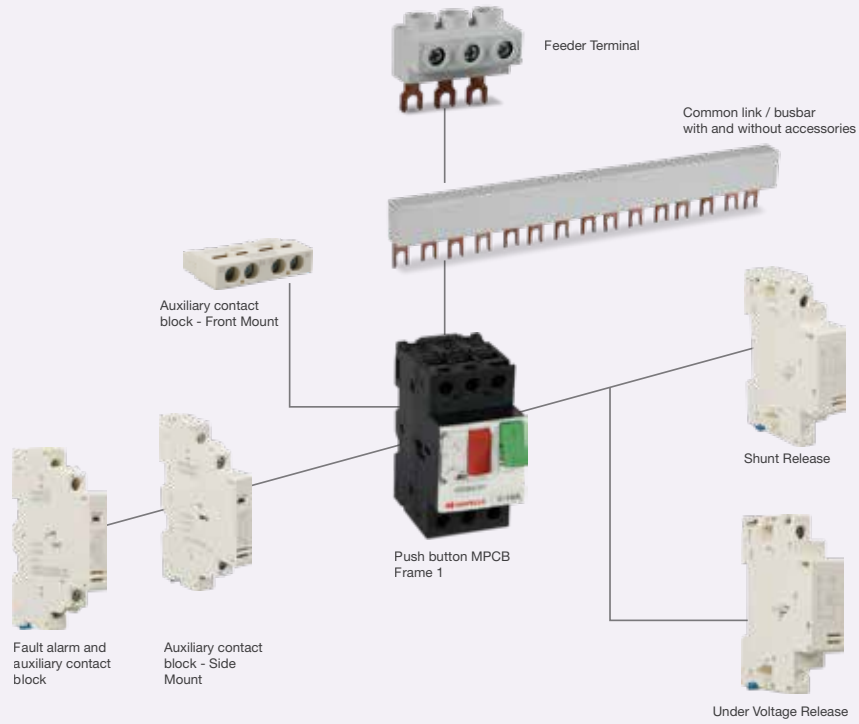


MPCB

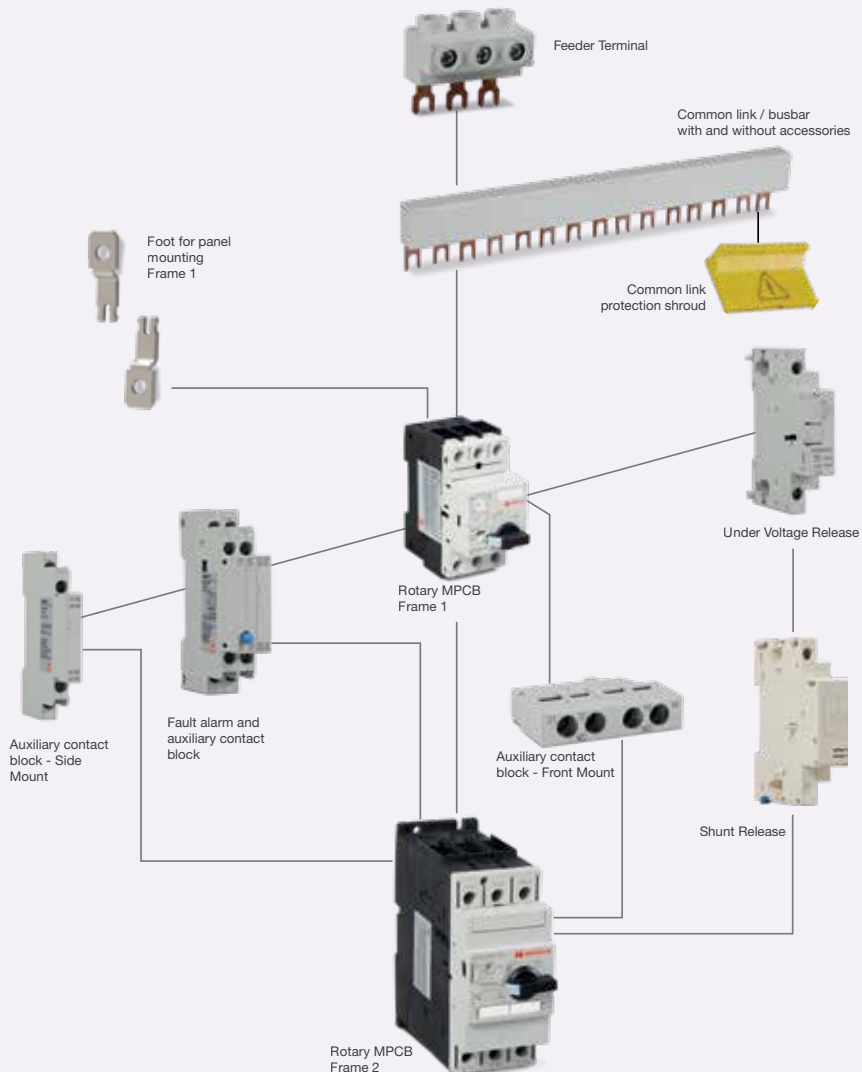
Havells Make Motor

Havells Make Motor

# Accessories Overview : Push Button MPCB



# Accessories Overview : Rotary MPCB



# MPCB - Motor Protection Circuit Breaker - HGSM Series



## MPCB specially coordinated for IE2, IE3 & IE4 Motors

### Push Button Version\*

#### Features:

- 1 Frame size - 45 mm width
- High Magnetic Setting - Makes it suitable for IE2, IE3 and IE4 Motors
- Tripping class: 10 A
- Mechanical Life: 100000 cycles
- Electrical Life: 100000 cycles
- Compliance to IEC 60947-2, IEC 60947-4-1
- Finger proof IP20 Terminals
- Lockable in OFF Position



## HGSM - Thermal Magnetic Series

HSN Code: 85362090

Frame	Model	Breaking Capacity kA 415 V, 50 Hz	Current Rating	Item Code	Per Unit LP (₹)
1	HGSM	100 kA	0.1 A - 0.16 A	IHHMPBA2A0	3075.00
			0.16 A - 0.25 A	IHHMPBB2B0	
			0.25 A - 0.4 A	IHHMPBC2D0	
			0.4 A - 0.63 A	IHHMPBD2E0	3490.00
			0.63 A - 1 A	IHHMPBE2F0	3515.00
			1 A - 1.6 A	IHHMPBF2G0	
			1.6 A - 2.5 A	IHHMPBG2R0	
			2.5 A - 4 A	IHHMPBH2I0	3640.00
			4 A - 6.3 A	IHHMPBJ2J0	3895.00
		6.3 A - 10 A	IHHMPBK2K0		
		9 A - 14 A	IHHMPBL2L0		
		15 kA	13 A - 18 A	IHHMPBN2M0	4990.00
			17 A - 23 A	IHHMPBQ2T0	5250.00
			20 A - 25 A	IHHMPBS2N0	
			10 kA	24 A - 32 A	IHHMPBT2P0

## Motor Protection Circuit Breaker - HGSM Series Accessories

HSN Code: 85389000

Description	Configuraton	Suitable for	Item Code	Per Unit LP (₹)
Aux Contact Block (Side Mounting)	2NO	HGSM MPCB	ISSPCU2414	825.00
	1NO + 1NC		ISSPCU2415	
Aux Contact Block (Top Mounting)	2NO		ISSPCU2412	825.00
	1NO + 1NC		ISSPCU2413	
UV Release	110 V AC		ISSPCU2406	2290.00
	240 V AC		ISSPCU2407	
	415 V AC		ISSPCU2408	
Shunt Release	110 V AC		ISSPCU2409	2290.00
	240 V AC		ISSPCU2410	
	415 V AC		ISSPCU2411	
Fault Alarm	1NC + 1NO		ISSPCU2416	1140.00
	1NC + 1NC		ISSPCU2417	
	1NO + 1NO	ISSPCU2418		
Water proof Box IP55		ISSPCU2419	1655.00	
Emergency Water proof Box IP55		ISSPCU2420	1720.00	



▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

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INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# MPCB Motor Protection Circuit Breaker - HGSTMR / HGSMR Series



## MPCB specially coordinated for IE2, IE3 & IE4 Motors

### Features:

- Rotary Version - 2 Frame Sizes, 45 mm and 55 mm width
- Thermal magnetic version - Range from 0.1 A - 63 A, Trip class 10
- Magnetic Only version - Range from 0.16 A - 63 A
- Rated Operational Voltage  $U_i$  : 690 V
- High Magnetic Setting - Makes it suitable for IE2, IE3 and IE4 Motors
- Compliance to IEC 60947-2 and IEC 60947-4-1
- Finger proof IP20 Terminals
- Lockable in OFF Position
- Suitable for DIN channel and Base Mounting both
- CE Marking



### HGSTMR - Thermal Magnetic Series

### HGSMR - Only Magnetic Series

HSN Code: 85362090

HSN Code: 85362090

Fr.	Model	Breaking Capacity kA 415 V, 50 Hz	Current Rating	Item Code	Per Unit LP (₹)		
1	HGSTMR - A1	100 kA	0.1 A - 0.16 A	IHHMROA1AT	3935.00		
		100 kA	0.16 A - 0.25 A	IHHMROB1BT	3935.00		
		100 kA	0.25 A - 0.4 A	IHHMROC1DT	3935.00		
		100 kA	0.4 A - 0.63 A	IHHMROD1ET	3935.00		
		100 kA	0.63 A - 1 A	IHHMROE1FT	3935.00		
		100 kA	1 A - 1.6 A	IHHMROF1GT	4495.00		
		100 kA	1.6 A - 2.5 A	IHHMROG1RT	4495.00		
		100 kA	2.5 A - 4 A	IHHMROH1IT	4495.00		
		100 kA	4 A - 6.3 A	IHHMROJ1JT	4495.00		
		50 kA	6.3 A - 10 A	IHHMROK1KT	5060.00		
		50 kA	10 A - 16 A	IHHMROM1MT	5060.00		
		50 kA	16 A - 20 A	IHHMROP1TT	6180.00		
		50 kA	20 A - 25 A	IHHMROS1NT	6180.00		
		50 kA	25 A - 32 A	IHHMROT1PT	11235.00		
		2	HGSTMR - A2	50 kA	11 A - 16 A	IHHMROM3MT	13485.00
				50 kA	14 A - 20 A	IHHMROP3TT	13485.00
50 kA	18 A - 25 A			IHHMROS3NT	13485.00		
50 kA	22 A - 32 A			IHHMROT3PT	17980.00		
50 kA	28 A - 40 A			IHHMROU3QT	17980.00		
50 kA	36 A - 45 A			IHHMROV3ST	17980.00		
50 kA	40 A - 50 A			IHHMROW3ST	17980.00		
50 kA	52 A - 63 A			IHHMROX3XT	17980.00		

Fr.	Model	Breaking Capacity kA 415 V, 50 Hz	Current Rating	Item Code	Per Unit LP (₹)		
1	HGSMR - A1	100 kA	0.16 A	IHHMROA1AM	3540.00		
		100 kA	0.25 A	IHHMROB1BM	3540.00		
		100 kA	0.4 A	IHHMROC1DM	3540.00		
		100 kA	0.63 A	IHHMROD1EM	3540.00		
		100 kA	1.0 A	IHHMROE1FM	3540.00		
		100 kA	1.6 A	IHHMROF1GM	4045.00		
		100 kA	2.5 A	IHHMROG1RM	4045.00		
		100 kA	4.0 A	IHHMROH1IM	4045.00		
		100 kA	6.3 A	IHHMROJ1JM	4045.00		
		50 kA	10 A	IHHMROK1KM	4555.00		
		50 kA	16 A	IHHMROM1MM	4555.00		
		50 kA	20 A	IHHMROP1TM	5565.00		
		50 kA	25 A	IHHMROS1NM	5565.00		
		50 kA	32 A	IHHMROT1PM	10115.00		
		2	HGSMR - A2	50 kA	16 A	IHHMROM3MM	12135.00
				50 kA	20 A	IHHMROP3TM	12135.00
50 kA	25 A			IHHMROS3NM	12135.00		
50 kA	32 A			IHHMROT3PM	16180.00		
50 kA	40 A			IHHMROU3QM	16180.00		
50 kA	45 A			IHHMROV3SM	16180.00		
50 kA	50 A			IHHMROW3SM	16180.00		
50 kA	63 A			IHHMROX3XM	16180.00		

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# MPCB specially coordinated for IE2, IE3 & IE4 Motors



## Motor Protection Circuit Breaker - HGSTMR / HGSMR Series Accessories

HSN Code: 85389000

Description	Configuraton	Suitable for	Item Code	Per Unit LP (₹)
Aux Contact Block (Side Mounting)	2NO	HGSTMR / HGSMR MPCB	ISSPDU0062	1350.00
	2NC		ISSPDU0061	1350.00
	1NO + 1NC		ISSPDU0063	1350.00
Fault Alarm + Aux Contact Block (Side Mounting)	2 NO + 2NC		ISSPDU0073	2810.00
Aux Contact Block (Top Mounting)	1NO + 1NC		ISSPDU0060	1125.00
UV Release	24 V AC / 28 V AC		ISSPDU0069	2700.00
	180 V AC		ISSPDU0066	2700.00
	208 V AC		ISSPDU0067	2700.00
	240 V AC		ISSPDU0064	2700.00
Shunt Release	100 V AC - 127 V AC		ISSPDU0071	2700.00
	20 V AC - 24 V AC	ISSPDU0070	2700.00	
	200 V AC - 240 V AC	ISSPDU0072	2700.00	
Operating Handle	HGSRHBG-A1 OPERATING HANDLE-ROT	ISSPDU0089	1465.00	
	HGSRHBG-A2 OPERATING HANDLE-ROT	ISSPDU0091	1800.00	
	HGSRHRY-A1 OPERATING HANDLE-ROT	ISSPDU0090	1465.00	
	HGSRHRY-A2 OPERATING HANDLE-ROT	ISSPDU0092	1800.00	
Enclosure	HGSREBG-A1 IP65/L ENCLOSURE-ROT	ISSPDU0076	4160.00	
	HGSREBG-A1 IP65/S ENCLOSURE-ROT	ISSPDU0074	3600.00	
	HGSRERY-A1 IP65/L ENCLOSURE-ROT	ISSPDU0077	4160.00	
	HGSRERY-A1 IP65/S ENCLOSURE-ROT	ISSPDU0075	3600.00	
Feeder Terminal	HGSRFT-A1 3P FEEDER TERMINALS	ISSPDU0079	900.00	
Terminal Barrier	HGSRBT-A1 3P TERMINAL BARRIER	ISSPDU0080	115.00	
Common Link	HGSRCL-A1 452MM COMMON LINK	ISSPDU0081	790.00	
	HGSRCL-A1 453MM COMMON LINK	ISSPDU0082	900.00	
	HGSRCL-A1 454MM COMMON LINK	ISSPDU0083	1070.00	
	HGSRCL-A1 455MM COMMON LINK	ISSPDU0084	1240.00	
	HGSRCL-A1 542MM COMMON LINK	ISSPDU0085	960.00	
	HGSRCL-A1 543MM COMMON LINK	ISSPDU0086	1070.00	
	HGSRCL-A1 544MM COMMON LINK	ISSPDU0087	1240.00	
	HGSRCL-A1 545MM COMMON LINK	ISSPDU0088	1405.00	



