Powering Lives...

HAVELLS

LV SWITCHGEAR, CONTROLGEAR & POWER QUALITY SOLUTIONS

Pricelist w.e.f. 15st September, 2026

CONTENTS

Powergear

Titania Air Circuit Breaker 11
QTRON Moulded Case Circuit Breaker 19
ATRON Moulded Case Circuit Breaker 24
Loadline Moulded Case Circuit Breaker 26
Hi Pan 32
PowerSafe Load Bank MCCB Panel Boards 32
Busbar Chamber 35
InstaShift Manual Changeover Switch 36
InstaShift Motorised Changeover Switch 36
InstaShift Automatic Changeover Switch 37
Instaprime Automatic Transfer Switch 38
Euroload Changeover Switch 39
Euroload By-Pass Changeover Switch 39
Euroload Switch Disconnector 40
Kompact Switch Disconnector Fuse 41
Hibreak Fuse Base 43
HBC Fuse Link 44

Controlgear

3 Pole Power Contactors 49
4 Pole, 2 Pole Power Contactors & Control Relay 50
3 Pole HGS R Contactors 51
Accessories - HGS Series Contactors 53
Thermal Overload Relay - HGST 54
Capacitor Duty Contactors 55
Manual Motor Starter & Accessories - HGSM 58
Manual Motor Starter & Accessories - HGSTMR / HGSMR 59
Industrial Motor Starter, Submersible Motor Starter & Spares - HGS 63
Agricultural Motor Starter - Urjalite DOL Starter, Urja DOL Starter 68
Urja DOL Submersible & ASD Submersible Starter 69
Urja Kavach - Single Phase Submersible Controller (STD) 71
Urja Contactor 4 P & 2 P, Thermal Overload Relay 3 P & 2 P 72
Spares & Accessories - Urja 73
Lighting Feeder Panel 76

Power Quality Solutions

Single Phase Capacitors 80
Cylindrical Capacitors (MPP Type) 80
Box Capacitors (MPP Type) 82
HD Harmonic Detuned Reactors 85
IPFC Relay 87
Thyristor Switch 87
Capacitor Duty Contactor 88
APFC Panel 91
Active Harmonic Filter 93
Agri Boost Capacitors 95

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 | **~18000** Strong Dealer Network | **4** Research Centres | **48** Offices

HAVELLS | LLOYD | HAVELLS Crabtree | HAVELLS STUDIO | REO | STANDARD

DRIVEN BY INNOVATION. POWERED BY INDIA.

Innovation | Technology | Digitalization

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

Powergear

COMING SOON

ZTRONN ACB

The New Standard in Power Protection

POWER PROTECTION INTELLIGENCE

Engineered for modern power distribution systems, the all-new ZTRONN ACB is set to redefine reliability, safety and operational excellence for all critical electrical installations.

Stay Tuned. ZTRONN ACB is Arriving Soon!

Titania

Air Circuit Breaker

400 A – 3200 A

Breaking Capacity @ 415 V	E Frame	S Frame	H Frame
	400 A - 2000 A	**400 A - 2000 A**	**2500 A - 3200 A**
Ics=100% Icu	50 kA	65 kA	65 kA
Icw for 1 s	50 kA	50 kA	65 kA

Titania+

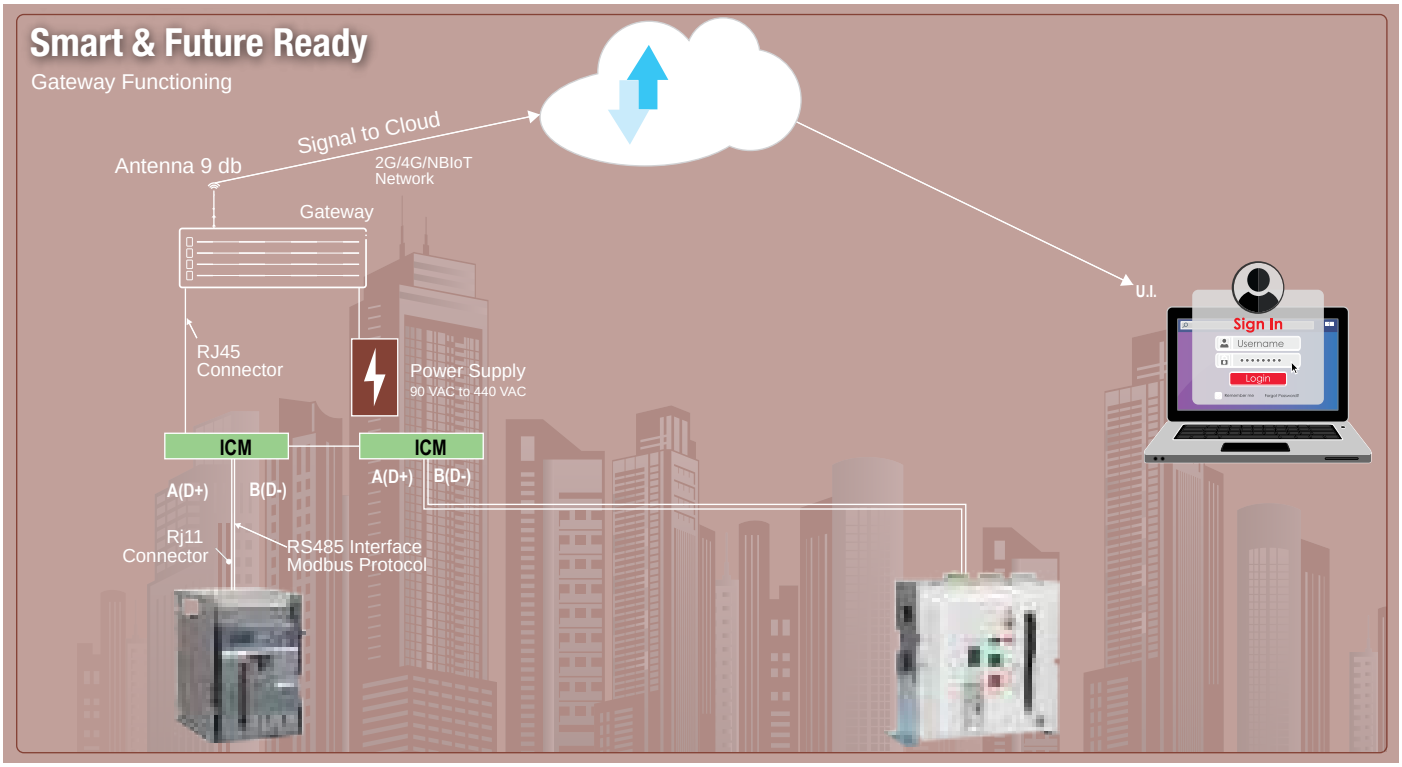
Air Circuit Breaker

630 A – 6300 A

Breaking Capacity @ 415 V	A Frame	AA Frame	B Frame	C Frame	D Frame
	630 A - 1600 A	**2000 A - 2500 A**	**3200 A - 4000 A**	**5000 A**	**6300 A**
Ics=100% Icu	65 kA	85 kA	100 kA	100 kA	150 kA
Icw for 1 s	50 kA	70 kA	85 kA	85 kA	100 kA

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
(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**#	225725.00	IHATE21060**#	293425.00	IHATE4106$**#	IHATE5106$**#
800 A	50 kA	IHATE11080**#	225725.00	IHATE21080**#	293425.00	IHATE4108$**#	IHATE5108$**#
1000 A	50 kA	IHATE11100**#	230075.00	IHATE21100**#	304300.00	IHATE4110$**#	IHATE5110$**#
1250 A	50 kA	IHATE11120**#	257000.00	IHATE21120**#	329200.00	IHATE4112$**#	IHATE5112$**#
1600 A	50 kA	IHATE11160**#	280275.00	IHATE21160**#	358250.00	IHATE4116$**#	IHATE5116$**#
2000 A	50 kA	IHATE11200**#	323600.00	IHATE21200**#	432325.00	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**#	245700.00	IHATS21060**#	378275.00	IHATS4106$**#	IHATS5106$**#
800 A	65 kA	IHATS11080**#	245700.00	IHATS21080**#	378275.00	IHATS4108$**#	IHATS5108$**#
1000 A	65 kA	IHATS11100**#	257100.00	IHATS21100**#	415850.00	IHATS4110$**#	IHATS5110$**#
1250 A	65 kA	IHATS11120**#	318225.00	IHATS21120**#	469375.00	IHATS4112$**#	IHATS5112$**#
1600 A	65 kA	IHATS11160**#	336775.00	IHATS21160**#	510475.00	IHATS4116$**#	IHATS5116$**#
2000 A	65 kA	IHATS11200**#	361700.00	IHATS21200**#	542200.00	IHATS4120$**#	IHATS5120$**#
2500 A	65 kA	IHATN11250**#	419575.00	IHATN21250**#	635950.00	IHATN4125$**#	IHATN5125$**#
3200 A	65 kA	IHATN11320**#	525425.00	IHATN21320**#	694925.00	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	IHAFE11060**#	270975.00	IHAFE21060**#	362975.00	IHAFE4106$**#	IHAFE5106$**#
800 A	50 kA	IHAFE11080**#	270975.00	IHAFE21080**#	362975.00	IHAFE4108$**#	IHAFE5108$**#
1000 A	50 kA	IHAFE11100**#	283025.00	IHAFE21100**#	387975.00	IHAFE4110$**#	IHAFE5110$**#
1250 A	50 kA	IHAFE11120**#	304775.00	IHAFE21120**#	417450.00	IHAFE4112$**#	IHAFE5112$**#
1600 A	50 kA	IHAFE11160**#	343925.00	IHAFE21160**#	458600.00	IHAFE4116$**#	IHAFE5116$**#
2000 A	50 kA	IHAFE11200**#	407075.00	IHAFE21200**#	546075.00	IHAFE4120$**#	IHAFE5120$**#

* 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

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**#	293575.00	IHAFS21060**#	534425.00	IHAFS4106$**#	IHAFS5106$**#
800 A	65 kA	IHAFS11080**#	293575.00	IHAFS21080**#	534425.00	IHAFS4108$**#	IHAFS5108$**#
1000 A	65 kA	IHAFS11100**#	339825.00	IHAFS21100**#	548300.00	IHAFS4110$**#	IHAFS5110$**#
1250 A	65 kA	IHAFS11120**#	396350.00	IHAFS21120**#	638875.00	IHAFS4112$**#	IHAFS5112$**#
1600 A	65 kA	IHAFS11160**#	472300.00	IHAFS21160**#	747950.00	IHAFS4116$**#	IHAFS5116$**#
2000 A	65 kA	IHAFS11200**#	505100.00	IHAFS21200**#	763400.00	IHAFS4120$**#	IHAFS5120$**#
2500 A	65 kA	IHAFN11250**#	547275.00	IHAFN21250**#	760850.00	IHAFN4125$**#	IHAFN5125$**#
3200 A	65 kA	IHAFN11320**#	641725.00	IHAFN21320**#	834250.00	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	32475.00
Micro processor release IPRE+ (LI)	Reduce	14075.00
Micro processor release IPR3+ (LSIG+ LCD Display+Thermal Memory+ Zone selectivity+ Current & Voltage Mesurment+ Advance protection +Over Tempeture Protection)	Add	46450.00
Micro processor release IPR5+(LCD Display+Thermal Memory+ Zone selectivity+ Advance protection+ Advance Mesurment Over Tempeture Protection+ Maximum Demand + Comunication)	Add	64625.00
To Convert Electrical version from Manual version (includes Motor, Shunt trip & Closing Coil)	Add	73325.00

1. Spring Charging Motor

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0358	Charging Motor 110 V	62625.00
ISACX0147	Charging Motor 230 V	62625.00

2. Shunt Trip / Closing Coil

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0170	24 VDC	5350.00
ISACX0168	110 V AC/DC	5350.00
ISACX0167	220 V AC/DC	5350.00
ISACX0212	415 V AC	5350.00

Shunt Trip Coil / Closing Coil

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	7400.00
ISACX0197	415 V AC	7400.00

* 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

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

5. Main CT's

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ICELFACL018	CT 400 A	5075.00
ICELFACL001	CT 630 A	5075.00
ICELFACL002	CT 800 A	5075.00
ICELFACL003	CT 1000A	5350.00
ICELFACL004	CT 1250 A	5350.00
ICELFACL005	CT 1600 A	5350.00
ICELFACL006	CT 2000 A	7175.00
ICELFACL007	CT 2500A	7175.00

6. Neutral CTs

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ICELFACL019	NCT 400 A	5075.00
ICELFACL012	NCT 630 A	5075.00
ICELFACL013	NCT 800 A	5075.00
ICELFACL014	NCT 1000A	5350.00
ICELFACL015	NCT 1250 A	5350.00
ICELFACL016	NCT 1600 A	5350.00
ICELFACL017	NCT 2000 A	7175.00
ICELFACL021	NCT 2500A	7175.00