▲ Stockable Item

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INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Industrial Motor Starter - HGS



# HGS - Trusted Global Range

## Motor Starters

Motor Control Solutions for higher Safety, Reliability & Performance



DOL Starters  
Ratings - 0.55 kW to 37 kW  
(0.75 HP to 50 HP)



ASD Starters  
Ratings - 7.5 kW to 110 kW  
(10 HP to 150 HP)



ASD 3 $\phi$  Submersible Starters  
Ratings - 22 kW to 37 kW  
(30 HP to 50 HP)



ASD 3 $\phi$  Submersible Starters DLX  
(with Short-circuit Protection)  
Ratings - 22 kW to 37 kW  
(30 HP to 50 HP)

# Industrial Motor Starter - HGS

## Direct Online Starter - HGS Series



### Features:

- Range : 0.55 kW to 37 kW (0.75 HP to 50 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- Starter Type - Air Break
- Class H Insulation

HSN Code: 85369010

HP	kW	Contactor Rating	Overload Relay Range (A)	Item Code	Per Unit LP (₹)
0.75 HP ▲	0.55 kW	12 A	1.5 A - 2.1 A	IHHDFAW	3695.00
1 HP	0.75 kW	12 A	2 A - 3 A	IHHDFGAW	
2 HP ▲	1.5 kW	12 A	2.8 A - 4.2 A	IHHDFHAW	
3 HP ▲	2.2 kW	12 A	4.0 A - 6.0 A	IHHDFJAW	
5 HP ▲	3.7 kW	12 A	6 A - 9 A	IHHDFLAW	
7.5 HP ▲	5.5 kW	18 A	12 A - 18 A	IHHDFMAW	4435.00
10 HP ▲	7.5 kW	22 A	12 A - 18 A	IHHDFNAW	
15 HP ▲	11 kW	32 A	17 A - 25 A	IHHDFPBW	7155.00
20 HP	15 kW	32 A	22 A - 32 A	IHHDFWBW	11515.00
25 HP	18.5 kW	40 A	28 A - 40 A	IHHDFXBW	13960.00
30 HP	22 kW	50 A	34 A - 50 A	IHHDFYCW	18080.00
40 HP	30 kW	65 A	45 A - 65 A	IHHDF1CW	22330.00
50 HP	37 kW	85 A	59 A - 85 A	IHHDF3DW	25890.00

## Fully Automatic Star-Delta Starter (ASD) - HGS Series



### Features:

- Range : 7.5 kW to 110 kW (10 HP to 150 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- Starter Type - Air Break
- Class H Insulation

HSN Code: 85369010

HP	kW	Contactor Size	Overload Relay Range (A)	Item Code	Per Unit LP (₹)
5 HP	3.7 kW	12 A	4.0 A - 6 A	IHHASDMAW	14025.00
7.5 HP	5.5 kW	18 A	6.0 A - 9 A	IHHASDPAW	14025.00
10 HP ▲	7.5 kW	18 A	8.0 A - 12 A	IHHASDRAW	14025.00
12.5 HP	9.3 kW	18 A	8.0 A - 12 A	IHHASDTAW	14220.00
15 HP ▲	11 kW	22 A	12 A - 18.0 A	IHHASDTBW	14280.00
20 HP ▲	15 kW	25 A	15 A - 22 A	IHHASDUBW	16070.00
25 HP ▲	18.5 kW	32 A	17 A - 25 A	IHHASDVBW	18090.00
30 HP ▲	22 kW	32 A	22 A - 32 A	IHHASDWBW	19735.00
35 HP	26 kW	32 A	28 A - 40 A	IHHASDXBW	29295.00
40 HP	30 kW	50 A	28 A - 40 A	IHHASDXCW	40500.00
50 HP	37 kW	50 A	34 A - 50 A	IHHASDYCW	50015.00
60 HP	45 kW	50 A	45 A - 65 A	IHHASD1CWA	73395.00
75 HP	55 kW	65 A	45 A - 65 A	IHHASD1CWB	80735.00
90 HP	67.5 kW	85 A	59 A - 85 A	IHHASD3DW	94495.00
100 HP	75 kW	100 A	70 A - 100 A	IHHASD4DW	99145.00
125 HP	90 kW	115 A	78 A - 130 A	IHHASD7EW	136580.00
150 HP	110 kW	150 A	90 A - 150 A	IHHASD8EW	138545.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

## Automatic Star Delta Submersible Starter (STD) - HGS Series



### Features:

- Range : 22 kW to 37 kW (30 HP to 50 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- In-built metering
- Class H Insulation

HSN Code: 85369010

HP	kW	Full load Line Current	Full Load phase current	Contactor Size	Overload Relay Range (A)	Item Code	Per Unit LP (₹)
30 HP	22 kW	43.5 A	25.12 A	50 A	28 A - 40 A	IHHSSDXCW	40870.00
35 HP	26 kW	50.75 A	29.30 A	50 A	34 A - 50 A	IHHSSDYCWA	43310.00
40 HP	30 kW	58 A	33.49 A	65 A	34 A - 50 A	IHHSSDYCWB	47635.00
45 HP	33.6 kW	65.25 A	37.67 A	75 A	45 A - 65 A	IHHSSD1DW	59545.00
50 HP	37 kW	72.5 A	41.86 A	85 A	52 A - 75 A	IHHSSD2DW	64950.00

## Automatic Star Delta Submersible Starter DLX (with short-circuit Protection) - HGS Series



### Features:

- Range : 22 kW to 37 kW (30 HP to 50 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- In-built metering & MCB
- Class H Insulation

HSN Code: 85369010

HP	kW	Full load Line Current	Full Load phase current	Contactor Size	Overload Relay Range (A)	TP MCB Rating (A)	Item Code	Per Unit LP (₹)
30 HP	22 kW	43.5 A	25.12 A	50 A	28 A - 40 A	100 A	IHHSDXCW	42045.00
35 HP	26 kW	50.75 A	29.30 A	50 A	34 A - 50 A	100 A	IHHSDYCWA	44530.00
40 HP	30 kW	58 A	33.49 A	65 A	34 A - 50 A	100 A	IHHSDYCWB	48935.00
45 HP	33.6 kW	65.25 A	37.67 A	75 A	45 A - 65 A	125 A	IHHSD1DW	61075.00
50 HP	37 kW	72.5 A	41.86 A	85 A	52 A - 75 A	125 A	IHHSD2DW	66585.00

▲ Stockable Item

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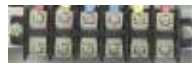




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# Spares for Industrial Motor Starter - HGS Series



HSN Code: 85389000

Type	Item Code	Per Unit LP (₹)	
Start Push Button - Green	ICELL00002	215.00	
Stop Push Button - Red	ICELL00003		
Motor ON Indicating Light-Green	ICELKL00015	345.00	
Motor Trip Indicating Light-Yellow	ICELKL00013		
SPP	ISCELXL00063	3710.00	
Combined Voltmeter & Ammeter	ISCEMLX0007	1410.00	
Terminal Block 6 way	ICELPSMX001	530.00	
Terminal Block 3 way	ICELPSMX002	320.00	
VOLT.SEL SW. C/G	ICELQL00021	495.00	
Electronic Timer	ICELRPSL005	3195.00	
Mini Rocker Switch - SPP By Pass	ISCELEL00218	55.00	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Agricultural Motor Starter



# Agricultural Motor Starter



3  $\phi$  Urja Lite DOL Starters  
Ratings - 0.19 kW to 7.5 kW  
(0.25 HP to 10 HP)



1  $\phi$  & 3  $\phi$  Urja DOL Starters  
Ratings - 0.55 kW to 11 kW  
(0.75 HP to 15 HP) - 3  $\phi$   
Ratings - 0.37 kW to 2.2 kW  
(0.5 HP to 3 HP) - 1  $\phi$



3 $\phi$  DOL Starter Submersible  
Pump Controller  
Ratings - 0.75 kW to 11 kW  
(1 HP to 15 HP)



3 $\phi$  ASD Submersible  
Pump Controller  
Ratings - 3.7 kW to 15 kW  
(5 HP to 20 HP)



1 $\phi$  Submersible Starters with Start  
& Run Capacitor (Powerguard)  
Ratings - 0.37 kW to 2.2 kW  
(0.5 HP to 3 HP)



1 $\phi$  Submersible Pump Controller  
(Powerguard)  
Ratings - 0.37 kW to 2.2 kW  
(0.5 HP to 3 HP)

# Motor Starter

## urja Urja Lite DOL Starters



### Features:

- Range: upto 10 HP DOL
- Wide Band Coil 380 V (250 V - 440 V)
- Enclosure Dust, Vermin & Moisture Proof
- Quick Fit Technology
- Hight Electrical & Mechanical Life

HSN Code: 85369010

HP	kW	Contactor	O/L Relay	Motor Starter	
		(A)	(A)	Item Code	Per Unit LP (₹)
0.25 HP	0.19 kW	12 A	0.6 A - 1 A	IHADOB1LH	3075.00
0.5 HP	0.37 kW	12 A	1 A - 1.6 A	IHADOB1LH	3075.00
1 HP	0.75 kW	12 A	1.5 A - 2.5 A	IHADOB1LH	3075.00
2 HP ▲	1.5 kW	12 A	2.5 A - 4 A	IHADOB1LH	3075.00
3 HP ▲	2.2 kW	12 A	4 A - 6.5 A	IHADOB1LH	3075.00
5 HP ▲	3.7 kW	12 A	6 A - 10 A	IHADOB1LH	3075.00
7.5 HP ▲	5.6 kW	16 A	9 A - 14 A	IHADOB1LH	3075.00
10 HP ▲	7.5 kW	25 A	13 A - 21 A	IHADOB1LH	3675.00

## urja DOL Starters 3 Phase - Agri Series

### Features:

- Range : 0.55 kW to 11 kW (0.75 HP to 15 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- Starter Type - Air Break
- Class H Insulation



### Direct Online Starter - (Ideal for Agri Pump Application)

HSN Code: 85369010

HP	kW	Contactor	O/L Relay	Motor Starter	
		(A)	(A)	Item Code	Per Unit LP (₹)
0.75 HP	0.55 kW	16 A	1.07 A - 1.7 A	IHADOA1K	3500.00
1 HP ▲	0.75 kW	16 A	1.58 A - 2.5 A	IHADOA1K	
2 HP ▲	1.5 kW	16 A	2.4 A - 3.8 A	IHADOA1K	
3 HP ▲	2.2 kW	16 A	3.8 A - 6.0 A	IHADOA1K	
5 HP ▲	3.7 kW	16 A	6.0 A - 9.3 A	IHADOA1K	
7.5 HP ▲	5.5 kW	20 A ▲	8.9 A - 13.5 A	IHADOA1K	3850.00
		20 A	13.2 A - 20 A	IHADOA1KA	
		20 A	17.4 A - 24 A	IHADOA1KB	
10 HP ▲	7.5 kW	20 A	13.2 A - 20 A	IHADOA1K	
15 HP ▲	11 kW	25 A	17.4 A - 24 A	IHADOA1K	4945.00

## urja DOL Starters Single Phase - Agri Series

### Features:

- Range : 0.37 kW to 2.2 kW (0.5 HP to 3 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- Starter type Air break
- Class H Insulation



### Direct Online Starter Single Phase

HSN Code: 85369010

HP	kW	FLC (A)	Contactor (A)	O/L Relay (A)	Item Code	Per Unit LP (₹)
0.5 HP	0.37 kW	3.12 A	20 A	3.8 A - 6.0 A	IHUDOLG1F1	2275.00
1 HP ▲	0.75 kW	6.24 A	20 A	6 A - 9.3 A	IHUDOLH1F1	
1.5 HP ▲	1.1 kW	9.15 A	20 A	8.9 A - 13.5 A	IHUDOLK1F1	
2 HP ▲	1.5 kW	12.47 A	20 A	13.2 A - 20 A	IHUDOLK1FA	2335.00
3 HP ▲	2.2 kW	18.71 A	25 A	17.4 A - 24 A	IHUDOLL1F1	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 75**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

## urja Direct Online Starter Submersible Pump Controller (Standard)

3 Phase - Agri Series

### Features:

- Range : 0.75 kW to 11 kW (1 HP to 15 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- SPP with auto manual switch
- FRLS (Fire retardant low smoke) Internal wiring
- Combined V / A meter, Voltmeter selector switch
- ON OFF indication