7. Key Lock / Key Interlock

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0301	On/Off Button cover	625.00
ISACX0353	Key lock (1 lock+1 key)	2600.00
-	Key interlock (2 locks+1 keys)	3625.00
-	Key interlock (3 locks+2 keys)	7625.00
ISACX0341	Drawout position Lock	3150.00

8. Adaptor Type Terminals (additional price)

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISSACX0174	630/800/1000/1250 A	9650.00
ISSACX0164	1600 A	10600.00
ISSACP0434	2000 A	15000.00

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

9. Other Accessories

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0208	Door Interlook	4600.00
ISACX0028	Close open cycle counter	4525.00

10. Other Accessories

HSN Code: 85389000

SAP Code	Description	Per Unit LP (₹)
ISACX0207	Spring charge indication switch	3000.00
ISACX0349	Trip indication Switch	1900.00
ISACX0139	Aux. switch (5 c/o additional)	4625.00
ISACX0182	Position indication switch	3300.00
ISACX0302	Field test unit	4425.00

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)

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:

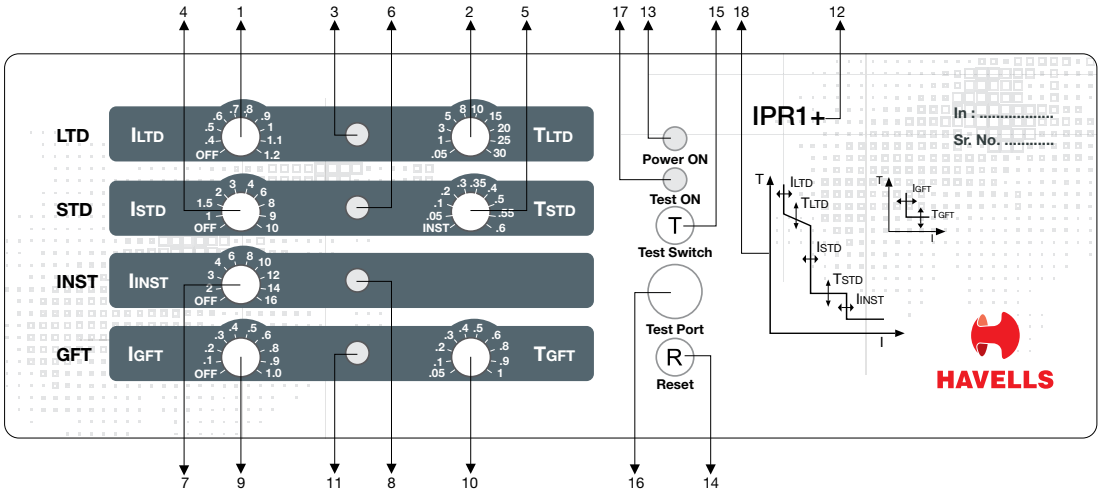
Manual Fixed	Manual Drawout	Electrical Fixed	Electrical Drawout
Aux. Contact Unit 5CO	Aux. Contact Unit 5CO Safety Shutter Aux. Isolating contact unit Horizontal Terminals	Horizontal Terminals Shunt Trip Device Charging Motor Closing Coil	Aux. Contact Unit 5CO Safety Shutter Aux. Isolating contact unit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

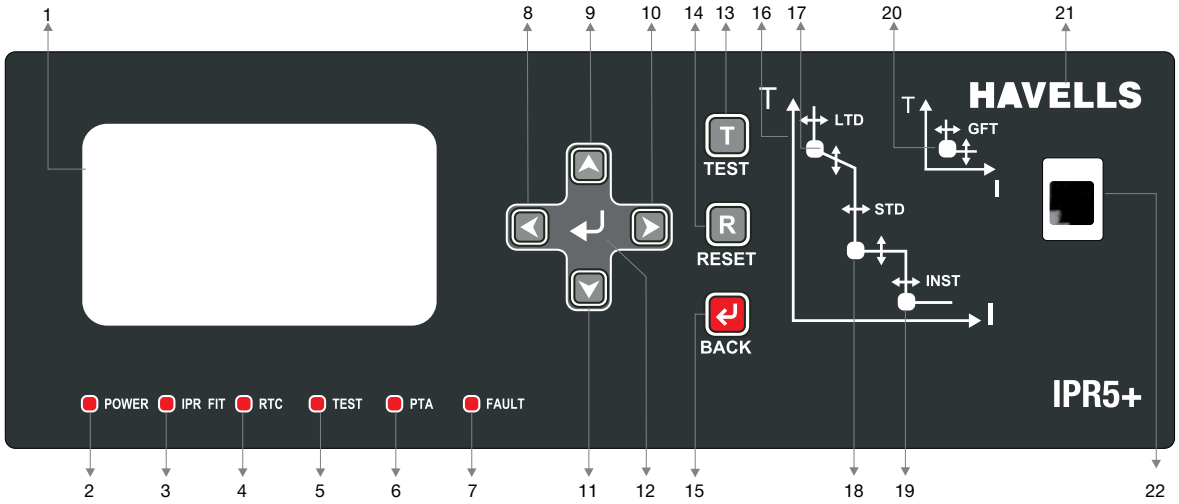
*1 This CT is required for GFT in 3 pole ACBs for 4 Pole ACBs main CTs is used as neutral CT.

* 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

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 characterstics 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 Characterstic Curvev
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	Current Setting	●	●	●	●
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	I2t 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 (^{0}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 requrest.
Note: IPR+ releases do not require any extenmal 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	100 kA					
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[1)]	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 interloacking	-	●	●	●
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.

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

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 ☐ 1000 A ☐ 1600 A ☐ 2500 A ☐ 4000 A ☐ 6300 A ☐ 800 A ☐ 1250 A ☐ 2000 A ☐ 3200 A ☐ 5000 A ☐	Qty.
Breaking Capacity Icu	Upto 2500 A 50 kA ☐ 65 kA ☐ 75 kA ☐ 3200 A to 6300 A 100 kA ☐ 150 kA ☐	
No. of Poles	3 ☐ 4 ☐ (100% Neutral) 4 ☐ (50% Neutral for V-Series only)	
Mounting	Fixed ☐ Drawout ☐ — Standard (for E&S series) ☐ / Vertical terminals (for H&V series) ☐ Note: For E & S series - Adapter terminals are on demand	
Spring Charging Operation	Manual ☐ Electrical ☐ — Closing Coil _____VAC/DC; Tripping Coil_____ VAC/DC; Motor _____ V	
Release	Upto 2500 A: ☐ Without Release ☐ IPR E+ ☐ IPR 1+ ☐ IPR 3+ ☐ IPR 5+ 3200 A to 6300 A: ☐ Without Release ☐ LN ☐ LA ☐ LP ☐ LH Setting: O/L _____ A, S/C _____ A, Inst. _____ A, GFT _____ A, CT Rating _____ A, Neutral CT ☐ **Note:** Unless otherwise specified O/L will be set at maximum value and all other settings would be set at mid values.	
Other Accessories	Close open cycle counter ☐ Five c/o additional Aux. contacts ☐ Field test unit ☐ Shunt Trip ☐ Position Indication Switch ☐ UVT ☐ Spring Charge Indication Switch ☐ Trip Indication Switch ☐ Door Interlock ☐ Key Interlock — 1 Lock+1Key ☐; 2 Lock+1Key ☐; 3 Lock+2Key ☐	

OFV-6

Note :
1. 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.
2. For details of Protection Releases, please refer the chart of technical features.

QTRON

Moulded Case Circuit Breaker

EFFICIENCY UNLEASHED
COMPACT, SAFE, RELIABLE

Range : 16 A – 630 A

No. of Poles : 3 Pole & 4 Pole

Breaking Capacity Ics = Icu = 100% upto 70 kA

Ambient Temperature 50 ^{0}C

Operational Voltage 690 V AC

Insulation Voltage 1000 V AC

Adjustable Thermal & Magnetic

Microprocesor Based – LSIG, Advance protection

Digital Display, Communication with Cloud connectivity

Specifications and Certifications

IEC 60947-1 & 2

RoHS Compliant

1 Compact Footprint

2 Current Limiting, outstanding single break

3 Line-Load Reversibility

4 Reliable breaking performance, Ics=100% Icu

5 Class II Insulation

6 Quick Toggle, Trip free mechanism

7 Positive Isolation

8 Suitable for harsh Environments

9 Trip Intelligence

10 Easy and Field Installable accessories

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

QTRON QT1

Moulded Case Circuit Breaker
(Conforms to IS/IEC 60947-2)

EFFICIENCY UNLEASHED
COMPACT, SAFE, RELIABLE

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	17200.00	IHQT1EB50016	21355.00
		25 A	IHQT1EB30025	17200.00	IHQT1EB50025	21355.00
		32 A	IHQT1EB30032	17200.00	IHQT1EB50032	21355.00
		40 A	IHQT1EB30040	17200.00	IHQT1EB50040	21355.00
		50 A	IHQT1EB30050	17200.00	IHQT1EB50050	21355.00
		63 A	IHQT1EB30063	16565.00	IHQT1EB50063 ▲	20570.00
		80 A	IHQT1EB30080	16565.00	IHQT1EB50080	20570.00
		100 A	IHQT1EB30100 ▲	16565.00	IHQT1EB50100 ▲	20570.00
		125 A	IHQT1EB30125	18630.00	IHQT1EB50125 ▲	22920.00
		160 A	IHQT1EB30160	24440.00	IHQT1EB50160 ▲	28990.00
50 kA		16 A	IHQT1FB30016	21120.00	IHQT1FB50016	25870.00
		25 A	IHQT1FB30025	21120.00	IHQT1FB50025	25870.00
		32 A	IHQT1FB30032	21120.00	IHQT1FB50032	25870.00
		40 A	IHQT1FB30040	21120.00	IHQT1FB50040	25870.00
		50 A	IHQT1FB30050	21120.00	IHQT1FB50050	25870.00
		63 A	IHQT1FB30063	20345.00	IHQT1FB50063 ▲	24920.00
		80 A	IHQT1FB30080	20345.00	IHQT1FB50080	24920.00
		100 A	IHQT1FB30100	20345.00	IHQT1FB50100	24920.00
		125 A	IHQT1FB30125	27070.00	IHQT1FB50125	31250.00
		160 A	IHQT1FB30160	30710.00	IHQT1FB50160	36770.00

Motor Protection MCCB

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 (₹)
50 kA	100%	40 A	IHQT1FD30040MP	9625.00
		50 A	IHQT1FD30050MP	9625.00
		63 A	IHQT1FD30063MP	9625.00
		80 A	IHQT1FD30080MP	9625.00
		100 A	IHQT1FD30100MP	12550.00
		125 A	IHQT1FD30125MP	12690.00
		160 A	IHQT1FD30160MP	15060.00

▲ 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. 21
It is recommended to use spreader terminals for enhancing termination capacity

QTRON QT2

Moulded Case Circuit Breaker

(Conforms to IS/IEC 60947-2)

EFFICIENCY UNLEASHED

COMPACT, SAFE, RELIABLE

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	25245.00	IHQT2EC50100	31235.00
		125 A	IHQT2EC30125	25245.00	IHQT2EC50125	31235.00
		160 A	IHQT2EC30160	32105.00	IHQT2EC50160	39610.00
		200 A	IHQT2EC30200	33365.00	IHQT2EC50200 ▲	41625.00
		250 A	IHQT2EC30250	37480.00	IHQT2EC50250 ▲	45705.00
50 kA		100 A	IHQT2FC30100	33725.00	IHQT2FC50100	41085.00
		125 A	IHQT2FC30125	33725.00	IHQT2FC50125	41085.00
		160 A	IHQT2FC30160	35645.00	IHQT2FC50160	44960.00
		200 A	IHQT2FC30200	38050.00	IHQT2FC50200	46910.00
		250 A	IHQT2FC30250	40775.00	IHQT2FC50250	51290.00

Microprocesser 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%	40 A	IHQT2EE30040	35740.00	IHQT2EE50040	39865.00
		63 A	IHQT2EE30063	35740.00	IHQT2EE50063	39865.00
		100 A	IHQT2EE30100	35740.00	IHQT2EE50100	39865.00
		160 A	IHQT2EE30160	45450.00	IHQT2EE50160	63160.00
		250 A	IHQT2EE30250	47725.00	IHQT2EE50250	66100.00
50 kA		40 A	IHQT2FE30040	42770.00	IHQT2FE50040	56710.00
		63 A	IHQT2FE30063	42770.00	IHQT2FE50063	56710.00
		100 A	IHQT2FE30100	42770.00	IHQT2FE50100	56710.00
		160 A	IHQT2FE30160	53035.00	IHQT2FE50160	67745.00
		250 A	IHQT2FE30250	54265.00	IHQT2FE50250	68770.00

Microprocesser MCCB - LSIG

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%	40 A	IHQT2EF30040	44640.00	IHQT2EF50040	55140.00
		63 A	IHQT2EF30063	44640.00	IHQT2EF50063	55140.00
		100 A	IHQT2EF30100	44640.00	IHQT2EF50100	55140.00
		160 A	IHQT2EF30160	60600.00	IHQT2EF50160	74160.00
		250 A	IHQT2EF30250	61800.00	IHQT2EF50250	75980.00
50 kA		40 A	IHQT2FF30040	51465.00	IHQT2FF50040	67610.00
		63 A	IHQT2FF30063	51465.00	IHQT2FF50063	67610.00
		100 A	IHQT2FF30100	51465.00	IHQT2FF50100	67610.00
		160 A	IHQT2FF30160	62545.00	IHQT2FF50160	76640.00
		250 A	IHQT2FF30250	63630.00	IHQT2FF50250	78075.00

Motor Protection MCCB

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 (₹)
50 kA	100%	200 A	IHQT2FD30200MP	28075.00
		250 A	IHQT2FD30250MP	32985.00

▲ 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. 21

It is recommended to use spreader terminals for enhancing termination capacity

For material availability please connect with nearest sales office.