HSN Code: 85369010

HP	kW	Max. Operational Current (A)	Contactor AC3 (A)	OLR (A)	Item Code	Per Unit LP (₹)
1 HP	0.75 kW	1.90 A	20 A	1.58 A - 2.5 A	IHSDOAF1KA	10375.00
2 HP	1.5 kW	3.81 A	20 A	3.8 A - 6.0 A	IHSDOAH1KA	
3 HP ▲	2.2 kW	5.71 A	20 A	3.8 A - 6.0 A	IHSDOAH1KB	
5 HP ▲	3.7 kW	9.52 A	20 A	8.9 A - 13.5 A	IHSDOAK1KA	
7.5 HP ▲	5.5 kW	14.27 A	20 A	13.2 A - 20 A	IHSDOAL1KA	
10 HP ▲	7.5 kW	19.03 A	25 A	13.2 A - 20 A	IHSDOAL1KB	10915.00
12.5 HP	9.3 kW	23.79 A	32 A	17.4 A - 24 A	IHSDOAM1KA	11460.00
15 HP	11 kW	28.55 A	32 A	22 A - 30 A	IHSDOAN1KA	12725.00

## urja Automatic Star Delta Submersible Pump Controller (Standard)

3 Phase - Agri Series

### Features:

- Range : 3.75 kW to 15 kW (5 HP to 20 HP)
- Conforms to IS/IEC 60947-4-1
- Provided with Protection Degree IP 54
- SPP with auto manual switch
- FRLS (Fire retardant low smoke) Internal wiring
- Combined V / A meter, Voltmeter selector switch
- ON OFF indication
- Star Delta Timer



HSN Code: 85369010

HP	Max Operating Current 135% (A)	Phase Current (A)	OLR (A)	Contactor AC3 (A)	Item Code	Per Unit LP (₹)
5 HP	10.13 A	5.85 A	3.8 A - 6.0 A	20 A	IHSASAH1KA	18225.00
7.5 HP	15.19 A	8.77 A	6 A - 9.3 A	20 A	IHSASAJ1KA	
10 HP ▲	20.25 A	11.69 A	8.9 A - 13.5 A	20 A	IHSASAK1KA	
12.5 HP	25.31 A	14.61 A	13.2 A - 20 A	20 A	IHSASAL1KA	19810.00
15 HP ▲	30.38 A	17.54 A	13.2 A - 20 A	20 A	IHSASAL1KB	20240.00
17.5 HP	35.44 A	20.46 A	17.4 A - 24 A	25 A	IHSASAM1KA	
20 HP ▲	40.50 A	23.38 A	22 A - 30 A	32 A	IHSASAN1KA	23190.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# POWER GUARD Submersible Controllers (Standard)

## Features:

- Water Filled / Oil Filled Submersible motor Configuration
- Digital Smart display for clear identification of current and voltage
- OLP, MCB & contactor combination for better efficiency & performance against product safety
- Applicable for 75 mm / 100 mm borewell Submersible Pump application
- Suitable for wide voltage operation
- High quality rubber gasket to prevent dusty entry
- Five-way connector for easy connection



HSN Code: 85369010

Item Code	kW	HP	Type	Descriptions	OLP	MCB	Con-tactor	Run Capacitor $\mu\text{F}$ (MFD)	Start Capacitor $\mu\text{F}$ (MFD)	Per Unit LP (₹)
IHQMFDM1F1	0.37 kW	0.5 HP	water Filled	0.5 HP SP STR WATER FILLED R6A	6 A	10 A	20 A	36 $\mu\text{F}$	120 $\mu\text{F}$ - 150 $\mu\text{F}$	3585.00
IHRMFDM1F1	0.37 kW	0.5 HP	Oil Filled	0.5 HP SP STR OIL FILLED R6A	6 A	10 A	20 A	36 $\mu\text{F}$	-	3350.00
IHQMFQ1F1	0.75 kW	1 HP ▲	water Filled	1 HP SP STR WATER FILLED R 10A	10 A	16 A	20 A	50 $\mu\text{F}$	120 $\mu\text{F}$ - 150 $\mu\text{F}$	3660.00
IHRMFQ1F1	0.75 kW	1 HP	Oil Filled	1 HP SP STR OIL FILLED R10A	10 A	16 A	20 A	36 $\mu\text{F}$	-	3545.00
IHSMFDQ1F1	0.75 kW	1 HP	Oil Filled	1 HP SP STR OIL FILLED WC R10A	10 A	16 A	0 A	36 $\mu\text{F}$	-	2005.00
IHQMFDR1F1	1.1 kW	1.5 HP ▲	water Filled	1.5 HP SP STR WATER FILLED R 12A	16 A	20 A	25 A	72 $\mu\text{F}$	150 $\mu\text{F}$ - 200 $\mu\text{F}$	3960.00
IHRMFDR1F1	1.1 kW	1.5 HP	Oil Filled	1.5 HP SP STR OIL FILLED R12A	16 A	20 A	25 A	50 $\mu\text{F}$	-	3755.00
IHSMFDR1F1	1.1 kW	1.5 HP	Oil Filled	1.5 HP SP STR OIL FILLED WC R12A	12 A	20 A	0 A	50 $\mu\text{F}$	-	2120.00
IHQMFDT1FA	1.1 kW	1.5 HP	Water Filled	1.5 HP SP STR WATER FILLED R14A	16 A	20 A	25 A	(50+50) $\mu\text{F}$	150 $\mu\text{F}$ - 200 $\mu\text{F}$	4045.00
IHQMFDU1F1	1.5 kW	2 HP ▲	Water Filled	2 HP SP STR WATER FILLED R 16A	16 A	20 A	25 A	72 $\mu\text{F}$	150 $\mu\text{F}$ - 200 $\mu\text{F}$	4130.00
IHQMFDU1FA	1.5 kW	2 HP	Water Filled	2 HP SP STR WATER FILLED R16A CAP 50+50	16 A	20 A	25 A	(50+50) $\mu\text{F}$	150 $\mu\text{F}$ - 200 $\mu\text{F}$	4220.00
IHRMFDU1F1	1.5 kW	2 HP	Oil Filled	2 HP SP STR OIL FILLED R16A	16 A	20 A	25 A	72 $\mu\text{F}$	-	3955.00
IHQMFV1F1	2.2 kW	3 HP	water Filled	3 HP SP STR WATER FILLED R 25A	25 A	32 A	32 A	(50+50) $\mu\text{F}$	200 $\mu\text{F}$ - 250 $\mu\text{F}$	4765.00

# POWER GUARD Submersible Controllers (Deluxe)

## Features:

- Inbuilt start run capacitor
- Suitable for wide voltage operation
- High quality rubber gasket to prevent dusty entry
- Five-way connector for easy connection
- OLR with Single Phasing Protection



HSN Code: 85369010

HP Rating	kW	Overload Relay (A)	Contactor (A)	Start Capacitor $\mu\text{F}$ (MFD)	Run Capacitor $\mu\text{F}$ (MFD)	Item Code	List Price in (₹) Per Unit
0.5 HP	0.37 kW	3.8 A - 6.0 A	20 A	80 $\mu\text{F}$ - 100 $\mu\text{F}$	25 $\mu\text{F}$	IHADOAH1F1	5600.00
0.5 HP	0.37 kW	3.8 A - 6.0 A	20 A	80 $\mu\text{F}$ - 100 $\mu\text{F}$	36 $\mu\text{F}$	IHADOAJ1FA	
1 HP	0.75 kW	6 A - 9.3 A	20 A	100 $\mu\text{F}$ - 120 $\mu\text{F}$	36 $\mu\text{F}$	IHADOAJ1FB	
1 HP ▲	0.75 kW	6 A - 9.3 A	20 A	100 $\mu\text{F}$ - 120 $\mu\text{F}$	50 $\mu\text{F}$	IHADOAJ1FC	
1 HP	0.75 kW	6 A - 9.3 A	20 A	120 $\mu\text{F}$ - 150 $\mu\text{F}$	50 $\mu\text{F}$	IHADOAJ1FD	6175.00
1.5 HP ▲	1.1 kW	8.9 A - 13.5 A	20 A	120 $\mu\text{F}$ - 150 $\mu\text{F}$	50 $\mu\text{F}$	IHADOAK1FA	
1.5 HP ▲	1.1 kW	8.9 A - 13.5 A	20 A	150 $\mu\text{F}$ - 200 $\mu\text{F}$	(36+36) $\mu\text{F}$	IHADOAK1FB	
2 HP ▲	1.5 kW	13.2 A - 20 A	20 A	150 $\mu\text{F}$ - 200 $\mu\text{F}$	(36+36) $\mu\text{F}$	IHADOAL1FA	6605.00
2 HP ▲	1.5 kW	13.2 A - 20 A	20 A	150 $\mu\text{F}$ - 200 $\mu\text{F}$	(50+50) $\mu\text{F}$	IHADOAL1FB	
2 HP ▲	1.5 kW	13.2 A - 20 A	20 A	200 $\mu\text{F}$ - 250 $\mu\text{F}$	(50+36) $\mu\text{F}$	IHADOAL1FC	
3 HP ▲	2.2 kW	17.4 A - 24 A	25 A	200 $\mu\text{F}$ - 250 $\mu\text{F}$	(50+50) $\mu\text{F}$	IHADOAM1FA	7830.00
3 HP ▲	2.2 kW	17.4 A - 24 A	25 A	200 $\mu\text{F}$ - 250 $\mu\text{F}$	(50+36+36) $\mu\text{F}$	IHADOAM1FB	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 77**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

## urja Contactor 4 Pole (16 A to 40 A)



### Features:

- Rugged Contactors with heavy duty Contacts with anti-welding silver alloys
- High Mechanical and Electrical Life
- High Terminal Capacity
- Suitable for Wide voltage Fluctuations including sudden DIP in voltage

HSN Code: 85369010

AC-3 Duty Rating at 415 V, 50 Hz I <sub>e</sub> (A)	AC-1 Duty Rating at 415 V, 50 Hz I <sub>th</sub> (A)	Power Poles	Type	Item Code	Item Description	Per Unit LP (₹)
20 A	25 A	4	UC1 20 F	IHPBC020100*	20 A 4P Contactor	3000.00
25 A	40 A		UC1 25 F	IHPBC025100*	25 A 4P Contactor	3700.00
32 A	45 A		UC1 32 F	IHPBC032100*	32 A 4P Contactor	4200.00
40 A	63 A		UC1 40 F	IHPBC040100*	40 A 4P Contactor	5500.00

## urja Contactor 2 Pole (16 A to 40 A)



### Features:

- Rugged Contactors with heavy duty Contacts with anti-welding silver alloys
- High Mechanical and Electrical Life
- High Terminal Capacity
- Suitable for Wide voltage Fluctuations including sudden DIP in voltage

HSN Code: 85369010

AC-3 Duty Rating at 415 V, 50 Hz I <sub>e</sub> (A)	AC-1 Duty Rating at 415 V, 50 Hz I <sub>th</sub> (A)	Power Poles	Type	Item Code	Item Description	Per Unit LP (₹)
20 A	32 A	2	UC1 20 D	IHPBF020100*	20 A 2P Contactor	1440.00
25 A	40 A		UC1 25 D	IHPBF025100*	25 A 2P Contactor	2050.00
40 A	63 A		UC1 40 D	IHPBF040100*	40 A 2P Contactor	2810.00

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

### AC Coil for 4 Pole

Code*	F	K
AC Voltage	140 V - 270 V	260 V - 440 V

### AC Coil for 2 Pole

Code*	F
AC Voltage	140 V - 270 V



## urja Thermal Overload Relay 3 Pole

HSN Code: 85364900

Relay Range (A)	Suitable for	Poles	Type	Item Code	Item Description	Per Unit LP (₹)
1.07 A - 1.7 A	4 Pole Contactors	3	UR1 E	IHAR13CE	3P Thermal O/L Relay A/M	2090.00
1.58 A - 2.5 A			UR1 F	IHAR13CF	3P Thermal O/L Relay A/M	
2.4 A - 3.8 A			UR1 G	IHAR13CG	3P Thermal O/L Relay A/M	
3.8 A - 6.0 A			UR1 H	IHAR13CH	3P Thermal O/L Relay A/M	
6 A - 9.3 A			UR1 J	IHAR13CJ	3P Thermal O/L Relay A/M	
8.9 A - 13.5 A			UR1 K	IHAR13CK	3P Thermal O/L Relay A/M	
13.2 A - 20 A			UR1 L	IHAR13CL	3P Thermal O/L Relay A/M	
17.4 A - 24 A			UR1 M	IHAR13CM	3P Thermal O/L Relay A/M	
22 A - 30 A			UR1 N	IHAR13CN	3P Thermal O/L Relay A/M	

## urja Thermal Overload Relay 2 Pole



HSN Code: 85364900

Relay Range (A)	Suitable for	Poles	Type	Item Code	Item Description	Per Unit LP (₹)
3.8 A - 6 A	2 Pole Contactors	2	UR1 H	IHAR12CH	2P Thermal O/L Relay A/M	1020.00
6 A - 9.3 A			UR1 J	IHAR12CJ	2P Thermal O/L Relay A/M	
8.9 A - 13.5 A			UR1 K	IHAR12CK	2P Thermal O/L Relay A/M	
13.2 A - 20 A			UR1 L	IHAR12CL	2P Thermal O/L Relay A/M	1115.00
17.4 A - 24 A			UR1 M	IHAR12CM	2P Thermal O/L Relay A/M	
22 A - 30 A			UR1 N	IHAR12CN	2P Thermal O/L Relay A/M	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

**Spare Agri Contactor 2P / 4P**

HSN Code: 85389000

Type	Rating	Item Code	Per Unit LP (₹)
Housing 2P		ISCPSPMCX016	345.00
Housing 4P		ISCPSPMCX014	555.00
Carrier Assembly 2P		ISSPEX0447	100.00
Carrier Assembly 4P		ISSPEX0446	145.00
2P Contactor Coil	140 V - 270 V	ISSPEP0008	740.00
4P Contactor Coil	200 V - 400 V	ISSPEP0007	845.00
	415 V (260 V - 440 V)	ISSPEP0009	
	240 V (140 V - 270 V)	ISSPEP0011	
Single Fixed Contact 2P / 4P	20 A	ISSPEX0428	120.00
	25 A	ISSPEX0429	160.00
	32 A	ISSPEX0430	170.00
	40 A	ISSPEX0439	205.00
Single Moving Contact 2P / 4P	20 A	ISSPEX0431	175.00
	25 A	ISSPEX0432	250.00
	32 A	ISSPEX0433	285.00
	40 A	ISSPEX0440	345.00
Contact Kit 2P Contactor	20 A	ISSPEX0441	790.00
	25 A	ISSPEX0442	1110.00
	40 A	ISSPEX0444	1465.00
Contact Kit 4P Contactor	20 A	ISSPEX0434	1435.00
	25 A	ISSPEX0435	2230.00
	32 A	ISSPEX0436	2400.00
	40 A	ISSPEX0445	2390.00



▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 79**

**DOL Starter - Spares**

HSN Code: 85389000

Type	Item Code	Per Unit LP (₹)
NO Switch URJA	ISSPEX0437	170.00
ON / OFF Push Button Assembly URJA	ISSPEX0438	



**urja** Single Phase Sub. Starter - Spares

HSN Code: 85389000

Type	Item Code	Per Unit LP (₹)
PB Red for SPSS with 1NC Element	ISCELXLX0001	250.00
5+16 Element (1.5-2 HP) 1.12 kW - 1.50 kW	ISCELXLX0002	470.00
	5+25 Element (3-5 HP) 2.24 kW - 3.73 kW	ISCELXLX0003
Neon Light Indicator Red	ISCELKLX0006	100.00
Front Add-on Aux.Cont.Blck	2NO ISSPEX0427	530.00
Combined AV Meter	30 A - 300 V ISCELMLX0006	1405.00
	25 A - 500 V ISCELMLX0007	1410.00
	50 A - 500 V ISCELMLX0008	1550.00
Terminal Block	2 Way SPSS ISCPMPSX032	55.00
	5 Way ISCELXPX0003	195.00



▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

Type	Item Code	Per Unit LP (₹)
Start Push Button - Green	ICELL00002	215.00
Stop Push Button - Red	ICELL00003	
Motor ON Indicating Light-Green	ICELKL00015	345.00
Motor Trip Indicating Light-Yellow	ICELKL00013	
SPP	ISCELXL00063	3605.00
Combined Voltmeter & Ammeter	ISCELMX0007	1410.00
Terminal Block 6 way	ICELPSMX001	530.00
Terminal Block 3 way	ICELPSMX002	320.00
VOLT.SEL SW. C/G	ICELQL00021	495.00
Electronic Timer	ICELRPSL005	3195.00
Front Block 1NO 1NC	ISPNAFM711	555.00
Mini Rocker Switch - SPP By Pass	ISCELEL00218	55.00



▲ Stockable Item  
For details on technical parameters & non stockable items contact nearest sales office.

# Street Light Panel



## Street Light Panel

### Features:

- Range : 6 kW to 12 kW
- Conforms to IS/IEC 61439 & 60529
- Provided with Protection Degree IP54
- Extended wide band coil
- FRLS (Fire retardant low smoke) Internal wiring
- In-built Short-Circuit Protection
- Class H Insulation

HSN Code: 85365090

Phase	Max. Load (kW)	Contactor Rating (A)	MCB Rating	Digital 24 Hour Switch		Astronomical Switch	
				Item Code	Per Unit	Item Code	Per Unit LP (₹)
3	6 kW	32 A TP	40 A TPN	IHXTS03060	35490.00	IHXTS0306A	36570.00
	12 kW	65 A TP	63 A TPN	IHXTS09120	54765.00	IHXTS0912A	55845.00
1	6 kW	32 A TP	40 A SPN	IHXSS01060	26615.00	IHXSS0106A	27695.00
	12 kW	65 A TP	63 A SPN	IHXSS03120	39985.00	IHXSS0312A	41065.00

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
PROGRAMMABLE TIME SWITCH FOR SLP	ISCELMLX0012	3855.00
ASTRONOMICAL TIME SWITCH FOR SLP	ISCELMLX0013	4170.00

For customised Street Lighting Panels, contact to nearest branch

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Power Quality Solutions



# Power Quality Solutions

## MPP Power Capacitor



### Power Capacitors

Parameters	Splendid Duty	Heavy Duty Plus / Heavy Duty	Super Heavy Duty (double dielectric) / Super Heavy Duty
Type	MPP	MPP	MPP
Over Current withstand capacity upto	1.6 X Ir	2.4 X Ir / 2.2 Ir	3.2 X Ir / 3.0 X Ir
Peak Inrush Current Withstand Capacity upto	250 times	350 times / 350 times	500 times / 500 times
Total Losses	≤0.45 W / kVAr	≤0.45 W / kVAr	≤0.45 W / kVAr
No of switching per year	35000	50000 / 52500	80000 / 65000
Max Ambient Temp (°C)	55 °C	55 °C	55 °C
Operating life in hours	120000 hours	200000 hours / 215000 hours	300000 hours / 250000 hours
Notch Shield	Yes	Yes	Yes
Over pressure Disconnecter	Yes	Yes	Yes
Triple Safety	Yes	Yes	Yes
Certification	ISI Marked		
Conforms to standard	IS: 13340 / IEC: 60831		

### Selection of Capacitor

Selection of Capacitor Type is first decision to be made  
 Power Factor Correction Capacitor can be classified as follows.  
 Splendid Duty - Torrent and Mini Master / Master  
 Heavy Duty - Phantom & Champ  
 SHD / UHDXL- Warrior and Champion (Double Di-electric)

### Refer following table for the capacitor duty based on type of Industry / Application

Power Capacitor Selection Chart on the basis of Application				
% Non linear load	≤ 10%	Up to 15%	Up to 20%	Between 20% to 30%
Square	Master Splendid Duty	Champ HD Plus	Champion SHD	Champ HD Plus + Reactor
Cylindrical	Torrent Splendid Duty	Phantom HD	Warrior SHD	Warrior SHD + Reactor
Application	These Capacitors are designed for normal loads where non linear factor is ≤10% THD I. Do not use normal duty capacitors for the application of Heavy Duty and Super Heavy Duty capacitors.	<15% THD I. Commercial building with CFL lamps, SMPS, UPS etc.	<20% THD I. Heavy Chemical Industries	<25% THD I. Steel plant
		Garment industries (Sewing Industry)	Pharmaceutical Industries	Cement Industries
		Bakeries	Automobile plants	Stone crushing
		Flour mills	Paper Industries	Textiles (Production of Yarn/cloth)
		Oil mills	Food processing plants	Forging Industries
		Glass industries	IT Industries	Power frequency induction furnaces
		Rice mills	Fabrication shops	Sugar plants
		Cold storage	Welding shops	Rolling mills
		Machine and tool shop		
Example for Calculating Non Linear Load Installed Transformer Rating = 1000 kVA Non Linear Loads = 100 kVA $\% \text{ Non Linear Load} = (\text{Non Linear Load} / \text{Transformer Rating}) \times 100$ $= (100/1000) \times 100$ $= 10\%$ Example of Non Linear Loads: UPS, Arc / Induction furnace, Rectifiers, AC / DC Drives, Computer, CFL, CNC Machines.				

# Calculation of Required kVAr

Current Power Factor Cos φ	Achievable (Target) Cos φ				Target Cos φ = 0.96		Q	0.97	0.98	0.99	1
	0.90	0.91	0.92	0.94	0.95	0.96					
0.51	1.20	1.23	1.26	1.32	1.36	1.40	1.44	1.48	1.54	1.69	
0.52	1.16	1.19	1.22	1.28	1.31	1.35	1.39	1.44	1.50	1.64	
0.53	1.11	1.14	1.17	1.24	1.27	1.30	1.35	1.40	1.46	1.60	
0.54	1.08	1.10	1.13	1.20	1.23	1.27	1.31	1.36	1.42	1.56	
0.55	1.04	1.06	1.09	1.16	1.19	1.23	1.27	1.32	1.38	1.52	
0.56	1.00	1.02	1.05	1.12	1.15	1.19	1.23	1.28	1.34	1.48	
0.57	0.96	0.99	1.02	1.08	1.11	1.15	1.19	1.24	1.30	1.44	
0.58	0.92	0.95	0.98	1.04	1.08	1.11	1.15	1.20	1.26	1.41	
0.59	0.89	0.91	0.94	1.01	1.04	1.08	1.12	1.17	1.23	1.37	
0.60	0.85	0.88	0.91	0.97	1.00	1.04	1.08	1.13	1.19	1.33	
0.61	0.82	0.84	0.87	0.94	0.97	1.01	1.05	1.10	1.16	1.30	
0.62	0.78	0.81	0.84	0.90	0.94	0.97	1.02	1.06	1.12	1.27	
0.63	0.75	0.78	0.81	0.87	0.90	0.94	0.98	1.03	1.09	1.23	
0.64	0.72	0.75	0.78	0.84	0.87	0.91	0.95	1.00	1.07	1.20	
0.65	0.69	0.71	0.74	0.81	0.84	0.88	0.92	0.97	1.03	1.17	
0.66	0.65	0.68	0.71	0.77	0.81	0.85	0.89	0.94	1.00	1.14	
0.67	0.62	0.65	0.68	0.74	0.78	0.82	0.86	0.91	0.97	1.11	
0.68	0.59	0.62	0.65	0.71	0.75	0.79	0.83	0.88	0.94	1.08	
0.69	0.57	0.59	0.62	0.68	0.72	0.76	0.80	0.85	0.91	1.05	
0.70	0.54	0.56	0.59	0.65	0.69	0.73	0.77	0.82	0.88	1.02	
0.71	0.51	0.54	0.57	0.63	0.66	0.70	0.74	0.79	0.85	0.99	
0.72	0.48	0.51	0.54	0.60	0.64	0.67	0.71	0.76	0.82	0.96	
0.73	0.45	0.48	0.51	0.57	0.61	0.64	0.69	0.73	0.79	0.94	
0.74	0.43	0.45	0.48	0.54	0.58	0.62	0.66	0.71	0.77	0.91	
0.75	0.40	0.43	0.46	0.51	0.55	0.59	0.63	0.68	0.74	0.88	
0.76	0.37	0.40	0.43	0.49	0.53	0.56	0.60	0.65	0.71	0.86	
0.77	0.35	0.37	0.40	0.46	0.50	0.44	0.58	0.63	0.69	0.83	
0.78	0.32	0.35	0.38	0.43	0.47	0.51	0.55	0.60	0.66	0.80	
0.79	0.29	0.32	0.35	0.41	0.45	0.48	0.53	0.57	0.63	0.78	
0.80	0.27	0.29	0.32	0.38	0.42	0.46	0.50	0.55	0.61	0.75	
0.81	0.24	0.27	0.30	0.36	0.40	0.43	0.47	0.52	0.58	0.72	
0.82	0.21	0.24	0.27	0.33	0.37	0.41	0.45	0.50	0.56	0.70	
0.83	0.19	0.22	0.25	0.30	0.34	0.38	0.42	0.47	0.53	0.67	
0.84	0.16	0.19	0.22	0.28	0.32	0.35	0.40	0.44	0.50	0.65	
0.85	0.14	0.16	0.19	0.25	0.29	0.33	0.37	0.42	0.48	0.62	
0.86	0.11	0.14	0.17	0.23	0.26	0.30	0.34	0.39	0.45	0.59	
0.87	0.08	0.11	0.14	0.20	0.24	0.28	0.32	0.36	0.43	0.57	
0.88	0.06	0.08	0.11	0.17	0.21	0.25	0.29	0.34	0.40	0.54	
0.89	0.03	0.06	0.09	0.15	0.18	0.22	0.26	0.31	0.37	0.51	
0.90	0.00	0.03	0.08	0.12	0.16	0.19	0.23	0.28	0.34	0.48	
0.91		0.00	0.03	0.09	0.13	0.16	0.21	0.25	0.31	0.46	
0.92			0.00	0.06	0.10	0.13	0.18	0.22	0.28	0.43	
0.93				0.03	0.07	0.10	0.14	0.19	0.25	0.40	
0.94				0.00	0.03	0.07	0.11	0.16	0.22	0.36	
0.95					0.00	0.04	0.08	0.13	0.19	0.33	

### Calculation of Required kVAr

Operating load kW and its average power factor (PF) as per the electricity bill OR we can easily calculate by a simple formula

Average PF = kW / kVA Operating load kW = kVA Demand x Average PF

Average PF is considered as the initial PF and the final PF is assumed as a target PF. From this information required kVAr can be easily calculated with reference table.