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

QTRON QT3

Moulded Case Circuit Breaker

(Conforms to IS/IEC 60947-2)

QTRON 630

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%	250A	IHQT3EC30250	POR	IHQT3EC50250	POR
		320A	IHQT3EC30320		IHQT3EC50320	
		400A	IHQT3EC30400		IHQT3EC50400	
		500A	IHQT3EC30500		IHQT3EC50500	
		630A	IHQT3EC30630		IHQT3EC50630	
50 kA		250A	IHQT3FC30250		IHQT3FC50250	
		320A	IHQT3FC30320		IHQT3FC50320	
		400A	IHQT3FC30400		IHQT3FC50400	
		500A	IHQT3FC30500		IHQT3FC50500	
		630A	IHQT3FC30630		IHQT3FC50630	
70 kA		250A	IHQT3HC30250		IHQT3HC50250	
		320A	IHQT3HC30320		IHQT3HC50320	
		400A	IHQT3HC30400		IHQT3HC50400	

Microprocesser 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%	400A	IHQT3EE30400	67035.00	IHQT3EE50400	83035.00
		630A	IHQT3EE30630	75160.00	IHQT3EE50630	108305.00
50 kA		400A	IHQT3FE30400	74405.00	IHQT3FE50400	91340.00
		630A	IHQT3FE30630	79955.00	IHQT3FE50630	113130.00
70 kA		400A	IHQT3HE30400	94720.00	IHQT3HE50400	119135.00

Microprocesser MCCB - LSIG

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%	400A	IHQT3EF30400	75080.00	IHQT3EF50400	93000.00
		630A	IHQT3EF30630	84180.00	IHQT3EF50630	121300.00
50 kA		400A	IHQT3FF30400	83335.00	IHQT3FF50400	102300.00
		630A	IHQT3FF30630	89550.00	IHQT3FF50630	126705.00
70 kA		400A	IHQT3HF30400	118565.00	IHQT3HF50400	148420.00

Note: Phase barriers are supplied along with MCCBs
Spreader terminals are available as an accessories, refer page no. 21
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 & QT630		
24 Vdc	ISSLQX0172	POR
48 Vdc	ISSLQX0173	
110 Vdc	ISSLQX0175	
110 V AC	ISSLQX0176	3650.00
230 V AC	ISSLQX0441 ▲	3300.00
230 V AC	ISSLQX0171	3650.00
415 V AC	ISSLQX0177	3650.00
Under Voltage Release - QT160, QT250 & QT630		
24 Vdc	ISSLQX0180	POR
48 Vdc	ISSLQX0181	
110 Vdc	ISSLQX0182	
110 V AC	ISSLQX0183	4600.00
230 V AC	ISSLQX0179 ▲	4600.00
415 V AC	ISSLQX0184	4600.00
Auxillary Contact - QT160, QT250 & QT630		
1 C/O	ISSLQX0149 ▲	1390.00
2 C/O	ISSLQX0242	2650.00
Trip Alarm Contact - QT160, QT250 & QT630		
1 C/O	ISSLQX0145	1390.00
Auxillary + Alarm Contact - QT160, QT250 & QT630		
1 C/O + 1 C/O	ISSLQX0164 ▲	2650.00
Spreder Terminals Kit		
Spreader Terminal Kit (3nos) QT160	ISSLQX0015 ▲	1250.00
Spreader Terminal Kit (4nos) QT160	ISSLQX0014 ▲	1615.00
Spreader Terminal Kit (3nos) QT250	ISSLQX0542	1405.00
Spreader Terminal Kit (4nos) QT250	ISSLQX0543	1855.00
Spreader Terminal Kit (3nos) QT630*	ISSLQX0319	4320.00
Spreader Terminal Kit (4nos) QT630*	ISSLQX0320	5760.00
Rotary Handle		
Direct Mounting QT160	ISSLQX0222	1965.00
Door Mounting QT160	ISSLQX0223 ▲	3035.00
Direct Mounting QT250	ISSLQX0325	2100.00
Door Mounting QT250	ISSLQX0326	3625.00
Door Mounting QT630	ISSLQX0413	6200.00
Pad Lock		
Fixed QT160	ISSLQX0209	290.00
Removable QT160	ISSLQX0211	200.00
Fixed QT250	ISSLQX0408	315.00
Removable QT250	ISSLQX0409	285.00
Terminal Shroud		
3 Pole QT160	ISSLQX0141	785.00
4 Pole QT160	ISSLQX0142	1080.00
3 Pole QT250	ISSLQX0167	1505.00
4 Pole QT250	ISSLQX0168	1880.00
3 Pole QT630	ISSLQU0448	1750.00
4 Pole QT630	ISSLQU0449	2250.00
MCCB Enclosure		
3 Pole QT160	ISSLQX0381	3265.00
4 Pole QT160	ISSLQX0385	3265.00
3 Pole QT250	ISSLQX0440	4170.00
4 Pole QT250	ISSLQX0446	4170.00
Din Mounting Plant		
QT160 A	ISSLQX0208	210.00

▲ Stockable Item
For details on technical parameters & non stockable items contact nearest sales office.
*For 630 A 2 numbers of spreader terminals kit to be ordered for each size (Load & Line).

A'TRON

Moulded Case Circuit Breaker

(Conforms to IS/IEC 60947-2)

Range : 16 A – 160 A

No. of Poles : 3 Pole & 4 Pole

Breaking Capacity Ics = Icu = 100% upto 25 kA

Ambient Temperature 40 ^{0}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

1 Compact Footprint

5 Class II Insulation

2 Current Limiting, outstanding single break

6 Quick Toggle, Trip free mechanism

3 Line-Load Reversibility

7 Positive Isolation

4 Reliable breaking performance, Ics=100% Icu

8 Easy and Field Installable accessories

A'TRON

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	8030.00	IHTT1IB50016	9985.00
		20 A	IHTT1IB30020	8030.00	IHTT1IB50020	9985.00
		25 A	IHTT1IB30025	8030.00	IHTT1IB50025	9985.00
		32 A	IHTT1IB30032	8030.00	IHTT1IB50032	9985.00
		40 A	IHTT1IB30040	8030.00	IHTT1IB50040	9985.00
		50 A	IHTT1IB30050	8030.00	IHTT1IB50050	9985.00
		63 A	IHTT1IB30063 ▲	7775.00	IHTT1IB50063 ▲	9810.00
		80 A	IHTT1IB30080	7775.00	IHTT1IB50080	9810.00
		100 A	IHTT1IB30100 ▲	7775.00	IHTT1IB50100 ▲	9810.00
		125 A	IHTT1IB30125 ▲	8035.00	IHTT1IB50125 ▲	10105.00
		160 A	IHTT1IB30160 ▲	9775.00	IHTT1IB50160 ▲	12215.00
25 kA	25 kA	16 A	IHTT1DB30016	11325.00	IHTT1DB50016	13395.00
		20 A	IHTT1DB30020	11325.00	IHTT1DB50020	13395.00
		25 A	IHTT1DB30025	11325.00	IHTT1DB50025	13395.00
		32 A	IHTT1DB30032	11325.00	IHTT1DB50032	13395.00
		40 A	IHTT1DB30040	11325.00	IHTT1DB50040	13395.00
		50 A	IHTT1DB30050	11325.00	IHTT1DB50050	13395.00
		63 A	IHTT1DB30063 ▲	11460.00	IHTT1DB50063 ▲	13175.00
		80 A	IHTT1DB30080	11460.00	IHTT1DB50080	13175.00
		100 A	IHTT1DB30100 ▲	11460.00	IHTT1DB50100 ▲	13175.00
		125 A	IHTT1DB30125 ▲	14230.00	IHTT1DB50125 ▲	17640.00
		160 A	IHTT1DB30160	17115.00	IHTT1DB50160	20775.00

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	8030.00	IHTT1IB40016	9480.00
		20 A	IHTT1IB30020	8030.00	IHTT1IB40020	9480.00
		25 A	IHTT1IB30025	8030.00	IHTT1IB40025	9480.00
		32 A	IHTT1IB30032	8030.00	IHTT1IB40032	9480.00
		40 A	IHTT1IB30040	8030.00	IHTT1IB40040	9480.00
		50 A	IHTT1IB30050	8030.00	IHTT1IB40050	9480.00
		63 A	IHTT1IB30063 ▲	7775.00	IHTT1IB40063 ▲	9175.00
		80 A	IHTT1IB30080	7775.00	IHTT1IB40080	9175.00
		100 A	IHTT1IB30100 ▲	7775.00	IHTT1IB40100 ▲	9175.00
		125 A	IHTT1IB30125 ▲	8035.00	IHTT1IB40125 ▲	9470.00
		160 A	IHTT1IB30160 ▲	9775.00	IHTT1IB40160 ▲	11325.00
25 kA	18 kA	16 A	IHTTHDB30016	8845.00	IHTTHDB40016	11135.00
		20 A	IHTTHDB30020	8845.00	IHTTHDB40020	11135.00
		25 A	IHTTHDB30025	8845.00	IHTTHDB40025	11135.00
		32 A	IHTTHDB30032	8845.00	IHTTHDB40032	11135.00
		40 A	IHTTHDB30040	8845.00	IHTTHDB40040	11135.00
		50 A	IHTTHDB30050	8845.00	IHTTHDB40050	11135.00
		63 A	IHTTHDB30063 ▲	8620.00	IHTTHDB40063 ▲	10850.00
		80 A	IHTTHDB30080	8620.00	IHTTHDB40080	10850.00
		100 A	IHTTHDB30100 ▲	8620.00	IHTTHDB40100 ▲	10850.00
		125 A	IHTTHDB30125 ▲	9330.00	IHTTHDB40125 ▲	12255.00
		160 A	IHTTHDB30160 ▲	14200.00	IHTTHDB40160 ▲	16415.00

▲ 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. 24
It is recommended to use spreader terminals for enhancing termination capacity

For material availability please connect with nearest sales office.
##FP with Switched Netural (unprotected neutral)
$-Neutral pole protected

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

ATRON 160
Accessories

Description	Cat. No	Per Unit LP (₹)
Shunt Trip		
110 V AC	ISSLQX0176	3650.00
230 V AC	ISSLQX0171 ▲	
415 V AC	ISSLQX0177	
Under Voltage Release		
110 V AC	ISSLQX0183	4600.00
230 V AC	ISSLQX0179 ▲	
415 V AC	ISSLQX0184	
Auxillary Contact		
1 C/O	ISSLQX0149 ▲	1390.00
2 C/O	ISSLQX0242	2650.00
Trip Alarm Contact		
1 C/O	ISSLQX0145	1390.00
Auxillary + Alarm Contact		
1 C/O + 1 C/O	ISSLQX0164 ▲	2650.00
Spreder Terminals kit		
Spreader Terminal Kit (3NOS) AT1 - 16 A to 100 A	ISSLEX1158 ▲	430.00
Spreader Terminal Kit (3NOS) AT1 - 125 A to 160 A	ISSLTX000013	840.00
Spreader Terminal Kit (4NOS) AT1 - 16 A to 100 A	ISSLEX1159 ▲	635.00
Spreader Terminal Kit (4NOS) AT1 - 125 A to 160 A	ISSLTX000014 ▲	1140.00
Rotary Handle		
Direct Mounting	ISSLQX0222	1965.00
Door Mounting AT160	ISSLTU0211 ▲	2655.00
Pad Lock		
Fixed	ISSLQX0209	290.00
Removable	ISSLQX0211	200.00
MCCB Enclosure		
3 Pole	ISSLQX0381	2940.00
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
Spreader terminals are available as an accessories, refer page no. 24
It is recommended to use spreader terminals for enhancing termination capacity
For material availability please connect with nearest sales office.