Example: Calculate required kVAr to improve PF from 0.75 to 0.96 for 500 kW installation

kVAr = kW x multiplying factor from table = 500 x 0.590 = 295 kVAr

## Hercules - Normal Duty Single Phase Cylindrical Capacitors

- Design in Cylindrical Aluminium cane.
- Output range 1 kVAr to 5 kVAr.
- Compact volume, low weight
- Easy connection and installation



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 250 V AC, 1<math>\phi</math>, 50 Hz</b>					
1 kVAr	QHBSCS5001X0	HERCULES 250 V 50 Hz-1 kVAr 1 PH	1 N	16 N	505.00
2 kVAr	QHBSCS5002X0	HERCULES 250 V 50 Hz-2 kVAr 1 PH	1 N	16 N	700.00
3 kVAr	QHBSCS5003X0	HERCULES 250 V 50 Hz-3 kVAr 1 PH	1 N	16 N	1055.00
4 kVAr	QHBSCS5004X0	HERCULES 250 V 50 Hz-4 kVAr 1 PH	1 N	16 N	1390.00
5 kVAr	QHBSCS5005X0	HERCULES 250 V 50 Hz-5 kVAr 1 PH	1 N	8 N	1715.00

## Torrent - Splendid Duty Cylindrical Capacitors

- Design in Cylindrical Aluminium cane.
- Output range 1 kVAr to 30 kVAr.
- Long life expectancy upto 120000 Hours
- Compact volume, low weight
- Easy connection and installation



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
1 kVAr ▲	QHUTCC5001X0	Torrent 440 V 50 Hz-1 kVAr 3 PH	1 N	16 N	390.00
2 kVAr ▲	QHUTCC5002X0	Torrent 440 V 50 Hz-2 kVAr 3 PH	1 N	16 N	595.00
3 kVAr ▲	QHUTCC5003X0	Torrent 440 V 50 Hz-3 kVAr 3 PH	1 N	16 N	930.00
4 kVAr ▲	QHUTCC5004X0	Torrent 440 V 50 Hz-4 kVAr 3 PH	1 N	16 N	1030.00
5 kVAr ▲	QHUTCC5005X0	Torrent 440 V 50 Hz-5 kVAr 3 PH	1 N	16 N	1180.00
6 kVAr ▲	QHUTCC5006X0	Torrent 440 V 50 Hz-6 kVAr 3 PH	1 N	16 N	1415.00
7.5 kVAr ▲	QHUTCC5007X5	Torrent 440 V 50 Hz-7.5 kVAr 3PH	1 N	16 N	1770.00
10 kVAr ▲	QHUTCC5010X0	Torrent 440 V 50 Hz-10 kVAr 3 PH	1 N	8 N	2360.00
12.5 kVAr ▲	QHUTCC5012X5	Torrent 440 V 50 Hz-12.5 kVAr 3 PH	1 N	8 N	2945.00
15 kVAr ▲	QHUTCC5015X0	Torrent 440 V 50 Hz-15 kVAr 3 PH	1 N	4 N	3535.00
20 kVAr ▲	QHUTCC5020X0	Torrent 440 V 50 Hz-20 kVAr 3 PH	1 N	4 N	4715.00
25 kVAr ▲	QHUTCC5025X0	Torrent 440 V 50 Hz-25 kVAr 3 PH	1 N	4 N	5890.00
30 kVAr	QHUTCC5030X0	Torrent 440 V 50 Hz-30 kVAr 3 PH	1 N	4 N	7070.00

## Phantom - Heavy Duty Cylindrical Capacitors

- Design in Cylindrical Aluminium Cane.
- Output range - 1 kVAr to 50 kVAr
- High Inrush Current Withstand Capability
- Operating Life in Hrs - 150000
- Soft Sticky Resin to withstand high temperature and current stress



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
1 kVAr	QHHTCC5001X0	PHANTOM HD 440 V 50 Hz 1 kVAr 3 PH	1 N	16 N	480.00
2 kVAr	QHHTCC5002X0	PHANTOM HD 440 V 50 Hz 2 kVAr 3 PH	1 N	16 N	730.00
3 kVAr	QHHTCC5003X0	PHANTOM HD 440 V 50 Hz 3 kVAr 3 PH	1 N	16 N	1010.00
4 kVAr	QHHTCC5004X0	PHANTOM HD 440 V 50 Hz 4 kVAr 3 PH	1 N	16 N	1210.00
5 kVAr	QHHTCC5005X0	PHANTOM HD 440 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1520.00
7.5 kVAr	QHHTCC5007X5	PHANTOM HD 440 V 50 Hz 7.5 kVAr 3 PH	1 N	16 N	2160.00
10 kVAr	QHHTCC5010X0	PHANTOM HD 440 V 50 Hz 10 kVAr 3 PH	1 N	16 N	2875.00
12.5 kVAr	QHHTCC5012X5	PHANTOM HD 440 V 50 Hz 12.5 kVAr 3 PH	1 N	8 N	3595.00
15 kVAr	QHHTCC5015X0	PHANTOM HD 440 V 50 Hz 15 kVAr 3 PH	1 N	8 N	4315.00
20 kVAr	QHHTCC5020X0	PHANTOM HD 440 V 50 Hz 20 kVAr 3 PH	1 N	4 N	5750.00
25 kVAr	QHHTCC5025X0	PHANTOM HD 440 V 50 Hz 25 kVAr 3 PH	1 N	4 N	7185.00
30 kVAr	QHHTCC5030X0	PHANTOM HD 440 V 50 Hz 30 kVAr 3 PH	1 N	4 N	8625.00
50 kVAr	QHHTCC5050X0	PHANTOM HD 440 V 50 Hz 50 kVAr 3 PH	1 N	4 N	14370.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

(IS: 13340 / IEC: 60831)

## Warrior - Super Heavy Duty Cylindrical Capacitors

- High inrush current withstand capability.
- Output range 1 kVAr to 30 kVAr.
- Soft sticky resin to withstand high temperature and current stress.
- Penta safety protection.
- Explosion proof, low losses & high over current withstand capabilities.



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
1 kVAr ▲	QHBTOCC5001X0	Warrior Super Heavy Duty 440 V 50 Hz 1 kVAr 3 PH	1 N	16 N	510.00
2 kVAr ▲	QHBTOCC5002X0	Warrior Super Heavy Duty 440 V 50 Hz 2 kVAr 3 PH	1 N	16 N	775.00
3 kVAr ▲	QHBTOCC5003X0	Warrior Super Heavy Duty 440 V 50 Hz 3 kVAr 3 PH	1 N	16 N	965.00
4 kVAr ▲	QHBTOCC5004X0	Warrior Super Heavy Duty 440 V 50 Hz 4 kVAr 3 PH	1 N	16 N	1290.00
5 kVAr ▲	QHBTOCC5005X0	Warrior Super Heavy Duty 440 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1675.00
6 kVAr	QHBTOCC5006X0	Warrior Super Heavy Duty 440 V 50 Hz 7.5 kVAr 3 PH	1 N	8 N	2005.00
7.5 kVAr ▲	QHBTOCC5007X5	Warrior Super Heavy Duty 440 V 50 Hz 6 kVAr 3 PH	1 N	8 N	2505.00
8 kVAr	QHBTOCC5008X0	Warrior Super Heavy Duty 440 V 50 Hz 8 kVAr 3 PH	1 N	8 N	2675.00
10 kVAr ▲	QHBTOCC5010X0	Warrior Super Heavy Duty 440 V 50 Hz 10 kVAr 3 PH	1 N	8 N	3340.00
12.5 kVAr ▲	QHBTOCC5012X5	Warrior Super Heavy Duty 440 V 50 Hz 12.5 kVAr 3 PH	1 N	4 N	4175.00
15 kVAr ▲	QHBTOCC5015X0	Warrior Super Heavy Duty 440 V 50 Hz 15 kVAr 3 PH	1 N	4 N	5010.00
20 kVAr ▲	QHBTOCC5020X0	Warrior Super Heavy Duty 440 V 50 Hz 20 kVAr 3 PH	1 N	4 N	6680.00
25 kVAr ▲	QHBTOCC5025X0	Warrior Super Heavy Duty 440 V 50 Hz 25 kVAr 3 PH	1 N	4 N	8350.00
30 kVAr	QHBTOCC5030X0	Warrior Super Heavy Duty 440 V 50 Hz 30 kVAr 3 PH	1 N	4 N	10020.00
<b>Rated Voltage 480 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
5 kVAr	QHBTOCD5005X0	Warrior Super Heavy Duty 480 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1725.00
7.5 kVAr	QHBTOCD5007X5	Warrior Super Heavy Duty 480 V 50 Hz 7.5 kVAr 3 PH	1 N	8 N	2590.00
10 kVAr	QHBTOCD5010X0	Warrior Super Heavy Duty 480 V 50 Hz 10 kVAr 3 PH	1 N	8 N	3450.00
12.5 kVAr	QHBTOCD5012X5	Warrior Super Heavy Duty 480 V 50 Hz 12.5 kVAr 3 PH	1 N	4 N	4310.00
15 kVAr	QHBTOCD5015X0	Warrior Super Heavy Duty 480 V 50 Hz 15 kVAr 3 PH	1 N	4 N	5170.00
20 kVAr	QHBTOCD5020X0	Warrior Super Heavy Duty 480 V 50 Hz 20 kVAr 3 PH	1 N	4 N	6890.00
25 kVAr	QHBTOCD5025X0	Warrior Super Heavy Duty 480 V 50 Hz 25 kVAr 3 PH	1 N	4 N	8615.00
30 kVAr	QHBTOCD5030X0	Warrior Super Heavy Duty 480 V 50 Hz 30 kVAr 3 PH	1 N	4 N	10340.00
<b>Rated Voltage 525 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
5 kVAr	QHBTOCF5005X0	Warrior Super Heavy Duty 525 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1725.00
7.5 kVAr	QHBTOCF5007X5	Warrior Super Heavy Duty 525 V 50 Hz 7.5 kVAr 3 PH	1 N	8 N	2590.00
10 kVAr	QHBTOCF5010X0	Warrior Super Heavy Duty 525 V 50 Hz 10 kVAr 3 PH	1 N	8 N	3450.00
12.5 kVAr	QHBTOCF5012X5	Warrior Super Heavy Duty 525 V 50 Hz 12.5 kVAr 3 PH	1 N	4 N	4310.00
15 kVAr	QHBTOCF5015X0	Warrior Super Heavy Duty 525 V 50 Hz 15 kVAr 3 PH	1 N	4 N	5170.00
20 kVAr	QHBTOCF5020X0	Warrior Super Heavy Duty 525 V 50 Hz 20 kVAr 3 PH	1 N	4 N	6890.00
25 kVAr	QHBTOCF5025X0	Warrior Super Heavy Duty 525 V 50 Hz 25 kVAr 3 PH	1 N	4 N	8615.00
30 kVAr	QHBTOCF5030X0	Warrior Super Heavy Duty 525 V 50 Hz 30 kVAr 3 PH	1 N	4 N	10340.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

(IS: 13340 / IEC: 60831)

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 87**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

## Mini / Master - Splendid Duty Square Capacitors

- High inrush current withstand capability.
- Output range 1 kVAr to 50 kVAr.
- Soft sticky resin to withstand high temperature and current stress.
- Penta safety protection.
- Explosion proof, low losses & high over current withstand capabilities.



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
1 kVAr ▲	QHNTMC5001X0	Mini Master 440 V 50 Hz-1 kVAr 3 PH	1 N	30 N	475.00
2 kVAr ▲	QHNTMC5002X0	Mini Master 440 V 50 Hz-2 kVAr 3 PH	1 N	30 N	645.00
3 kVAr ▲	QHNTMC5003X0	Mini Master 440 V 50 Hz-3 kVAr 3 PH	1 N	24 N	965.00
4 kVAr ▲	QHNTMC5004X0	Mini Master 440 V 50 Hz-4 kVAr 3 PH	1 N	24 N	1285.00
5 kVAr ▲	QHNTMC5005X0	Mini Master 440 V 50 Hz-5 kVAr 3 PH	1 N	24 N	1500.00
6 kVAr ▲	QHNTMC5006X0	Master 440 V 50 Hz-6 kVAr 3 PH	1 N	1 N	1800.00
7.5 kVAr ▲	QHNTMC5007X5	Master 440 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	2245.00
8 kVAr ▲	QHNTMC5008X0	Master 440 V 50 Hz-8 kVAr 3 PH	1 N	1 N	2395.00
10 kVAr ▲	QHNTMC5010X0	Master 440 V 50 Hz-10 kVAr 3 PH	1 N	1 N	2995.00
12.5 kVAr ▲	QHNTMC5012X5	Master 440 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	3745.00
15 kVAr ▲	QHNTMC5015X0	Master 440 V 50 Hz-15 kVAr 3 PH	1 N	1 N	4490.00
20 kVAr ▲	QHNTMC5020X0	Master 440 V 50 Hz-20 kVAr 3 PH	1 N	1 N	5985.00
25 kVAr ▲	QHNTMC5025X0	Master 440 V 50 Hz-25 kVAr 3 PH	1 N	1 N	7480.00
30 kVAr	QHNTMC5030X0	Master 440 V 50 Hz-30 kVAr 3 PH	1 N	1 N	8975.00
50 kVAr	QHNTMC5050X0	Master 440 V 50 Hz-50 kVAr 3 PH	1 N	1 N	14960.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.



Other Ratings on request

(IS: 13340 / IEC: 60831)

## Champ - Heavy Duty Plus Square Capacitors

- High inrush current withstand capability.
- Output range 1 kVAr to 100 kVAr.
- Soft sticky resin to withstand high temperature and current stress.
- Penta safety protection.
- Explosion proof, low losses & high over current withstand capabilities.



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
1 kVAr	QHBTMC5001X0	Champ 440 V 50 Hz-1 kVAr 3 PH	1 N	30 N	525.00
2 kVAr	QHBTMC5002X0	Champ 440 V 50 Hz-2 kVAr 3 PH	1 N	30 N	865.00
3 kVAr ▲	QHBTMC5003X0	Champ 440 V 50 Hz-3 kVAr 3 PH	1 N	24 N	1295.00
4 kVAr	QHBTMC5004X0	Champ 440 V 50 Hz-4 kVAr 3 PH	1 N	24 N	1730.00
5 kVAr ▲	QHBTMC5005X0	Champ 440 V 50 Hz-5 kVAr 3 PH	1 N	1 N	2090.00
6 kVAr	QHBTMC5006X0	Champ 440 V 50 Hz-6 kVAr 3 PH	1 N	1 N	2505.00
7.5 kVAr ▲	QHBTMC5007X5	Champ 440 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	3130.00
8 kVAr	QHBTMC5008X0	Champ 440 V 50 Hz-8 kVAr 3 PH	1 N	1 N	3340.00
10 kVAr ▲	QHBTMC5010X0	Champ 440 V 50 Hz-10 kVAr 3 PH	1 N	1 N	4170.00
12.5 kVAr ▲	QHBTMC5012X5	Champ 440 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	5215.00
15 kVAr ▲	QHBTMC5015X0	Champ 440 V 50 Hz-15 kVAr 3 PH	1 N	1 N	6260.00
20 kVAr ▲	QHBTMC5020X0	Champ 440 V 50 Hz-20 kVAr 3 PH	1 N	1 N	8345.00
25 kVAr ▲	QHBTMC5025X0	Champ 440 V 50 Hz-25 kVAr 3PH	1 N	1 N	10430.00
30 kVAr	QHBTMC5030X0	Champ 440 V 50 Hz-30 kVAr 3 PH	1 N	1 N	12515.00
50 kVAr	QHBTMC5050X0	Champ 440 V 50 Hz-50 kVAr 3 PH	1 N	1 N	21935.00
<b>Rated Voltage 480 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
5 kVAr	QHBTMD5005X0	Champ 480 V 50 Hz-5 kVAr 3 PH	1 N	1 N	2245.00
6 kVAr	QHBTMD5006X0	Champ 480 V 50 Hz-6 kVAr 3 PH	1 N	1 N	2695.00
7.5 kVAr	QHBTMD5007X5	Champ 480 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	3370.00
10 kVAr	QHBTMD5010X0	Champ 480 V 50 Hz-10 kVAr 3 PH	1 N	1 N	4490.00
12.5 kVAr	QHBTMD5012X5	Champ 480 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	5610.00
15 kVAr	QHBTMD5015X0	Champ 480 V 50 Hz-15 kVAr 3 PH	1 N	1 N	6735.00
20 kVAr	QHBTMD5020X0	Champ 480 V 50 Hz-20 kVAr 3 PH	1 N	1 N	8975.00
25 kVAr	QHBTMD5025X0	Champ 480 V 50 Hz-25 kVAr 3 PH	1 N	1 N	11220.00
30 kVAr	QHBTMD5030X0	Champ 480 V 50 Hz-30 kVAr 3 PH	1 N	1 N	13465.00
50 kVAr	QHBTMD5050X0	Champ 480 V 50 Hz-50 kVAr 3 PH	1 N	1 N	22440.00
<b>Rated Voltage 525 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
5 kVAr	QHBTMF5005X0	Champ 525 V 50 Hz-5 kVAr 3 PH	1 N	1 N	2245.00
6 kVAr	QHBTMF5006X0	Champ 525 V 50 Hz-6 kVAr 3 PH	1 N	1 N	2695.00
7.5 kVAr	QHBTMF5007X5	Champ 525 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	3370.00
10 kVAr	QHBTMF5010X0	Champ 525 V 50 Hz-10 kVAr 3 PH	1 N	1 N	4490.00
12.5 kVAr	QHBTMF5012X5	Champ 525 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	5610.00
15 kVAr	QHBTMF5015X0	Champ 525 V 50 Hz-15 kVAr 3 PH	1 N	1 N	6735.00
20 kVAr	QHBTMF5020X0	Champ 525 V 50 Hz-20 kVAr 3 PH	1 N	1 N	8975.00
25 kVAr	QHBTMF5025X0	Champ 525 V 50 Hz-25 kVAr 3 PH	1 N	1 N	11220.00
30 kVAr	QHBTMF5030X0	Champ 525 V 50 Hz-30 kVAr 3 PH	1 N	1 N	13465.00
50 kVAr	QHBTMF5050X0	Champ 525 V 50 Hz-50 kVAr 3 PH	1 N	1 N	23150.00

\*\*Higher Rating above 50 kVAr available on request.

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

(IS: 13340 / IEC: 60831)

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 89**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Champion - SHD Square Capacitors

- High inrush current withstand capability.
- Output range 1 kVAr to 100 kVAr.
- Soft sticky resin to withstand high temperature and current stress.
- Penta safety protection.
- Explosion proof, low losses & high over current withstand capabilities.



HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
1 kVAr	QHSTMC5001X0	Champion 440 V 50 Hz-1 kVAr 3 PH	1 N	16 N	1205.00
2 kVAr	QHSTMC5002X0	Champion 440 V 50 Hz-2 kVAr 3 PH	1 N	1 N	2400.00
3 kVAr	QHSTMC5003X0	Champion 440 V 50 Hz-3 kVAr 3 PH	1 N	1 N	3600.00
4 kVAr	QHSTMC5004X0	Champion 440 V 50 Hz-4 kVAr 3 PH	1 N	1 N	4175.00
5 kVAr	QHSTMC5005X0	Champion 440 V 50 Hz-5 kVAr 3 PH	1 N	1 N	4215.00
6 kVAr	QHSTMC5006X0	Champion 440 V 50 Hz-6 kVAr 3 PH	1 N	1 N	4765.00
7.5 kVAr	QHSTMC5007X5	Champion 440 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	5955.00
8 kVAr	QHSTMC5008X0	Champion 440 V 50 Hz-8 kVAr 3 PH	1 N	1 N	6355.00
10 kVAr	QHSTMC5010X0	Champion 440 V 50 Hz-10 kVAr 3 PH	1 N	1 N	7940.00
12.5 kVAr	QHSTMC5012X5	Champion 440 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	9925.00
15 kVAr	QHSTMC5015X0	Champion 440 V 50 Hz-15 kVAr 3 PH	1 N	1 N	11905.00
20 kVAr	QHSTMC5020X0	Champion 440 V 50 Hz-20 kVAr 3 PH	1 N	1 N	15875.00
25 kVAr	QHSTMC5025X0	Champion 440 V 50 Hz-25 kVAr 3 PH	1 N	1 N	19845.00
30 kVAr	QHSTMC5030X0	Champion 440 V 50 Hz-30 kVAr 3 PH	1 N	1 N	24870.00
50 kVAr	QHSTMC5050X0	Champion 440 V 50 Hz-50 kVAr 3 PH	1 N	1 N	41450.00
<b>Rated Voltage 480 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
5 kVAr	QHSTMD5005X0	Champion 480 V 50 Hz-5 kVAr 3 PH	1 N	1 N	4255.00
6 kVAr	QHSTMD5006X0	Champion 480 V 50 Hz-6 kVAr 3 PH	1 N	1 N	4815.00
7.5 kVAr	QHSTMD5007X5	Champion 480 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	6015.00
10 kVAr	QHSTMD5010X0	Champion 480 V 50 Hz-10 kVAr 3 PH	1 N	1 N	8020.00
12.5 kVAr	QHSTMD5012X5	Champion 480 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	10025.00
15 kVAr	QHSTMD5015X0	Champion 480 V 50 Hz-15 kVAr 3 PH	1 N	1 N	12030.00
20 kVAr	QHSTMD5020X0	Champion 480 V 50 Hz-20 kVAr 3 PH	1 N	1 N	16035.00
25 kVAr	QHSTMD5025X0	Champion 480 V 50 Hz-25 kVAr 3 PH	1 N	1 N	20045.00
30 kVAr	QHSTMD5030X0	Champion 480 V 50 Hz-30 kVAr 3 PH	1 N	1 N	25120.00
50 kVAr	QHSTMD5050X0	Champion 480 V 50 Hz-50 kVAr 3 PH	1 N	1 N	41865.00
<b>Rated Voltage 525 V AC, 3<math>\phi</math>, 50 Hz, Delta Connection</b>					
5 kVAr	QHSTMF5005X0	Champion 525 V 50 Hz-5 kVAr 3 PH	1 N	1 N	4300.00
6 kVAr	QHSTMF5006X0	Champion 525 V 50 Hz-6 kVAr 3 PH	1 N	1 N	4860.00
7.5 kVAr	QHSTMF5007X5	Champion 525 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	6075.00
10 kVAr	QHSTMF5010X0	Champion 525 V 50 Hz-10 kVAr 3 PH	1 N	1 N	8100.00
12.5 kVAr	QHSTMF5012X5	Champion 525 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	10125.00
15 kVAr	QHSTMF5015X0	Champion 525 V 50 Hz-15 kVAr 3 PH	1 N	1 N	12150.00
20 kVAr	QHSTMF5020X0	Champion 525 V 50 Hz-20 kVAr 3 PH	1 N	1 N	16200.00
25 kVAr	QHSTMF5025X0	Champion 525 V 50 Hz-25 kVAr 3 PH	1 N	1 N	20245.00
30 kVAr	QHSTMF5030X0	Champion 525 V 50 Hz-30 kVAr 3 PH	1 N	1 N	25375.00
50 kVAr	QHSTMF5050X0	Champion 525 V 50 Hz-50 kVAr 3 PH	1 N	1 N	42290.00

\*\*Higher Rating above 50 kVAr available on request.

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

(IS: 13340)

# Harmonic Detuned Reactor

## Range:

- 1 kVAr to 100 kVAr
- Available in: Copper & Aluminium
- Detuning Factor: 7% and 14% corresponding to tuning Frequencies of 190 Hz and 135 Hz for the base of 50 Hz
- Rated Operational Voltage: 380 V to 690 V
- linearity : 185% to 225% of In

## Features:

- High linearity 185% to 225%
- Insulation Class H
- Temperature protection - NC contact (UL Approved)
- Long expected life time
- Low noise & very low losses
- Compliance to IEC 61558



## Selection Chart: Capacitor voltage and kVAr selection for 7% and 14% reactors

Effective kVAr output	With 7% detuned reactor		With 14% detuned reactor	
	Reactor (440 V)	Capacitor (480 V)**	Reactor (440 V)	Capacitor (525 V)**
5 kVAr	5 kVAr	6 kVAr / 480 V	5 kVAr	6 kVAr / 525 V
10 kVAr	10 kVAr	12.5 kVAr / 480 V	10 kVAr	12.5 kVAr / 525 V
12.5 kVAr	12.5 kVAr	15 kVAr / 480 V	12.5 kVAr	15 kVAr / 525 V
15 kVAr	15 kVAr	20 kVAr / 480 V	15 kVAr	20 kVAr / 525 V
20 kVAr	20 kVAr	25 kVAr / 480 V	20 kVAr	25 kVAr / 525 V
25 kVAr	25 kVAr	30 kVAr / 480 V	25 kVAr	30 kVAr / 525 V
50 kVAr	50 kVAr	60 kVAr / 480 V	50 kVAr	60 kVAr / 525 V
75 kVAr	75 kVAr	90 kVAr / 480 V	75 kVAr	90 kVAr / 525 V
100 kVAr	100 kVAr	120 kVAr / 480 V	100 kVAr	120 kVAr / 525 V



## Harmonic Detuned Reactor Aluminium

HSN Code: 85049090

Rating kVAr	Cat. Code	Description	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, F = 50 Hz, P = 7% ( Fr = 189 Hz) / Linearity: L &gt; 0.95 Lr for current up to 1.85 . I1 (Aluminium)</b>			
1 kVAr	QHHTLCV001X0	H. D.- REACTOR, 7% AL, 01 kVAr 440 V AC	6065.00
2 kVAr	QHHTLCV002X0	H. D.- REACTOR, 7% AL, 02 kVAr 440 V AC	6615.00
3 kVAr	QHHTLCV003X0	H. D.- REACTOR, 7% AL, 03 kVAr 440 V AC	7490.00
4 kVAr	QHHTLCV004X0	H. D.- REACTOR, 7% AL, 04 kVAr 440 V AC	7965.00
5 kVAr	QHHTLCV005X0	H. D.- REACTOR, 7% AL, 05 kVAr 440 V AC	9820.00
10 kVAr	QHHTLCV010X0	H. D.- REACTOR, 7% AL, 10 kVAr 440 V AC	11945.00
12.5 kVAr	QHHTLCV012X5	H. D.- REACTOR, 7% AL, 12.5 kVAr 440 V AC	12210.00
15 kVAr	QHHTLCV015X0	H. D.- REACTOR, 7% AL, 15 kVAr 440 V AC	17385.00
20 kVAr	QHHTLCV020X0	H. D.- REACTOR, 7% AL, 20 kVAr 440 V AC	19110.00
25 kVAr	QHHTLCV025X0	H. D.- REACTOR, 7% AL, 25 kVAr 440 V AC	19770.00
50 kVAr	QHHTLCV050X0	H. D.- REACTOR, 7% AL, 50 kVAr 440 V AC	31565.00
75 kVAr	QHHTLCV075X0	H. D.- REACTOR, 7% AL, 75 kVAr 440 V AC	52280.00
100 kVAr	QHHTLCV100X0	H. D.- REACTOR, 7% AL, 100 kVAr 440 V AC	59710.00
<b>Rated Voltage 440 V AC, F = 50 Hz, P = 14% ( Fr = 189 Hz) / Linearity: L &gt; 0.95 Lr for current up to 1.85 . I1 (Aluminium)</b>			
5 kVAr	QHHTLCW005X0	H. D.- REACTOR, 14% AL, 05 kVAr 440 V AC	Price on Request
10 kVAr	QHHTLCW010X0	H. D.- REACTOR, 14% AL, 10 kVAr 440 V AC	
12.5 kVAr	QHHTLCW012X5	H. D.- REACTOR, 14% AL, 12.5 kVAr 440 V AC	
15 kVAr	QHHTLCW015X0	H. D.- REACTOR, 14% AL, 15 kVAr 440 V AC	
20 kVAr	QHHTLCW020X0	H. D.- REACTOR, 14% AL, 20 kVAr 440 V AC	
25 kVAr	QHHTLCW025X0	H. D.- REACTOR, 14% AL, 25 kVAr 440 V AC	
50 kVAr	QHHTLCW050X0	H. D.- REACTOR, 14% AL, 50 kVAr 440 V AC	
75 kVAr	QHHTLCW075X0	H. D.- REACTOR, 14% AL, 75 kVAr 440 V AC	
100 kVAr	QHHTLCW100X0	H. D.- REACTOR, 14% AL, 100 kVAr 440 V AC	