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	3220.00
		80 A	IHLGAAA30080	3220.00
		100 A	IHLGAAA30100 ▲	3220.00
		125 A	IHLGAAA30125 ▲	3865.00

GS 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	3740.00	IHLGSF0025	4885.00
		32 A	IHLGST0032	3740.00	IHLGSF0032	4885.00
		40 A	IHLGST0040	3740.00	IHLGSF0040	4885.00
		50 A	IHLGST0050	3740.00	IHLGSF0050	4885.00
		63 A	IHLGST0063 ▲	3740.00	IHLGSF0063 ▲	4935.00
		80 A	IHLGS30080	3740.00	IHLGS40080	5260.00
		100 A	IHLGS30100 ▲	3740.00	IHLGS40100 ▲	5260.00
		125 A	IHLGS30125 ▲	4980.00	IHLGS40125 ▲	5760.00
		160 A	IHLGS30160 ▲	6675.00	IHLGS40160 ▲	8835.00

GS Frame 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	1590.00
		32 A	IHLGSS0032	1590.00
		40 A	IHLGSS0040	1590.00
		50 A	IHLGSS0050	1590.00
		63 A	IHLGSS0063	1590.00
		80 A	IHLGS10080	1590.00
		100 A	IHLGSAAS0100	1590.00
		125 A	IHLGSAA10125	1725.00
		160 A	IHLGS10160	1830.00

▲ 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
Spreader terminals are available as an accessories, refer page no. 28
##FP with Switched Netural

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

Loadline **Moulded Case Circuit Breakers**

(Conforms to IS/IEC:60947-2)

A Frame

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	13100.00	IHLASBC40160	17980.00
		200 A		IHLASBC30200 ▲	15510.00	IHLASBC40200 ▲	19640.00
25 kA	75%	80 A	(Suitable for DC application 10 kA at 250 V DC 2P in series)	IHLASDC30080	10570.00	IHLASDC40080	12800.00
		100 A		IHLASDC30100	10570.00	IHLASDC40100	12800.00
		125 A		IHLASDC30125	13255.00	IHLASDC40125	15675.00
		160 A		IHLANDC30160	16110.00	IHLANDC40160 ▲	19275.00
		200 A		IHLANDC30200 ▲	16335.00	IHLANDC40200 ▲	20095.00
		250 A		IHLANDC30250 ▲	17640.00	IHLANDC40250 ▲	22285.00
25 kA	100%	80 A		IHLANYC30080	10900.00	IHLANYC40080	13785.00
		100 A		IHLANYC30100	10900.00	IHLANYC40100 ▲	13785.00
		125 A		IHLANYC30125 ▲	13650.00	IHLANYC40125 ▲	16880.00
		160 A		IHLANYC30160	17725.00	IHLANYC40160 ▲	21210.00
		200 A		IHLANYC30200	17965.00	IHLANYC40200 ▲	22100.00
		250 A		IHLANYC30250	19395.00	IHLANYC40250 ▲	24520.00

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%	320 A	IHLLSEB30320 ▲	42235.00	IHLLSEB40320 ▲	51895.00
		400 A	IHLLSEB30400 ▲	42235.00	IHLLSEB40400 ▲	51895.00
		500 A	IHLLSEB30500	59800.00	IHLLSEB40500	74750.00
		630 A	IHLLSEB30630 ▲	59800.00	IHLLSEB40630 ▲	74750.00
50 kA	100%	320 A	IHLLSFB30320	45355.00	IHLLSFB40320	54880.00
		400 A	IHLLSFB30400 ▲	45355.00	IHLLSFB40400 ▲	54880.00
		630 A	IHLLSFB30630 ▲	64395.00	IHLLSFB40630 ▲	79055.00

▲ 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
Spreader terminals are available as an accessories, refer page no. 28
##FP with Switched Netural

L Frame

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%	400 A	IHLLSEC30400	46355.00	IHLLSEC40400 ▲	56610.00
		630 A	IHLLSEC30630	60345.00	IHLLSEC40630	76255.00
50 kA		400 A	IHLLSFC30400	48965.00	IHLLSFC40400	58510.00
		630 A	IHLLSFC30630	67450.00	IHLLSFC40630	80610.00

L Frame

Microprocessor MCCB

Adjustable Overload, Short-circuit, Ground fault (4 Pole) & Fixed Instantanous Netural Protection (4 Pole)

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%**	400 A	IHLLSEE30400	63135.00	IHLLSEE40400 ▲	76420.00
		630 A	IHLLSEE30630	70700.00	IHLLSEE40630	90300.00
50 kA		400 A	IHLLSFE30400	68785.00	IHLLSFE40400	86145.00
		630 A	IHLLSFE30630	73520.00	IHLLSFE40630	96425.00

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 ▲	85825.00	IHD4HLBF0800 ▲	110730.00

▲ 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

Spreader terminals are available as an accessories, refer page no. 28
##FP with Switched Netural

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

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	115.00
		3P	ISSLGX0154 ▲	300.00
		4P	ISSLGX0155 ▲	470.00
	125 A	1P	ISSLGX0156	150.00
		3P	ISSLGX0157	460.00
		4P	ISSLGX0158	615.00
	160 A	1P	ISSLGX0173	180.00
		3P	ISSLGX0160	620.00
		4P	ISSLGX0161	845.00
A Frame	80 A~100 A	3P	ISSLAX0121 ▲	455.00
		4P	ISSLAX0122 ▲	610.00
	125 A~200 A	3P	ISSLAX0124 ▲	920.00
		4P	ISSLAX0125 ▲	1210.00
	250 A	3P	ISSLAX0127 ▲	1325.00
		4P	ISSLAX0128 ▲	1780.00
L Frame	200 A~400 A	3P	ISSLLX0065 ▲	2725.00
		4P	ISSLLX0066 ▲	3565.00
	500 A~630 A	3P	ISSLLX0067 ▲	7130.00
		4P	ISSLLX0068 ▲	9545.00
HIM 800	800 A	3P	ISSLEX1166 ▲	8280.00
		4P	ISSLEX1167 ▲	11270.00

Enclosures for MCCBs ▲

HSN Code: **85371000**

Description	Item Code	Per Unit LP (₹)
GA & 'G' Frame TP	IHEGTP ▲	3240.00
GA & 'G' Frame FP	IHEGFP ▲	
'A' Frame TP	IHEATP ▲	3945.00
'A' Frame FP	IHEAFP ▲	
'L' Frame TP	IHELTP	14970.00
'L' Frame FP	IHELFP	
HIM 800 TP	ISSBOU1199	16225.00
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

Spreader terminals are available as an accessories, refer page no. 28
##FP with Switched Netural

Earth Fault Relay for MCCBs

HSN Code: **85389000**

MCCBs Current Range (A)	Item Code**	Per Unit LP (₹)
25 A- 100 A	IHEF1100	10855.00
125 A- 200 A	IHEF2200 ▲	12315.00
250 A- 400 A	IHEF3400 ▲	14380.00
500 A- 800 A	IHEF4800	17935.00

- 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 (₹)
Shunt Trip						
100 V AC - 110 V AC	ISSLEU2453 ▲	1740.00	IHLAS110	2520.00	IHLLS110	3535.00
220 V AC - 240 V AC	ISSLEU2454 ▲		IHLAS240 ▲		IHLLS240 ▲	
380 V AC - 415 V AC	ISSLEU2446		IHLAS415		IHLLS415 ▲	
Under Voltage Release						
110 V AC - 120 V AC	-	2630.00	IHLAU110	3885.00	IHLLU110	4805.00
220 V AC - 240V AC	ISSLEU2447 ▲		IHLAU240 ▲		IHLLU240 ▲	
380 V AC - 440 V AC	ISSLEU2448 ▲		IHLAU440		IHLLU415 ▲	
Auxiliary Contact (250V AC/250Vdc) (450V AC/250Vdc)						
1-Changeover	ISSLEU2450 ▲	1170.00	IHLAA1CO ▲	1295.00	IHLLA1CO ▲	1490.00
2-Changeover	ISSLEU2449	1875.00	IHLAA2CO ▲	2140.00	IHLLA2CO ▲	2575.00
Rotary Handle						
Direct Mounting	IHLGD000 ▲	1775.00	IHLAD000 ▲	2335.00		
Door Mounting	IHLGRN30 ▲	2215.00	IHLARN30 ▲	3045.00	IHLLRN30 ▲	4510.00
Padl Lock Device						
Padlock	IHLLDPG125	180.00	IHLLDPA250	270.00	IHLLP000	615.00
Trip Alarm Contact	ISSLEU2451	1170.00	IHLLALA1CO	1295.00	IHLLB000 ▲	1490.00
Auxilary Contact + Alram Switch						
					ISSLEU1772	2575.00

▲ 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
Spreader terminals are available as an accessories, refer page no. 28
##FP with Switched Netural

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

Accessories for HIM Series Moulded Case Circuit Breakers

HSN Code: **85389000**

Description	HIM 800 Frame	Per Unit LP (₹)
Shunt Trip		
24 Vdc	ISSLEU0889	3630.00
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	
Under Voltage Release		
24 Vdc	ISSLEU0912	5150.00
100 V AC - 120 V AC	ISSLEU0914	
200 V AC - 230 V AC	ISSLEU0895	
380 V AC - 415 V AC	ISSLEU0896	
Auxiliary Contact (250 V AC / 250 Vdc) (450 V AC / 250 Vdc)		
1-Changeover	ISSLEU0793	1535.00
Alarm Switch (Left side only)	ISSLEU0796	

SHT

AUX

UVT

HSN Code: **85389000**

Description	HIM 800 Frame	Per Unit LP (₹)
Rotary Handle		
Direct Mounting	ISSLEU0916	4515.00
Door Mounting	ISSLEU0824 ▲	5895.00
Mechanical Interlock		
3 Pole	ISSLEU0838	8110.00
4 Pole (R-S-T-N)	ISSLEU0842	9615.00
Motor Operator		
24 Vdc	ISSLEU0903	69980.00
110 V AC / Vdc	ISSLEU0923	
240 V AC / Vdc	ISSLEU0904	
Pad Lock Device	ISSLEU0845	2110.00
Auxiliary Handle	ISSLEU0846	2110.00
Phase Barrier		
3 Pole (Set of 2)	ISSLEU0885	985.00
4 Pole (Set of 3)	ISSLEU0886	1470.00

Extended Rotary Handle

Motor Operator

▲ 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
Spreader terminals are available as an accessories, refer page no. 28
##FP with Switched Netural

Hi Pan

Verified design

Enclosure: Type Tested Assembly
QT2 Incoming & QT1 Outgoing

Cat Code	Description	Per Unit LP (₹)
IHAQ02500400	HI PAN - 250A QT2 I/C QT1 O/G TP 4W DD	78035.00
IHAQ02500800	HI PAN - 250A QT2 I/C QT1 O/G TP 8W DD	95480.00
IHAQ02501600	HI PAN - 250A QT2 I/C QT1 O/G TP 16W DD	136300.00
IHAQF2500400	HI PAN - 250A QT2 I/C QT1 O/G FP 4W DD	82815.00
IHAQF2500800	HI PAN - 250A QT2 I/C QT1 O/G FP 8W DD	103810.00
IHAQF2501200	HI PAN - 250A QT2 I/C QT1 O/G FP 12W DD	148195.00

QT2 Incoming & ATron Outgoing

Cat Code	Description	Per Unit LP (₹)
IHAQ02500400	HI PAN - 250A QT2 I/C AT1 O/G TP 4W DD	78035.00
IHAQ02500800	HI PAN - 250A QT2 I/C AT1 O/G TP 8W DD	95480.00
IHAQ02501600	HI PAN - 250A QT2 I/C AT1 O/G TP 16W DD	136300.00
IHAQF2500400	HI PAN - 250A QT2 I/C AT1 O/G FP 4W DD	82815.00
IHAQF2500800	HI PAN - 250A QT2 I/C AT1 O/G FP 8W DD	103810.00
IHAQF2501200	HI PAN - 250A QT2 I/C AT1 O/G FP 12W DD	148195.00

POWERSAFE Enclosures
(Conforms to IEC:61439)

250 A Panel Board, OG TP / FP A'Tron MCCB's

HSN Code: 85371000

Incommer / Outgoing	Outgoing* (No. of Ways)	(Double Door) Item Code	Per Unit LP (₹)
250 A "A" Frame MCCB Incommer / Outgoing 3 Pole Atron	4	IHAT02500400	78035.00
	8	IHAT02500800	95480.00
	16	IHAT02501600	136300.00
250 A "A" Frame MCCB Incommer / Outgoing 4 Pole Atron	4	IHATF2500400	82815.00
	8	IHATF2500800	103810.00
	12	IHATF2501200	148195.00

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

'G' Frame Panel Boards, O/G TP / FP MCCBs G-Frame (10 kA)

HSN Code: 85371000

Incommer / Outgoing	Outgoing* (No. of Ways)	Double Door Item Code	Per Unit LP (₹)
250 A "AA" Frame MCCB Incommer / Outgoing 3 Pole G-Frame	4	IHVG02500400	78035.00
	8	IHVG02500800	95480.00
	16	IHVG02501600	136300.00
400 A "LS" Frame MCCB Incommer / Outgoing 3 Pole G-Frame	4	IHLG04000400	86660.00
	8	IHLG04000800	97280.00
	16	IHLG04001600	146230.00
250 A "AA" Frame MCCB Incommer / Outgoing 4 Pole G-Frame	4	IHVGF2500400	82815.00
	8	IHVGF2500800	103810.00
	12	IHVGF2501200	148195.00
400 A "LS" Frame MCCB Incommer / Outgoing 4 Pole G-Frame	4	IHLGF4000400	91950.00
	8	IHLGF4000800	105790.00
	12	IHLGF4001200	157495.00

* 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.

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

HSN Code: 85371000

Incommer / Outgoing	Outgoing* (No. of Ways)	Double Door Item Code	Per Unit LP (₹)
400 A "LS" Frame MCCB Incommer / Outgoing 3 Pole A-Frame	8	IHLA04000800	128965.00
	12	IHLA04001200	164665.00
630 A "LS" Frame MCCB Incommer / Outgoing 3 Pole A-Frame	8	IHLA06300800	141740.00
	12	IHLA06301200	183245.00

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

HSN Code: 85389000

Description	Double Door Item Code	Per Unit LP (₹)
Prewire Meter Module - Analog	ISSBOU0706	28030.00
Meter Module - Digital	ISSBOU0707	35020.00

Bare Meter Module / MCB Module / Add on Module

HSN Code: 85389000

Description	Double Door Item Code	Per Unit LP (₹)
Meter Module - Analog Provision for Ammeter, Voltmeter - Analog with selector switch	ISSBOU0703	12005.00
MCB Module	ISSBOU0704	
Add on Module	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.
** The above prices are for bare module enclosures only.

* 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.

Add on Incoming Changeover Switch Enclosure only**

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
250 A Incoming change Over switch-F1	ISSBOU0708	19390.00
400 A & 630 A Incoming change Over switch - F2	ISSBOU0709	28495.00

Add on Incoming Changeover Switch with Enclosure

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
250 A Incoming change Over switch-F1	ISSBOU0712	77205.00
400 A Incoming change Over switch - F2	ISSBOU0713	102315.00
630 A Incoming change Over switch - F3	ISSBOU0714	114410.00

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	204900.00
125 A ATS FITT. ENCL P.SAFE	ISSBOU1129	214505.00
250 A ATS FITT. ENCL P.SAFE	ISSBOU1126	298555.00

Terminal for ATron Outgoing

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
Terminal for ATron Outgoing (Per Pole)	ISCCUPLTX012	215.00

Terminal for G & A Frame Outgoing

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
Terminal for G Frame Outgoing (Per Pole)	ISCCUPBOP151	175.00
Terminal for A Frame Outgoing (Per Pole)	ISCCUPBOP167	450.00

* The outgoings number of ways is the number of "A" Frame TP MCCBs that can be mounted.
** Maximum ratings are indicated for the incoming MCCBs however lower ratings in the same frame can be ordered.
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*	Double Door Item Code	Per Unit LP (₹)
Cable Alley I/C 250 A,O/G 3P GF 2/4Way	ISSBOU0690	24080.00
Cable Alley I/C 250 A,O/G 3P GF 6WAY & 4P 2/4Way	ISSBOU0691	31785.00
Cable Alley I/C 250 A,O/G 3P GF 8WAY & 4P 6Way	ISSBOU0692	33335.00
Cable Alley I/C 250 A,O/G 4P GF 8Way	ISSBOU0694	35640.00
Cable Alley I/C 250 A,O/G 3P GF 16Way & 4P 12Way	ISSBOU0696	42385.00
Cable Alley I/C 400 A,O/G 3P GF 2/4Way	ISSBOU0697	27540.00
Cable Alley I/C 400 A,O/G 3P GF 6WAY & 4P 2/4Way	ISSBOU0698	27540.00
Cable Alley I/C 400 A/630 A, O/G 3P GF 8Way, 4P 6Way & A/F 6Way	ISSBOU0699	37475.00
Cable Alley I/C 400 A,O/G 3P GF 12Way	ISSBOU0700	42385.00
Cable Alley I/C 400 A/630 A, O/G 4P GF 8Way & TP A/F 8Way	ISSBOU0701	44315.00
Cable Alley I/C 400 A/630, O/G 4P GF 12Way, TP GF 16Way & TP A/F 12Way	ISSBOU0702	46235.00

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

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 ▲	16065.00
100 A	4 WAY	IHBC010004 ▲	19265.00
200 A	4 WAY	IHBC020004 ▲	24105.00
250 A	4 WAY	IHBC025004 ▲	37645.00
315 A	4 WAY	IHBC031504 ▲	41690.00
400 A	4 WAY	IHBC040004 ▲	45040.00

Busbar made of ETP Grade Aluminium

Current Rating (A)	No. of	Item Code	Per Unit LP (₹)
63 A	4 WAY	IHBA006304	13690.00
100 A	4 WAY	IHBA010004	15105.00
200 A	4 WAY	IHBA020004	15930.00
250 A	4 WAY	IHBA025004	25075.00
315 A	4 WAY	IHBA031504	27730.00
400 A	4 WAY	IHBA040004	28910.00

▲ Stockable Item

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

INSTAShift

Manual Changeover Switch

HSN Code: 85365090

Open Enclosure			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS00 ▲	63 A	IHCCFO0063	8825.00
	100 A	IHCCFO0100	11825.00
	125* A	IHCPFO0125	15105.00
IS02 ▲	125 A	IHCCFO0125	17670.00
	160 A	IHCCFO0160	19435.00
	200 A	IHCCFO0200	23310.00
	250* A	IHCPFO0250	25885.00
IS04 ▲	250 A	IHCCFO0250	34065.00
	315 A	IHCCFO0315	35980.00
	400* A	IHCPFO0400	38550.00
IS06	400 A	IHCCFO0400 ▲	50630.00
	630 A	IHCCFO0630 ▲	61770.00
	800* A	IHCPFO0800	71030.00

SS Enclosure Version			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS00 ▲	63 A	IHCCFE0063	13400.00
	100 A	IHCCFE0100	16800.00
	125* A	IHCPFE0125	19945.00
IS02 ▲	125 A	IHCCFE0125	24595.00
	160 A	IHCCFE0160	27565.00
	200 A	IHCCFE0200	30615.00
	250* A	IHCPFE0250	34100.00
IS04 ▲	250 A	IHCCFE0250	44130.00
	315 A	IHCCFE0315	46050.00
	400* A	IHCPFE0400	49655.00
IS06	400 A	IHCCFE0400 ▲	69060.00
	630 A	IHCCFE0630 ▲	78835.00
	800* A	IHCPFE0800	88100.00

*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	4325.00
ISSCNX0217	Castell Lock Frame IS02 / IS04 / IS06	4325.00
ISCELQOX0073	Auxiliary Switch Assembly 1NO 1NC Frame IS00	635.00
ISCELQOX0074	Auxiliary Switch Assembly 2NO 2NC Frame IS00	1060.00
ISCELQOX0075	Auxiliary Switch Assembly 1NO 1NC Frame IS02, IS04 & IS06	835.00
ISCELQOX0076	Auxiliary Switch Assembly 2NO 2NC Frame IS02, IS04 & IS06	1385.00
ISSCNX0235	Direct Handle IS00	855.00
ISSCNX0221	Direct Handle IS02-IS04-IS06	2485.00
ISCCUPCNP179	Shorting Link IS00 Frame	970.00

INSTAShift

Motorised Changeover Switch

HSN Code: 85371000

Open Enclosure			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHLFNAO125	78920.00
	160 A	IHLFNAO160	80380.00
	200 A	IHLFNAO200	84770.00
	250* A	IHLFNAO25D	87400.00
IS04	250 A	IHLFNAO250	114810.00
	315 A	IHLFNAO315	116965.00
	400* A	IHLFNAO40D	121015.00
IS06	400 A	IHLFNAO400	145870.00
	630 A	IHLFNAO630	156850.00
	800* A	IHLFNAO80D	167240.00

SS Enclosure Version			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHLFNAE125	92530.00
	160 A	IHLFNAE160	94000.00
	200 A	IHLFNAE200	98400.00
	250* A	IHLFNAE25D	101035.00
IS04	250 A	IHLFNAE250	130355.00
	315 A	IHLFNAE315	132510.00
	400* A	IHLFNAE40D	136550.00
IS06	400 A	IHLFNAE400	170255.00
	630 A	IHLFNAE630	181235.00
	800* A	IHLFNAE80D	159685.00

*Compact Design (For AC 22 A application)

▲ Stockable Item

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

INSTAShift

RTSE Accessories

MTSE to RTSE Conversion Kit

RTSE Enclosure (with IP 43)*

HSN Code: 85389000

	Code	Item Description	Per Unit LP (₹)
MTSE to RTSE Conversion Kit	ISSCNX0214	MOTOR MODULE FRAME IS02	59050.00
	ISSCNX0213	MOTOR MODULE FRAME IS04	77290.00
	ISSCNX0212	MOTOR MODULE FRAME IS06	88580.00
RTSE Enclosure (with IP 32)	ISSCNX0204	Enclosure Frame IS02	POR
	ISSCNX0205	Enclosure Frame IS04	
	ISSCNX0206	Enclosure Frame IS06	
RTSE Enclosure (with IP 43)	ISSCNX0256	Enclosure Frame IS02	POR
	ISSCNX0257	Enclosure Frame IS04	
	ISSCNX0258	Enclosure Frame IS06	

*Available on request

INSTAShift

Automatic Changeover Switch

With B Type Controller

HSN Code: 85371000

Open Enclosure			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHSFNAO125	92070.00
	160 A	IHSFNAO160	105865.00
	200 A	IHSFNAO200	112710.00
IS04	250 A	IHSFNAO250	130040.00
	315 A	IHSFNAO315	134675.00
IS06	400 A	IHSFNAO400	162980.00
	630 A	IHSFNAO630	188715.00

SS Enclosure Version			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHSFEBE125	107720.00
	160 A	IHSFEBE160	123860.00
	200 A	IHSFEBE200	131870.00
IS04	250 A	IHSFEBE250	152150.00
	315 A	IHSFEBE315	157575.00
IS06	400 A	IHSFEBE400	190680.00
	630 A	IHSFEBE630	220795.00

INSTAShift

Automatic Changeover Switch

With M Type Controller

HSN Code: 85371000

Open Enclosure			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHPFNAO125	116980.00
	160 A	IHPFNAO160	130780.00
	200 A	IHPFNAO200	137620.00
IS04	250 A	IHPFNAO250	154955.00
	315 A	IHPFNAO315	159590.00
IS06	400 A	IHPFNAO400	187895.00
	630 A	IHPFNAO630	213630.00

SS Enclosure Version			
Frame	Rating (A)	Catalogue Code	Per Unit LP (₹)
IS02	125 A	IHPFEBE125	136860.00
	160 A	IHPFEBE160	153010.00
	200 A	IHPFEBE200	161015.00
IS04	250 A	IHPFEBE250	181300.00
	315 A	IHPFEBE315	186720.00
IS06	400 A	IHPFEBE400	219835.00
	630 A	IHPFEBE630	249945.00

INSTAShift

ATSE Accessories

HSN Code: 85389000

Code	Item Description	Per Unit LP (₹)
ISSCNX0350	IS02 Conversion Kit MTSE to ATSE B-TYPE	POR
ISSCNX0351	IS04 Conversion Kit MTSE to ATSE B-TYPE	
ISSCNX0352	IS06 Conversion Kit MTSE to ATSE B-TYPE	
ISSCNX0356	IS02 Conversion Kit RTSE to ATSE B-TYPE	
ISSCNX0357	IS04 Conversion Kit RTSE to ATSE B-TYPE	
ISSCNX0358	IS06 Conversion Kit RTSE to ATSE B-TYPE	
ISSCNX0353	IS02 Conversion Kit MTSE to ATSE M-TYPE	
ISSCNX0354	IS04 Conversion Kit MTSE to ATSE M-TYPE	
ISSCNX0355	IS06 Conversion Kit MTSE to ATSE M-TYPE	
ISSCNX0359	IS02 Conversion Kit RTSE to ATSE M-TYPE	
ISSCNX0360	IS04 Conversion Kit RTSE to ATSE M-TYPE	
ISSCNX0361	IS06 Conversion Kit RTSE to ATSE M-TYPE	
ISSCNX0199	M Type HMI	POR