## Harmonic Detuned Reactor Copper

HSN Code: 85049090

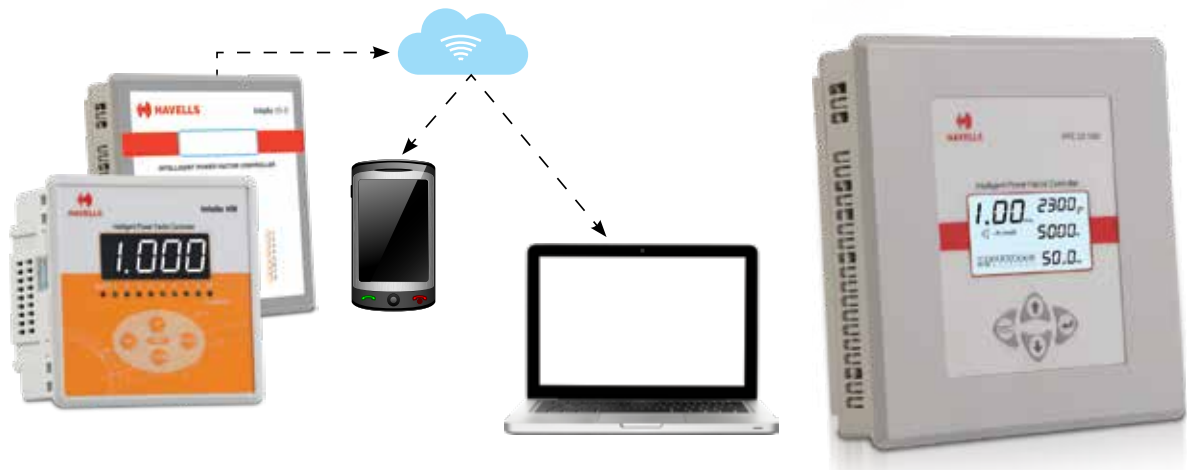
Rating kVAr	Cat. Code	Description	Per Unit LP (₹)
<b>Rated Voltage 440 V AC, F = 50 Hz, P = 7% ( Fr = 133 Hz) / Linearity: L &gt; 0.95 Lr for current up to 1.85 . I1, (Copper)</b>			
1 kVAr	QHHTLCV001X0	H. D.- REACTOR, 7% CU, 01 kVAr 440 V AC	8355.00
2 kVAr	QHHTLCV002X0	H. D.- REACTOR, 7% CU, 02 kVAr 440 V AC	9125.00
3 kVAr	QHHTLCV003X0	H. D.- REACTOR, 7% CU, 03 kVAr 440 V AC	10345.00
4 kVAr	QHHTLCV004X0	H. D.- REACTOR, 7% CU, 04 kVAr 440 V AC	10995.00
5 kVAr	QHHTLCV005X0	H. D.- REACTOR, 7% CU, 05 kVAr 440 V AC	12815.00
10 kVAr	QHHTLCV010X0	H. D.- REACTOR, 7% CU, 10 kVAr 440 V AC	17910.00
12.5 kVAr	QHHTLCV012X5	H. D.- REACTOR, 7% CU, 12.5 kVAr 440 V AC	18425.00
15 kVAr	QHHTLCV015X0	H. D.- REACTOR, 7% CU, 15 kVAr 440 V AC	26405.00
20 kVAr	QHHTLCV020X0	H. D.- REACTOR, 7% CU, 20 kVAr 440 V AC	27330.00
25 kVAr	QHHTLCV025X0	H. D.- REACTOR, 7% CU, 25 kVAr 440 V AC	27845.00
50 kVAr	QHHTLCV050X0	H. D.- REACTOR, 7% CU, 50 kVAr 440 V AC	42000.00
75 kVAr	QHHTLCV075X0	H. D.- REACTOR, 7% CU, 75 kVAr 440 V AC	69270.00
100 kVAr	QHHTLCV100X0	H. D.- REACTOR, 7% CU, 100 kVAr 440 V AC	89025.00
<b>Rated Voltage 440 V AC, F = 50 Hz, P = 14% ( Fr = 189 Hz) / Linearity: L &gt; 0.95 Lr for current up to 1.85 . I1 (Copper)</b>			
5 kVAr	QHHTLCW005X0	H. D.- REACTOR, 14% CU, 05 kVAr 440 V AC	Price on Request
10 kVAr	QHHTLCW010X0	H. D.- REACTOR, 14% CU, 10 kVAr 440 V AC	
12.5 kVAr	QHHTLCW012X5	H. D.- REACTOR, 14% CU, 12.5 kVAr 440 V AC	
15 kVAr	QHHTLCW015X0	H. D.- REACTOR, 14% CU, 15 kVAr 440 V AC	
20 kVAr	QHHTLCW020X0	H. D.- REACTOR, 14% CU, 20 kVAr 440 V AC	
25 kVAr	QHHTLCW025X0	H. D.- REACTOR, 14% CU, 25 kVAr 440 V AC	
50 kVAr	QHHTLCW050X0	H. D.- REACTOR, 14% CU, 50 kVAr 440 V AC	
75 kVAr	QHHTLCW075X0	H. D.- REACTOR, 14% CU, 75 kVAr 440 V AC	
100 kVAr	QHHTLCW100X0	H. D.- REACTOR, 14% CU, 100 kVAr 440 V AC	

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

# Intelligent Power Factor Controller

IEC: 61010-1



Range:

- 08 and 12 Steps
- 1CT & 3 CT version
- 7 segment LED display
- Size: 96 mm x 96 mm & 144 mm x 144 mm

Features:

- LCD Type with dual colour backlight
- Auxiliary supply 90 V AC - 550 V AC
- Dual Password Protection
- Automatic CT Polarity detection
- NTC Temperature Sensor
- Communication Interface RS 485 & ModBus RTU (Only for 12 Relay option)
- Power Factor Measurement Range: 0.8 lag to 0.8 lead
- Advance Micro-Controller based logic
- Data logging facility (optional)

HSN Code: 85364900

Steps	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
Intelligent Power Factor Controller (IPFC CS- 1001) 1 CT					
8 ▲	QHOSBS5D0008	IPFC CS 96 x 96	1 N	5 N	7440.00
8 ▲	QHOSBS5N0008	IPFC CS 144 x 144	1 N	5 N	12290.00
12 ▲	QHOSBS5N0012	IPFC CS 1001-112-90 V / 550 V AC 144 x 144	1 N	5 N	14265.00
Intelligent Power Factor Controller (IPFC CS- 1003) 3 CT					
8 ▲	QHOTBS5H0008	IPFC CS 1001-112-90 V / 550 V AC 144 x 144	1 N	5 N	19700.00
12 ▲	QHOTBS5H0012	IPFC CS 1003-312-90 V / 550 V AC 144 x 144	1 N	5 N	24575.00

## Capacitor Switching Solutions

- Fast Switching Speed
- High power handling capacity
- Low losses
- Reliability and longebity
- Real time power factor correccion



## Thyristor Switch

HSN Code: 85371000

Cat. Code	Description	Per Unit LP (₹)
QHZCF00111	Thyristor Switch 15 kVAr	33315.00
QHZCF00121	Thyristor Switch 25 kVAr	38010.00
QHZCF00131	Thyristor Switch 50 kVAr	45705.00
QHZCF00141	Thyristor Switch 100 kVAr	68775.00

Other Ratings on request

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 93**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Magnetic Contactor

## Capacitor Duty Contactor



### Features:

- Range : 3 kVAr to 66 kVAr
- De-latching Type design of Resistor Switching Block
- Low VA Burden Wide operating band coils with Class H Insulation
- Common accessories with HGS Range
- High Operating Frequency - 240 Operations per hour
- Handle high inrush current capability
- Utilization category AC-6b
- Finger proof IP20 terminals



HSN Code: 85369090

Frame Size	kVAr Rating AC-6b	Inst. Aux. Contact		Item Code	Per Unit LP (₹)
	415 V / 440 V	NO	NC		
1	3 kVAr ▲	1	0	IHPHE003110*	2700.00
	3 kVAr	0	1	IHPHE003101*	2700.00
	5 kVAr ▲	1	0	IHPHE005110*	2835.00
	5 kVAr	0	1	IHPHE005101*	2835.00
	10 kVAr ▲	1	0	IHPHE010110*	3430.00
	10 kVAr	0	1	IHPHE010101*	3430.00
	12.5 kVAr	1	0	IHPHE12X110*	3875.00
	12.5 kVAr	0	1	IHPHE12X101*	3875.00
	15 kVAr ▲	1	0	IHPHE015110*	4745.00
	15 kVAr	0	1	IHPHE015101*	4745.00
2	20 kVAr ▲	1	0	IHPHE020210*	5215.00
	20 kVAr	0	1	IHPHE020201*	5215.00
	25 kVAr ▲	1	0	IHPHE025210*	5945.00
	25 kVAr	0	1	IHPHE025201*	5945.00
	33.3 kVAr	1	0	IHPHE33X210*	8620.00
	33.3 kVAr	0	1	IHPHE33X201*	8620.00
3	33.3 kVAr	1	1	IHPHE33X311*	10395.00
	40 kVAr	2	2	IHPHE040322*	15975.00
4	50 kVAr ▲	2	2	IHPHE050422*	16620.00
	66 kVAr	2	2	IHPHE066422*	19500.00

\*To complete the Item Code suffix the coil voltage from the coil voltage table

33.3 kVAr contactor in Frame-3 can be used where higher terminal capacity is required.

## Coil Voltage Selection Table

3 kVAr - 66 kVAr AC Coil

Product	110 V AC	240 V AC	415 V AC	150 V AC - 300 V AC	260 V AC - 440 V AC
HGS Capacitor Duty Contactor (3 kVAr - 66 kVAr)	H	N ▲	T	S ▲	W

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

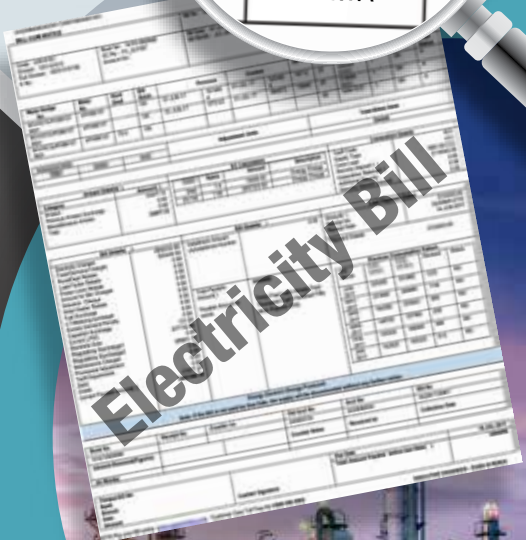


**Why pay more  
due to low Power Factor**

**INSTALL APFC PANEL  
& SAVE MONEY  
BY REDUCING kVAh**

*Is still there a difference in kVAh and kWh in your  
Electricity Bill due to low Power Factor ?*

0	334240 kVAh
20	318980 kWh
	1404 kVA



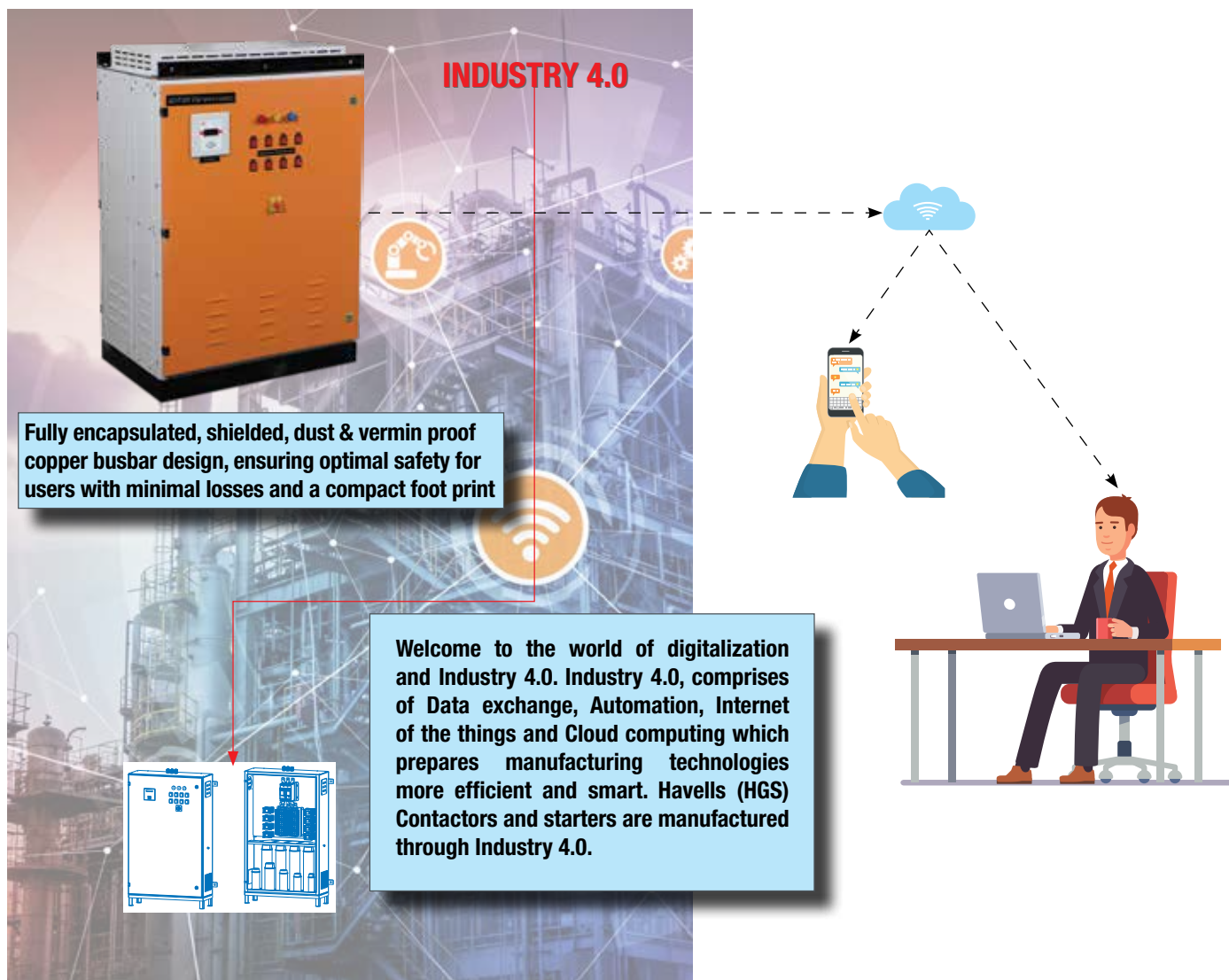
**Features**

- Ergonomic, compact and robust design
- Designed with 100% copper conductor
- Advance C-MOS technology based micro processor for intelligent power factor control

Automatic temp. control through fans and louvers in panel



# Smarty - Automatic Power Factor Correction Panel



**INDUSTRY 4.0**

Fully encapsulated, shielded, dust & vermin proof copper busbar design, ensuring optimal safety for users with minimal losses and a compact foot print

Welcome to the world of digitalization and Industry 4.0. Industry 4.0, comprises of Data exchange, Automation, Internet of the things and Cloud computing which prepares manufacturing technologies more efficient and smart. Havells (HGS) Contactors and starters are manufactured through Industry 4.0.