Enclosure for ATSE (with IP 32)

HSN Code: 85389000

Code	Item Description	Per Unit LP (₹)
ISSCNX0267	ATSE Enclosure Frame IS02	POR
ISSCNX0268	ATSE Enclosure Frame IS04	
ISSCNX0269	ATSE Enclosure Frame IS06	

Enclosure for ATSE (with IP 43)

HSN Code: 85389000

Code	Item Description	Per Unit LP (₹)
ISSCNX0270	ATSE Enclosure Frame IS02	POR
ISSCNX0271	ATSE Enclosure Frame IS04	
ISSCNX0272	ATSE Enclosure Frame IS06	

Front Fascia IP Kit

HSN Code: 85389000

Code	Item Description	Per Unit LP (₹)
ISSCNX0233	RTSE / ATSE Front Fascia IP Kit	POR

Door Extender Kit

HSN Code: 85389000

Code	Item Description	Per Unit LP (₹)
ISSCNX0232	ATSE Door Extender Kit	POR

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	42270.00	IHRFBAE063	45680.00
100 A	IHRFBAO100	45880.00	IHRFBAE100	49265.00
125 A	IHRFBAO125	51965.00	IHRFBAE125	55350.00

* In 63 A

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

Euroload

(ON-Load) Changeover Switch (4 Pole) I-O-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 (₹)
3	800 A	IHCNFO0800	93355.00	IHCNFE0800	120745.00
4	1000 A	IHCNFO1000	162050.00	IHCNFE1000	224300.00
4	1250 A	IHCNFO1250	215150.00	IHCNFE1250	300280.00
4	1600 A	IHCNFO1600	256230.00	IHCNFE1600	403240.00
5	2000 A	IHCNFO2000	411955.00	IHCNFE2000	551360.00
5	2500 A	IHCNFO2500	546375.00	IHCNFE2500	703915.00
5	3150 A	IHCNFO3150	748030.00	IHCNFE3150	953625.00

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	16570.00
00	100 A	IHCBFO0100 ▲	19545.00
0	125 A	IHCBFO0125	24905.00
0	160 A	IHCBFO0160	29660.00
0	200 A	IHCBFO0200	31900.00
1	250 A	IHCBFO0250	47045.00
1	320 A	IHCBFO0320	49705.00
2	400 A	IHCBFO0400	71845.00
2	630 A	IHCBFO0630	85345.00
3	800 A	IHCBFO0800	127755.00
3	1000 A	IHCBFO1000	227930.00
3	1600 A	IHCBFO1600	360405.00

Accessories

HSN Code: 85389000

Aux. Contact	Item Code	Per Unit LP (₹)
1 NO. 1 NC.	IHCNFAC1CO	635.00
2 NO. 2 NC.	IHCNFAC2CO	855.00

Euroload

Switch Disconnector

(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	3775.00	IHCSTE0080	5410.00
0	100 A	IHCSTO0100	3775.00	IHCSTE0100	5410.00
0	125 A	IHCSTO0125	5025.00	IHCSTE0125	6525.00
0	160 A	IHCSTO0160	5975.00	IHCSTE0160	8250.00
0	200 A	IHCSTO0200	6800.00	IHCSTE0200	8420.00
1	250 A	IHCSTO0250	8570.00	IHCSTE0250	10915.00
1	320 A	IHCSTO0320	9410.00	IHCSTE0320	11975.00
1	400 A	IHCSTO0400	13560.00	IHCSTE0400	16330.00

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	2060.00	IHCSFE0040	3420.00
00	63 A	IHCSFO0063	2060.00	IHCSFE0063	3420.00
00	100 A	IHCSFO0100	4915.00	IHCSFE0100	6010.00
0	125 A	IHCSFO0125	5240.00	IHCSFE0125	6935.00
0	160 A	IHCSFO0160	6275.00	IHCSFE0160	7660.00
0	200 A	IHCSFO0200	7575.00	IHCSFE0200	9145.00
1	250 A	IHCSFO0250	9575.00	IHCSFE0250	12425.00
1	320 A	IHCSFO0320	10510.00	IHCSFE0320	13195.00
2	400 A	IHCSFO0400	14575.00	IHCSFE0400	18210.00
2	630 A	IHCSFO0630	16845.00	IHCSFE0630	20760.00
3	800 A	IHCSFO0800	31390.00	IHCSFE0800	37025.00
4	1000 A	IHCSFO1000	62250.00	IHCSFE1000	67275.00
4	1250 A	IHCSFO1250	75725.00	IHCSFE1250	80930.00
4	1600 A	IHCSFO1600	98145.00	IHCSFE1600	108825.00
5	2000 A	IHCSFO2000	200315.00	IHCSFE2000	234305.00
5	2500 A	IHCSFO2500	221845.00	IHCSFE2500	259490.00
5	3150 A	IHCSFO3150	243375.00	IHCSFE3150	284670.00

▲ Stockable Item

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

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

Kompact *plus*

Switch Disconnector Fuse

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

Switch Disconnector 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 ▲	4455.00	IHKDTW4032 ▲	7170.00	IHHTIA0032
63 A				IHKDTF4063 ▲	6125.00	IHKDTW4063 ▲	8870.00	IHHTSS0063
100 A				IHKDTF4100 ▲	12400.00	IHKDTW4100 ▲	14975.00	IHHTSD0100
125 A				IHKDTF4125 ▲	15715.00	IHKDTW4125 ▲	18400.00	IHHTSD0125
32 A		Bolted Type	Without Fuse	IHKDTO4032	3875.00	IHKDTE4032	6595.00	IHHTIA0032
63 A				IHKDTO4063	5420.00	IHKDTE4063	8165.00	IHHTSS0063
100 A				IHKDTO4100	10940.00	IHKDTE4100	13525.00	IHHTSD0100
125 A				IHKDTO4125	14260.00	IHKDTE4125	16950.00	IHHTSD0125
32 A	TPN	DIN Type	With 3 Fuses	IHKFTF4032	5930.00	IHKFTW4032	7930.00	IHHCD00032
63 A				IHKFTF4063	7540.00	IHKFTW4063 ▲	9760.00	IHHCD00063
100 A				IHKFTF4100	12895.00	IHKFTW4100 ▲	15385.00	IHHCD00100
125 A				IHKFTF4125	16330.00	IHKFTW4125	18830.00	IHHCD00125
32 A		DIN Type	Without Fuse	IHKFTO4032	3915.00	IHKFTE4032	5915.00	IHHCD00032
63 A				IHKFTO4063	5450.00	IHKFTE4063	7670.00	IHHCD00063
100 A				IHKFTO4100	10605.00	IHKFTE4100	13100.00	IHHCD00100
125 A				IHKFTO4125	14005.00	IHKFTE4125	16520.00	IHHCD00125

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

Kompact *plus*

Switch Disconnector Fuse Unit

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

Switch Disconnector 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 ▲	17870.00	IHFSTW4160 ▲	23070.00	IHHTSF0160
200 A				IHFSTF4200 ▲	23245.00	IHFSTW4200 ▲	28325.00	IHHTSF0200
250 A				IHFSTF4250 ▲	27375.00	IHFSTW4250 ▲	32275.00	IHHTSF0250
320 A				IHFSTF4320	33700.00	IHFSTW4320 ▲	39495.00	IHHTSK0315
400 A				IHFSTF4400 ▲	42545.00	IHFSTW4400 ▲	48045.00	IHHTSMF400
630 A				IHFSTF4630	71100.00	IHFSTW4630	76695.00	IHHTLM0630
800 A				IHFSTF4800	84010.00	IHFSTW4800	89525.00	IHHTLM0800
160 A		Bolted Type	Without Fuse	IHFSTO4160	15610.00	IHFSTE4160	20810.00	IHHTSF0160
200 A				IHFSTO4200	20955.00	IHFSTE4200	26040.00	IHHTSF0200
250 A				IHFSTO4250	24900.00	IHFSTE4250	29810.00	IHHTSF0250
320 A				IHFSTO4320	30490.00	IHFSTE4320	36290.00	IHHTSK0315
400 A				IHFSTO4400	36530.00	IHFSTE4400	42015.00	IHHTSMF400
630 A				IHFSTO4630	58885.00	IHFSTE4630	64460.00	IHHTLM0630
800 A				IHFSTO4800	70240.00	IHFSTE4800	75755.00	IHHTLM0800
160 A		DIN Type	With 3 Fuses	IHFKTF4160	18470.00	IHFKTW4160	22950.00	IHHCD01160
200 A				IHFKTF4200	22545.00	IHFKTW4200 ▲	28050.00	IHHCD01200
250 A				IHFKTF4250 ▲	26440.00	IHFKTW4250 ▲	31635.00	IHHCD01250
320 A				IHFKTF4320	33095.00	IHFKTW4320	38165.00	IHHCD02315
400 A				IHFKTF4400 ▲	39360.00	IHFKTW4400 ▲	44405.00	IHHCD02400
630 A				IHFKTF4630	63205.00	IHFKTW4630 ▲	68610.00	IHHCD03630
800 A				IHFKTF4800	70490.00	IHFKTW4800	78510.00	IHHCD03800
160 A		DIN Type	Without Fuse	IHFKTO4160	15080.00	IHFKTE4160	19555.00	IHHCD01160
200 A				IHFKTO4200	19175.00	IHFKTE4200	24660.00	IHHCD01200
250 A				IHFKTO4250	22620.00	IHFKTE4250	27825.00	IHHCD01250
320 A				IHFKTO4320	28145.00	IHFKTE4320	33200.00	IHHCD02315
400 A				IHFKTO4400	34035.00	IHFKTE4400	39065.00	IHHCD02400
630 A				IHFKTO4630	54805.00	IHFKTE4630	60225.00	IHHCD03630
800 A				IHFKTO4800	60020.00	IHFKTE4800	66880.00	IHHCD03800

▲ Stockable Item

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

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

Kompact *plus*

Switch Disconnector Fuse

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

Accessories

HSN Code: 85389000

Cat Code	Description	Per Unit LP (₹)
ISSCBX0001	1 NO-NC SWITCH FOR SDF (32A-125A)	895.00
ISSCBX0002	1 NO-NC SWITCH FOR SDF (160A-800A)	1070.00
ISSCBX0003	2 NO-NC SWITCH FOR SDF (32A-125A)	1615.00
ISSCBX0004	2 NO-NC SWITCH FOR SDF 160A-800A)	1785.00

▲ Stockable Item

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

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	1220.00	3 N
400 A	IHIC02O400 ▲	Open Type Fuse Base	CD-2	1960.00	3 N
630 A	IHIC03O630 ▲	Open Type Fuse Base	CD-3	2280.00	3 N
800 A	IHIC03O800	Open Type Fuse Base	CD-3	2280.00	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)

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
160 A	IHUC00O160 ▲	Open Type Fuse Base	CD-00	615.00	6 N

HiBreak

HBC Fuse Link

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

Bolted 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
HSN Code: 85361010						
F-1	Offset	NS	2 A	IHHNS00002	130.00	20 N
			4 A	IHHNS00004		
			6 A	IHHNS00006		
			10 A	IHHNS00010		
HSN Code: 85361020						
F-1	Offset	NS	16 A	IHHNS00016	130.00	20 N
			20 A	IHHNS00020	140.00	
			25 A	IHHNS00025		
			32 A	IHHNS00032		
A-2	Offset	TIA	32 A	IHHTIA0032 ▲	180.00	10 N
A-3	Offset	TSS	63 A	IHHTSS0063 ▲	220.00	10 N
A-4	Offset	TSD	100 A	IHHTSD0100	480.00	10 N
			125 A	IHHTSD0125		
B-2	Central	TSF	160 A	IHHTSF0160	705.00	10 N
			200 A	IHHTSF0200		
			250 A	IHHTSF0250	760.00	
B-3	Central	TSK	315 A	IHHTSK0315	1000.00	3 N
B - 4	Central	TSMF	400 A	IHHTSMF400	1875.00	3 N
C - 1	Central	TSMS	400 A	IHHTSMS400		3 N
C - 2	Central	TLM	630 A	IHHTLM0630	3810.00	1 N
C - 2	Central	TLM	800 A	IHHTLM0800	4245.00	1 N

DIN Type HRC Fuse - 80 kA, 415 V

IS Size	Rating (A)	Item Code	Per Unit LP (₹)	STD Packing No. of unit/s
HSN Code: 85361020				
000	63 A	IHHCD11063	490.00	3 N
	100 A	IHHCD11100	520.00	
HSN Code: 85361020				
00	16 A	IHHCD00016	530.00	3 N
	32 A	IHHCD00032		
	40 A	IHHCD00040	555.00	
	63 A	IHHCD00063 ▲		
	80 A	IHHCD00080	615.00	
	100 A	IHHCD00100 ▲		
	125 A	IHHCD00125	630.00	
	160 A	IHHCD00160 ▲	660.00	
01	100 A	IHHCD01100 ▲	895.00	3 N
	125 A	IHHCD01125		
	160 A	IHHCD01160 ▲	905.00	
	200 A	IHHCD01200 ▲		
	250 A	IHHCD01250 ▲	1015.00	
02	250 A	IHHCD02250	1315.00	1 N
	315 A	IHHCD02315 ▲		
	400 A	IHHCD02400 ▲	1410.00	
03	500 A	IHHCD03500	2170.00	1 N
	630 A	IHHCD03630	2220.00	
	800 A	IHHCD03800	2740.00	

▲ Stockable Item

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

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

Havells Global Series
Magnetic Contactors, Overload Relays & Manual Motor Starter
Designed for demanding applications & Tropical conditions

HGS - Trusted Global Range

Contactors, Overload Relays & Manual Motor Starter

Motor Control Solutions for higher Saftey, 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)

HGS - R Contactor
Ratings - 6 A to 100 A

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

Capacitor Duty Contactor
Ratings - 3 kVAr to 66 kVAr

Motor Protection
Circuit Breaker
Ratings - 0.1 A to 32 A

Motor Protection
Circuit Breaker
Ratings - 0.1 A to 63 A

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

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 ciritical application
- CE Marking & Compliance to IS/IEC 60947-4-1
- High Electrical and Mechanical Durability with Higher operating frequency (Operations / Hour)
- Low VA Burden coils with Class H Insulation
- Dust protection covers
- Terminal Barrier and Shrouds
- 2NO + 2NC inbuilt Aux. contact above 50 A
- DIN Channel Mounting upto 100 A (Frame 1 to 4)
- 60 degree no deration
- Ring termination for all ratings

Contactor (HGS)

Overload Relay (HGST)

	18 AF	40 AF	65 AF	100 AF
HGS Rated Current Rated Operational Voltage	9 A, 12 A, 18 A, 22 A 690 V	25 A, 32 A, 40 A 690 V	50 A, 65 A 690 V	75 A, 85 A, 100 A 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

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

- 60 degree no deration & too less remove

Magnetic Contactor
3 Pole Power Contactors

HSN Code: 85369090

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
- 60 degree no deration

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_e A	I_{th} A		NO	NC			
1	9 A ▲	25 A	3	1	0	HGS 9	IHPHA009110*	2050.00
	9 A ▲	25 A	3	0	1	HGS 9	IHPHA009101*	2050.00
	12 A ▲	25 A	3	1	0	HGS 12	IHPHA012110*	2390.00
	12 A ▲	25 A	3	0	1	HGS 12	IHPHA012101*	2390.00
	18 A ▲	40 A	3	1	0	HGS 18	IHPHA018110*	2755.00
	18 A ▲	40 A	3	0	1	HGS 18	IHPHA018101*	2755.00
	22 A ▲	40 A	3	1	0	HGS 22	IHPHA022110*	2975.00
	22 A	40 A	3	0	1	HGS 22	IHPHA022101*	2975.00
2	25 A ▲	45 A	3	1	0	HGS 25	IHPHA025210*	3710.00
	25 A ▲	45 A	3	0	1	HGS 25	IHPHA025201*	3710.00
	32 A ▲	55 A	3	1	0	HGS 32	IHPHA032210*	7055.00
	32 A ▲	55 A	3	0	1	HGS 32	IHPHA032201*	7055.00
	40 A ▲	60 A	3	1	0	HGS 40	IHPHA040210*	10505.00
	40 A ▲	60 A	3	0	1	HGS 40	IHPHA040201*	10505.00
3	50 A ▲	70 A	3	2	2	HGS 50	IHPHA050300*	14680.00
	65 A ▲	85 A	3	2	2	HGS 65	IHPHA065300*	18380.00
4	75 A ▲	110 A	3	2	2	HGS 75	IHPHA075400*	22000.00
	85 A ▲	125 A	3	2	2	HGS 85	IHPHA085400*	25930.00
	100 A ▲	135 A	3	2	2	HGS 100	IHPHA100400*	37380.00
5	115 A	160 A	3	2	2	HGS 115	IHPHA115500*	46075.00
	130 A	180 A	3	2	2	HGS 130	IHPHA130500*	47435.00
	150 A	210 A	3	2	2	HGS 150	IHPHA150500*	57810.00
6	185 A	275 A	3	2	2	HGS 185	IHPHA185600*	66865.00
	225 A	315 A	3	2	2	HGS 225	IHPHA225600*	72670.00
	265 A	350 A	3	2	2	HGS 265	IHPHA265600*	81800.00
7	300 A	400 A	3	2	2	HGS 300	IHPHA300700*	100455.00
	400 A	500 A	3	2	2	HGS 400	IHPHA400700*	125610.00
	500 A	550 A	3	2	2	HGS 500	IHPHA500700*	180935.00
8	630 A	750 A	3	2	2	HGS 630	IHPHA630800*	282270.00
	800 A	900 A	3	2	2	HGS 800	IHPHA800800*	455425.00

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 Floaring 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	N	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	180 V - 280 V		260 V - 440 V ▲
4	110 V	180 V - 280 V		260 V - 440 V ▲
	AC/DC Universal Coil with in-built ECM* Module 240 V N		AC Coil T	
5, 6, 7	100 V AC -240 V AC & 110 V DC -220 V DC		415 V AC	
8	200 V AC -240 V AC & 200 V DC -220 V DC		415 V AC	

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

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*	2485.00	2NO + 2NC	IHPHC016122*	2745.00
	20 A	4NO	IHPHC020100*	2550.00	2NO + 2NC	IHPHC020122*	2800.00
	25 A	4NO	IHPHC025100*	2755.00	2NO + 2NC	IHPHC025122*	3120.00
	32 A ▲	4NO	IHPHC032100*	2825.00	2NO + 2NC	IHPHC032122*	3230.00
	40 A	4NO	IHPHC040100*	4250.00	2NO + 2NC	IHPHC040122*	4590.00
2	50 A	4NO	IHPHC050200*	5550.00	2NO + 2NC	IHPHC050222*	6220.00
	60 A ▲	4NO	IHPHC060200*	10575.00	2NO + 2NC	IHPHC060222*	11860.00

*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*	1990.00
		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 at415 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*	1545.00
	12 A	25 A	2	0	0	IHPHF012100*	1790.00
	18 A ▲	40 A	2	0	0	IHPHF018100*	2075.00
	22 A	40 A	2	0	0	IHPHF022100*	2240.00
2	25 A	45 A	2	0	0	IHPHF025200*	2425.00
	32 A	55 A	2	0	0	IHPHF032200*	5110.00
	40 A	60 A	2	0	0	IHPHF040200*	7610.00
3	50 A	70 A	2	0	0	IHPHF050300*	9550.00
	65 A ▲	85 A	2	0	0	IHPHF065300*	13830.00
4	75 A	110 A	2	0	0	IHPHF075400*	15845.00
	85 A	125 A	2	0	0	IHPHF085400*	19230.00
	100 A	135 A	2	0	0	IHPHF100400*	24720.00

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

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

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_e A	I_{th} A		NO	NC			
1	9 A ▲	25 A	3	1	0	HGSR 9	IHPRA009110*	1820.00
	9 A	25 A	3	0	1	HGSR 9	IHPRA009101*	1820.00
	12 A ▲	25 A	3	1	0	HGSR 12	IHPRA012110*	2120.00
	12 A	25 A	3	0	1	HGSR 12	IHPRA012101*	2120.00
	18 A ▲	40 A	3	1	0	HGSR 18	IHPRA018110*	2465.00
	18 A	40 A	3	0	1	HGSR 18	IHPRA018101*	2465.00
	22 A ▲	40 A	3	1	0	HGSR 22	IHPRA022110*	2635.00
	22 A	40 A	3	0	1	HGSR 22	IHPRA022101*	2635.00
2	25 A ▲	45 A	3	1	0	HGSR 25	IHPRA025210*	3480.00
	25 A	45 A	3	0	1	HGSR 25	IHPRA025201*	3480.00
	32 A ▲	55 A	3	1	0	HGSR 32	IHPRA032210*	6460.00
	32 A	55 A	3	0	1	HGSR 32	IHPRA032201*	6460.00
	40 A ▲	60 A	3	1	0	HGSR 40	IHPRA040210*	9625.00
	40 A	60 A	3	0	1	HGSR 40	IHPRA040201*	9625.00
3	50 A ▲	70 A	3	2	2	HGSR 50	IHPRA050322*	13215.00
	65 A ▲	85 A	3	2	2	HGSR 65	IHPRA065322*	16555.00
4	75 A ▲	110 A	3	2	2	HGSR 75	IHPRA075422*	19805.00
	85 A ▲	125 A	3	2	2	HGSR 85	IHPRA085422*	23345.00
	100 A ▲	125 A	3	2	2	HGSR 100	IHPRA100422*	33635.00

Coil Voltage Selection Table

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

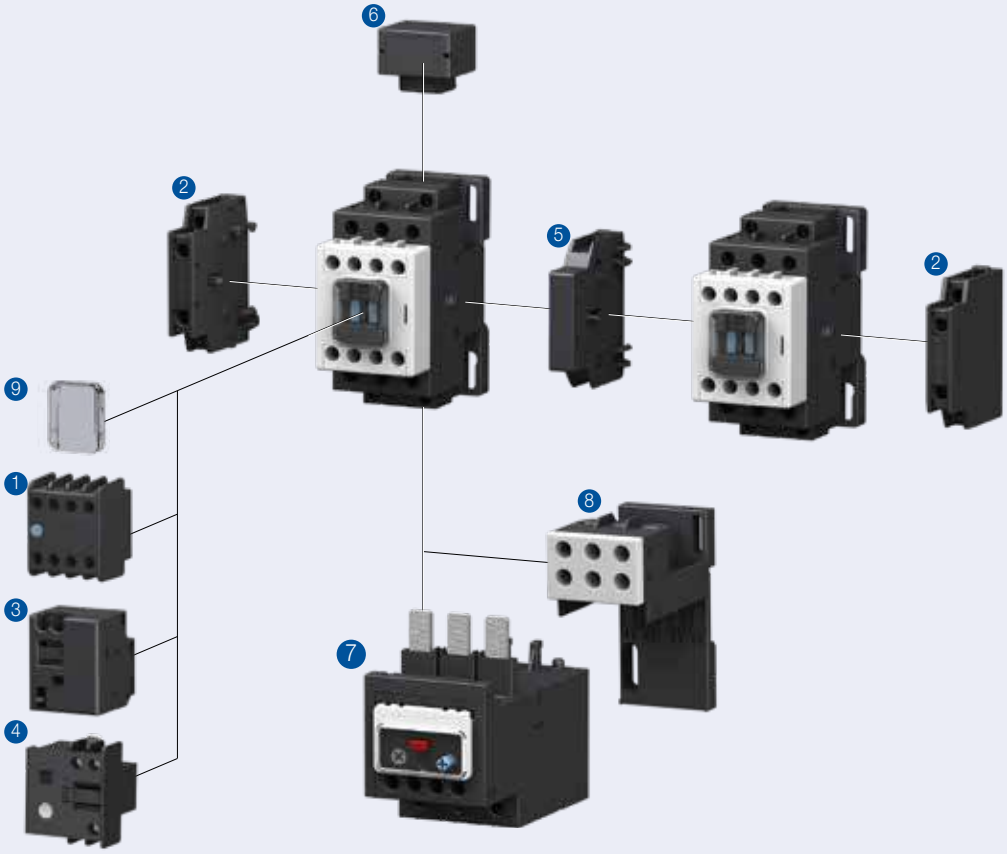
Note:
1. For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table on page no. 54
2. Standard Spare coil are available on request on page no 54

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		150 V - 300 V ▲	260 V - 440 V ▲
2	110 V		150 V - 300 V ▲	260 V - 440 V ▲
3	110 V	180 V - 280 V	-	260 V - 440 V ▲
4	110 V	180 V - 280 V	-	260 V - 440 V ▲