## Range

- ▶ Output Rating: 10 kVAR - 350 kVAR as a standard SKU
- ▶ Other ratings 350 kVAR above on request
- ▶ Switching: Contactor / Thyristorised (Ultra Fast)
- ▶ APFC with Thyristor available on request

## Features

- ▶ Ergonomic, compact and robust design
- ▶ Designed with Fully copper conductor
- ▶ Super Heavy Duty Capacitor power capacitor for long life
- ▶ Advance C-MOS technology based micro processor relay for intelligent power factor control
- ▶ Air core reactor for extra safety from inrush current (High currents)
- ▶ Automatic temp. control through fans and louvers in panel

## Construction

- ▶ Manufactured with highly precise modern Amada CNC machine
- ▶ 11 tank process for corrosion proof powder coating
- ▶ Provision of top and bottom cable entry
- ▶ Double side earthing connection
- ▶ IP 30 & above as per customer demand
- ▶ Ref. Standard: IS 16636 / IEC 61439

## Principle Operation

- ▶ To continuously sense and monitor the load conditions by the use of the external CT (whose output is fed to the control relay).
- ▶ To automatically switch ON and switch OFF relevant capacitor steps to ensure consistent power factor.
- ▶ To ensure easy user interface for enabling reliable understanding of system operation, such as display of real time power factor, number of switching operations carried out etc.
- ▶ To protect against any electrical faults in a manner that will ensure safe isolation of the power factor correction equipment.

# Smarty - Automatic Power Factor Correction Panel

IEC: 61921 / IS: 16636

## APFC Panel without Reactor

HSN Code: 85371000

Rating kVAr	Cat. Code	Description	Main Incomer	Per Unit LP (₹)
Rated Voltage 415 V AC, 3 $\phi$ , 50 Hz, Delta Connection, Super Heavy Duty Cylindrical Capacitor				
15 kVAr	QHXTCB5015X0	15 kVAr / 415 V APFC Panel CYCAP	MCB 40 A / 10 kA	78750.00
20 kVAr	QHXTCB5020X0	20 kVAr / 415 V APFC Panel CYCAP	MCB 40 A / 10 kA	85050.00
25 kVAr	QHXTCB5025X0	25 kVAr / 415 V APFC Panel CYCAP	MCB 63 A / 10 kA	95025.00
30 kVAr	QHXTCB5030X0	30 kVAr / 415 V APFC Panel CYCAP	MCB 63 A / 10 kA	113400.00
40 kVAr	QHXTCB5040X0	40 kVAr / 415 V APFC Panel CYCAP	MCCB 100 A / 25 kA	154550.00
50 kVAr	QHXTCB5050X0	50 kVAr / 415 V APFC Panel CYCAP	MCCB 100 A / 25 kA	174090.00
75 kVAr	QHXTCB5075X0	75 kVAr / 415 V APFC Panel CYCAP	MCCB 160 A / 25 kA	257250.00
80 kVAr	QHXTCB5080X0	80 kVAr / 415 V APFC Panel CYCAP	MCCB 160 A / 25 kA	273525.00
100 kVAr	QHXTCB5100X0	100 kVAr / 415 V APFC Panel CYCAP	MCCB 160 A / 25 kA	299775.00
125 kVAr	QHXTCB5125X0	125 kVAr / 415 V APFC Panel CYCAP	MCCB 250 A / 25 kA	414750.00
150 kVAr	QHXTCB5150X0	150 kVAr / 415 V APFC Panel CYCAP	MCCB 320 A / 35 kA	471975.00
175 kVAr	QHXTCB5175X0	175 kVAr / 415 V APFC Panel CYCAP	MCCB 320 A / 35 kA	521850.00
200 kVAr	QHXTCB5200X0	200 kVAr / 415 V APFC Panel CYCAP	MCCB 400 A / 35 kA	598185.00
250 kVAr	QHXTCB5250X0	250 kVAr / 415 V APFC Panel CYCAP	MCCB 500 A / 35 kA	740985.00
300 kVAr	QHXTCB5300X0	300 kVAr / 415 V APFC Panel CYCAP	MCCB 630 A / 50 kA	855750.00
350 kVAr	QHXTCB5350X0	350 kVAr / 415 V APFC Panel CYCAP	MCCB 630 A / 50 kA	963375.00

\* for Higher rating please contact our branch office

## APFC Technical Details

Rating kVAr	Stages	Dimensions HeightXWidthXDepth (mm)
Rated Voltage 415 V AC, 3 $\phi$ , 50 Hz, Delta Connection, Super Heavy Duty Cylindrical Capacitor		
15 kVAr	2 (4 kVAr) + 3 (2 kVAr) + 1 (1 kVAr)	(650x600x200) mm
20 kVAr	2 (5 kVAr) + 2 (3 kVAr) + 2 (2 kVAr)	(650x600x200) mm
25 kVAr	4 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(650x600x200) mm
30 kVAr	1 (10 kVAr) + 3 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(900x600x200) mm
40 kVAr	2 (12.5 kVAr) + 2 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(900x600x200) mm
50 kVAr	3 (12.5 kVAr) + 1 (7.5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(900x600x200) mm
75 kVAr	2 (20 kVAr) + 2 (10 kVAr) + 2 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(1100x700x250) mm
80 kVAr	2 (20 kVAr) + 2 (12.5 kVAr) + 2 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(1100x700x250) mm
100 kVAr	4 (20 kVAr) + 1 (10 kVAr) + 1 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(1100x700x250) mm
125 kVAr	1 (50 kVAr) + 2 (25 kVAr) + 1 (10 kVAr) + 2 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(1175x800x540) mm
150 kVAr	2 (50 kVAr) + 1 (25 kVAr) + 1 (10 kVAr) + 2 (5 kVAr) + 1 (3 kVAr) + 1 (2 kVAr)	(1175x800x540) mm
175 kVAr	2 (50 kVAr) + 2 (25 kVAr) + 1 (10 kVAr) + 3 (5 kVAr)	(1175x800x540) mm
200 kVAr	3 (50 kVAr) + 1 (25 kVAr) + 1 (10 kVAr) + 3 (5 kVAr)	(1175x800x540) mm
250 kVAr	4 (50 kVAr) + 1 (25 kVAr) + 2 (10 kVAr) + 1 (5 kVAr)	(1175x800x540) mm
300 kVAr	1 (100 kVAr) + 3 (50 kVAr) + 1 (25 kVAr) + 2 (10 kVAr) + 1 (5 kVAr)	(1675x1200x700) mm
350 kVAr	2 (100 kVAr) + 2 (50 kVAr) + 1 (25 kVAr) + 2 (10 kVAr) + 1 (5 kVAr)	(1675x1200x700) mm

## APFC Panel with Detuned Reactor / Thyristor Switching

Rating kVAr	Cat. Code	Description	Per Unit LP (₹)
10 kVAr - 1000 kVAr		10 kVAr -1000 kVAr APFC Panel	Price on Request

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS** 97

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com

# Active Harmonic Filters & SVG Panels Stack Design



## IEEE 519-2014 Guidelines for Harmonics Limits

Table 2 - Current distortion limits for systems rated 120 V through 69 kV

Maximum harmonic current distortion in percent of $I_L$						
Individual harmonic order (odd harmonics) <sup>a, b</sup>						
$I_h/I_L$	$3 \leq h < 11$	$11 \leq h < 17$	$17 \leq h < 23$	$23 \leq h < 35$	$35 \leq h \leq 50$	TDD
<20	4.0	2.0	1.5	0.6	0.3	5.0
20<50	7.0	3.5	2.5	1.0	0.5	8.0
50<100	10.0	4.5	4.0	1.5	0.7	12.0
100<1000	12.0	5.5	5.0	2.0	1.0	15.0
>1000	15.0	7.0	6.0	2.5	1.4	20.0

## AHF Technical



System Connection	3 P / 3 W or 3 P / 4 W
Design	Stack / Modular Design
Input Voltage	415 V (+/-10%) and 50 Hz (+/-)5% other rating on request
Phase compensation current range	15 A - 1000 A (other ratings on request)
Technology	Two Level Topology / Three Level Topology
Harmonic filtration range	2nd to 51st order
Individual harmonic selection	Available
Power factor compensation	100% (Lead / Lag)
Load Balancing	Negative Sequence Compensation (Zero Sequence compensation in 3 P / 4 W range)
Neutral Current Compensation	Available
Reaction time	<0.3 ms
Interface (Communication)	GSM, MODBUS RTU, USB, Ethernet, Profibus Compatible
IP Protection Class	IP-30 and higher on request
System Cooling	Forced air colling
Overheating Protection	Yes
Relative Humidity	96% (Non condensing)
Ambient Temperature	No deration upto 50 °C

Rating	Cat. Code	Description	Per Unit LP (₹)
50 A - 1000 A		50 A -1000 A AHF Panel	Price on Request
50 kVAr - 1000 kVAr		50 kVAr -1000 kVAr SVG Panel	



## Active Harmonic Filters / SVG Modules

### Features

- Compact Design
- 3Phase 3 wire, 3Phase 4 wire
- Complete Harmonics Mitigation
- Compliance of IEEE 519
- Load Balancing
- Step Less Power Factor Correction
- Neutral Compensation
- Reduction of power losses
- IGBT based Ultra fast compensation



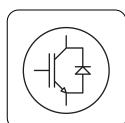
Rating in (A)	Cat No.	Description	Per Unit MRP (₹)
30 A	On Request	30 A / 415 AHF Module	On Request
50 A		50 A / 415 AHF Module	
75 A		75 A / 415 AHF Module	
100 A		100 A / 415 AHF Module	
125 A		125 A / 415 AHF Module	
150 A		150 A / 415 AHF Module	



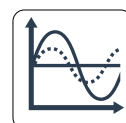
Rating in (kVAr)	Cat No.	Description	Per Unit MRP (₹)
30 kVAr	On Request	30 A / 415 SVG Module	On Request
50 kVAr		50 A / 415 SVG Module	
75 kVAr		75 A / 415 SVG Module	
100 kVAr		100 A / 415 SVG Module	
125 kVAr		125 A / 415 SVG Module	
150 kVAr		150 A / 415 SVG Module	



Reduction of power losses



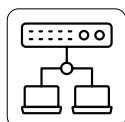
IGBT Based Technology



Harmonic Corrections



Compliance of IEEE 519



Load Balancing



Communication with RS-485 Port

# Consulting, Optimizing & Delivering Performance

## Power Quality Audit Scope

- Capturing load profile of all relevant sections (with non linear loads) starting with the PCC.
- Checking effectiveness of installed Reactive power compensation system
- Identify zones of failures harmonic.
- Study electricity bills and identify scope of optimization in energy consumption pattern.

## Final Deliverables

- A summary of various electrical parameters & recorded trends.
- Analysis of above data mentioning Key high lights
- Recommended Solution address the various power quality issues identified
- Estimate Potential Saving - Estimate the direct savings and provide ROI calculation (wherever applicable).



# Agriculture Duty Capacitor



- Range : 1 kVAr to 15 kVAr
- Voltage 415 V
- MPP SH, Resin Velled
- Low Watt loss

## Agri Boost Cylindrical Capacitors for Agriculture Applications

HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
<b>Rated Voltage 415 V AC, 3φ, 50 Hz, Delta Connection</b>					
1 kVAr ▲	QHATCB5001X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-1 kVAr 3 PH	1 N	16 N	370.00
2 kVAr ▲	QHATCB5002X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-2 kVAr 3 PH	1 N	16 N	415.00
3 kVAr ▲	QHATCB5003X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-3 kVAr 3 PH	1 N	16 N	605.00
4 kVAr ▲	QHATCB5004X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-4 kVAr 3 PH	1 N	16 N	750.00
5 kVAr ▲	QHATCB5005X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-5 kVAr 3 PH	1 N	16 N	905.00
6 kVAr ▲	QHATCB5006X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-6 kVAr 3 PH	1 N	16 N	1085.00
7.5 kVAr	QHATCB5007X5	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-7.5 kVAr 3 PH	1 N	16 N	1355.00
8 kVAr ▲	QHATCB5008X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-8 kVAr 3 PH	1 N	16 N	1445.00
10 kVAr ▲	QHATCB5010X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-10 kVAr 3 PH	1 N	16 N	1805.00
12.5 kVAr ▲	QHATCB5012X5	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-12.5 kVAr 3 PH	1 N	8 N	2255.00
15 kVAr ▲	QHATCB5015X0	AGRI BOOST <sup>ND</sup> 415 V 50 Hz-15 kVAr 3 PH	1 N	8 N	2705.00

▲ Stockable Item

For details on technical parameters & non stockable items contact nearest sales office.

(IS: 13340)

Effective from 11th March, 2025

List Price (LP) are in Indian ₹ & as per Standard Terms & Conditions

**HAVELLS 101**

INDERSONS, S-11 Rajouri Garden, New Delhi 110027 email: sales@indersonsindia.com



**HAVELLS**

**Warranty Policy:**

All the products listed in the price list carry a warranty, against manufacturing defects for a period of 18\* months from the date of purchase / 12 months from the date of commissioning, whichever is earlier.

\*Proof of purchase to be retained to avail warranty.

Actual products may vary in colour, design, description and colour combination etc. Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication. Specifications & performance data are constantly changing.

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- Prices are in Indian ₹.
- 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.
- Prices are for quantity 1 N is equal to font height of LP value

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