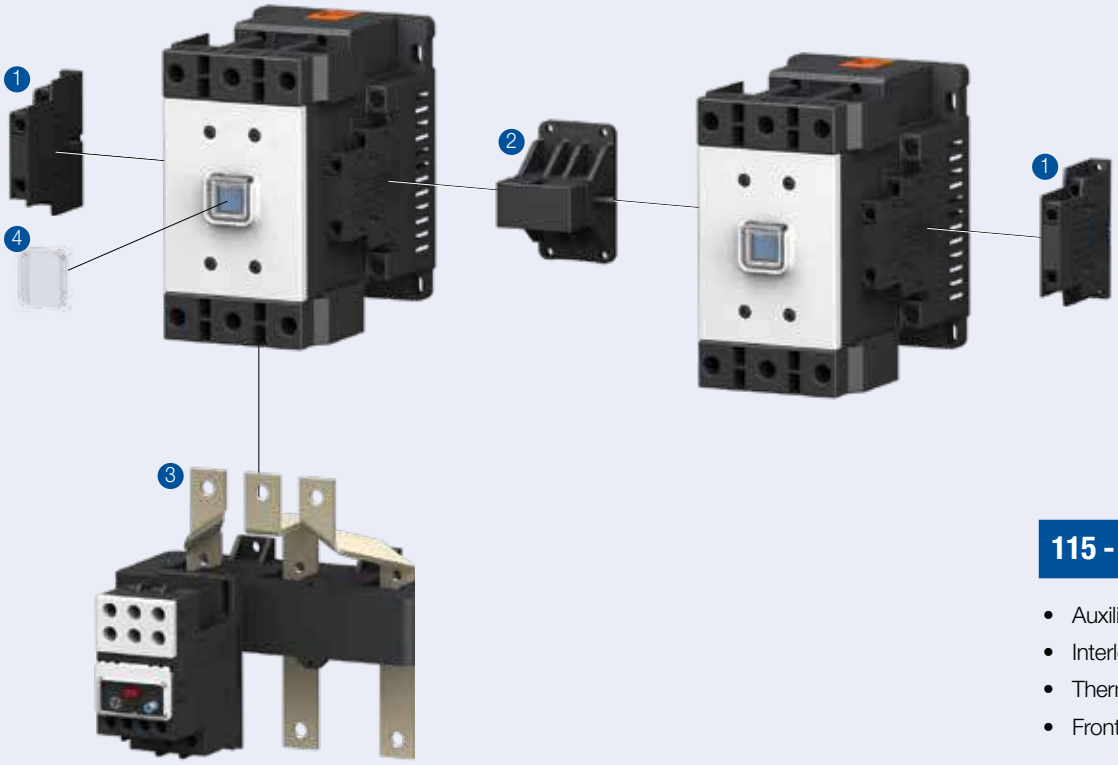
▲ Stockable Item
For details on technical parameters & non stockable items contact nearest sales office.

Accessories



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

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

Accessories - HGS Series Contactors

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	1240.00
		HGS50-HGS 100 (For all contactors in Frame-3 and Frame-4)	ISSPCU1970	
		HGS115- HGS 800	ISSPCU1971	1470.00
Aux Contact Block (Top Mounting)	2NC	HGS9-HGS100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1961	765.00
	1NO + 1NC ▲		ISSPCU1962	
	2NO		ISSPCU1963	
	4NC		ISSPCU1964	1285.00
	1NO + 3NC		ISSPCU1965	
	2NO + 2NC ▲		ISSPCU1966	
	3NO + 1NC		ISSPCU1967	
	4NO		ISSPCU1968	
Mechanical Interlock Unit		HGS 9-HGS 40 ▲ (For all contactos in Frame-1 and Frame-2)	ISSPCU1972	1670.00
		HGS50-HGS 100 (For all contactors in Frame-3 and Frame-4)	ISSPCU1973	3920.00
		HGS115- HGS 265	ISSPCU1974	6950.00
		HGS 300- HGS 800	ISSPCU1975	7865.00
Mechanical Latching Block (Top Mounting)	220 V AC	HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1976	3935.00
Electronic Timer (Top Mounting)		HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	ISSPCU1977	5315.00
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	3360.00

- One contactor of Frame-1 and another contactor of Frame-2 can also be interlcoked 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	1110.00
		240 V	ISSPCU1989	
		415 V	ISSPCU2050	
		150 V-300 V	ISSPCU2215	
		260 V-440 V	ISSPCU2134	
"For all Frame-2 Contactors (HGS 25-HGS 40)"	AC	110 V	ISSPCU1995	1110.00
		240 V	ISSPCU1997	
		415 V	ISSPCU2053	
		150 V-300 V	ISSPCU2216	
		260 V-440 V	ISSPCU2135	
"For all Frame-3 Contactors (HGS 50-HGS 65)"	AC	110 V	ISSPCU2003	3590.00
		240 V	ISSPCU2005	
		415 V	ISSPCU2007	
		260 V-440 V	ISSPCU2136	
"For all Frame-4 Contactors (HGS 75-HGS 100)"	AC	110 V	ISSPCU2011	4145.00
		240 V	ISSPCU2013	
		415 V	ISSPCU2015	
		260 V-440 V	ISSPCU2137	
"For Frame-5 Contactors (HGS 115-HGS 150)"		100 Vac-240 Vac	ISSPCU1979	11185.00
		110 Vdc -220 Vdc		
		380 Vac-450 Vac	ISSPCU2479	
"For Frame-6 Contactors (HGS 185-HGS 265)"		100 Vac-240 Vac	ISSPCU1980	4030.00
		110 Vdc -220 Vdc		
		380 Vac-450 Vac	ISSPCU2312	
"For Frame-7 Contactors (HGS 300-HGS 500)"		100 Vac-240 Vac	ISSPCU1981	20590.00
		110 Vdc -220 Vdc		
		380 Vac-450 Vac	ISSPCU2103	
"For Frame-8 Contactors (HGS 630-HGS 800)"		110 Vac-127 Vac	ISSPCU2480	42190.00
		100 Vdc -110 Vdc		
		200 Vac-240 Vac	ISSPCU1982	
		200 Vdc -220 Vdc		
		380 Vac-450 Vac	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	HGST18	IHHR13CA	3455.00
	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	
	8 A - 12 A ▲			IHHR13CR	3515.00
	12 A - 18 A ▲			IHHR13CT	
2	7 A - 10.0 A	HGS 25 HGS 32 HGS 40	HGST 40	IHHR23CQ	3865.00
	8 A - 12.0 A			IHHR23CR	
	12 A - 18 A ▲			IHHR23CT	
	15 A - 22 A ▲			IHHR23CU	
	17 A - 25 A ▲			IHHR23CV	4310.00
	22 A - 32 A ▲			IHHR23CW	5460.00
	28 A - 40 A			IHHR23CX	5660.00
3	7 A - 10.0 A	HGS 50 HGS 65	HGST 65	IHHR33CQ	6755.00
	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	8005.00
	34 A - 50 A ▲			IHHR33CY	
	45 A - 65 A			IHHR33C1	9530.00

▲ Stockable Item

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

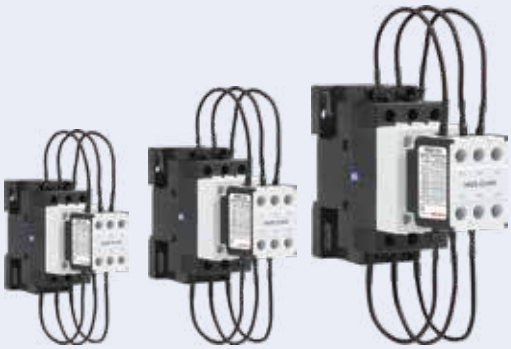
Relay Fr. size	Relay Range (A)	Suitable for Contactor Frame size	Type	Item Code	Per Unit LP (₹)
4	17 A - 25 A	HGS 75 HGS 85 HGS 100	HGST 100	IHHR43CV	7845.00
	22 A - 32 A			IHHR43CW	
	28 A - 40 A			IHHR43CX	
	34 A - 50 A			IHHR43CY	
	45 A - 65 A			IHHR43C1	9930.00
	52 A - 75 A			IHHR43C2	
	59 A - 85 A			IHHR43C3	
	70 A - 100 A			IHHR43C4	11065.00
5	48 A - 80 A	HGS 115 HGS 130 HGS 150	HGST 150	IHHR53C5	16555.00
	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	17785.00
	69 A - 115 A			IHHR63C6	
	78 A - 130 A			IHHR63C7	
	90 A - 150 A			IHHR63C8	
	111 A - 185 A			IHHR63C9	19620.00
	135 A - 225 A			IHHR63C11	
	159 A - 265 A			IHHR63C12	21595.00
7	90 A - 150 A	HGS 300 HGS 400 HGS 500	HGST 500	IHHR73C8	21605.00
	111 A - 185 A			IHHR73C9	
	135 A - 225 A			IHHR73C11	
	159 A - 265 A			IHHR73C12	
	180 A - 300 A			IHHR73C13	23670.00
	240 A - 400 A			IHHR73C14	
	300 A - 500 A			IHHR73C15	27580.00
8	378 A - 630 A	HGS 630 HGS 800	HGST 800	IHHR83C16	59140.00
	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	640.00
For all Frame-2 Contactors (HGS 25 to HGS 40)	ISSPCU2682	850.00

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*	4230.00
	3 kVAr	0	1	IHPHE003101*	4230.00
	5 kVAr ▲	1	0	IHPHE005110*	4435.00
	5 kVAr	0	1	IHPHE005101*	4435.00
	10 kVAr ▲	1	0	IHPHE010110*	5370.00
	10 kVAr	0	1	IHPHE010101*	5370.00
	12.5 kVAr	1	0	IHPHE12X110*	6335.00
	12.5 kVAr	0	1	IHPHE12X101*	6205.00
	15 kVAr ▲	1	0	IHPHE015110*	7760.00
	15 kVAr	0	1	IHPHE015101*	7760.00
2	20 kVAr ▲	1	0	IHPHE020210*	8530.00
	20 kVAr	0	1	IHPHE020201*	8530.00
	25 kVAr ▲	1	0	IHPHE025210*	9715.00
	25 kVAr	0	1	IHPHE025201*	9715.00
	33.3 kVAr ▲	1	0	IHPHE33X210*	14090.00
	33.3 kVAr	0	1	IHPHE33X201*	14090.00
3	33.3 kVAr	1	1	IHPHE33X311*	16980.00
	40 kVAr	2	2	IHPHE040322*	26090.00
4	50 kVAr ▲	2	2	IHPHE050422*	27155.00
	66 kVAr ▲	2	2	IHPHE066422*	31845.00

*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

Manual Motor Starter

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	■ HGSTMR : 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 Braking Capacity			
					→ 32 A		→ 63 A	
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	
HGSTMR	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

Circuit Breaker

MPCB

Havells Make Motor

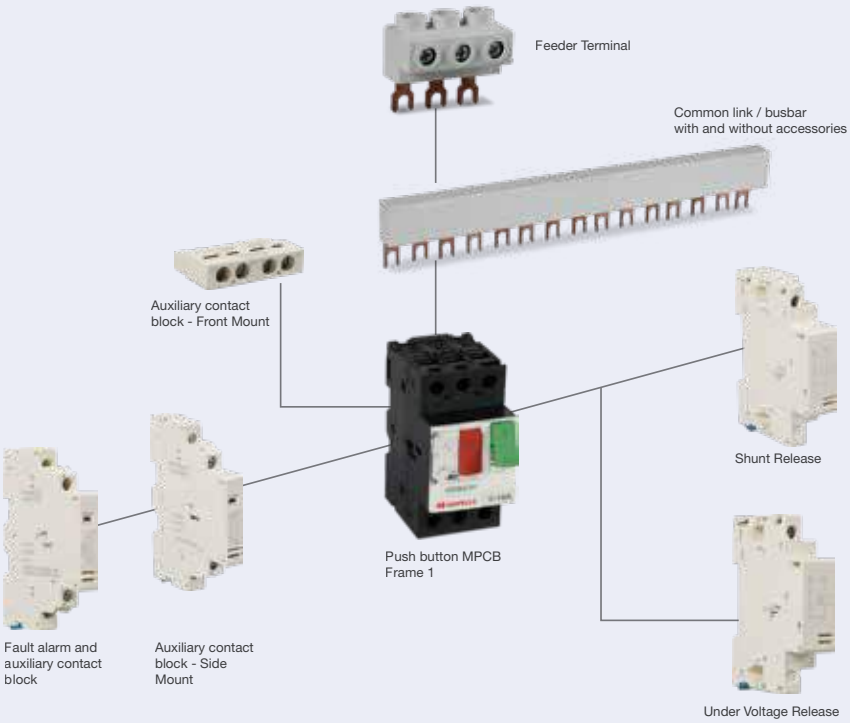
Havells Make Motor

- Compact
- High breaking capacity
- Short circuit protective coordination
- Reduction in wiring work
- High switching durability
- Padlocking feature available
- Stand alone motor protection
- Common accessories

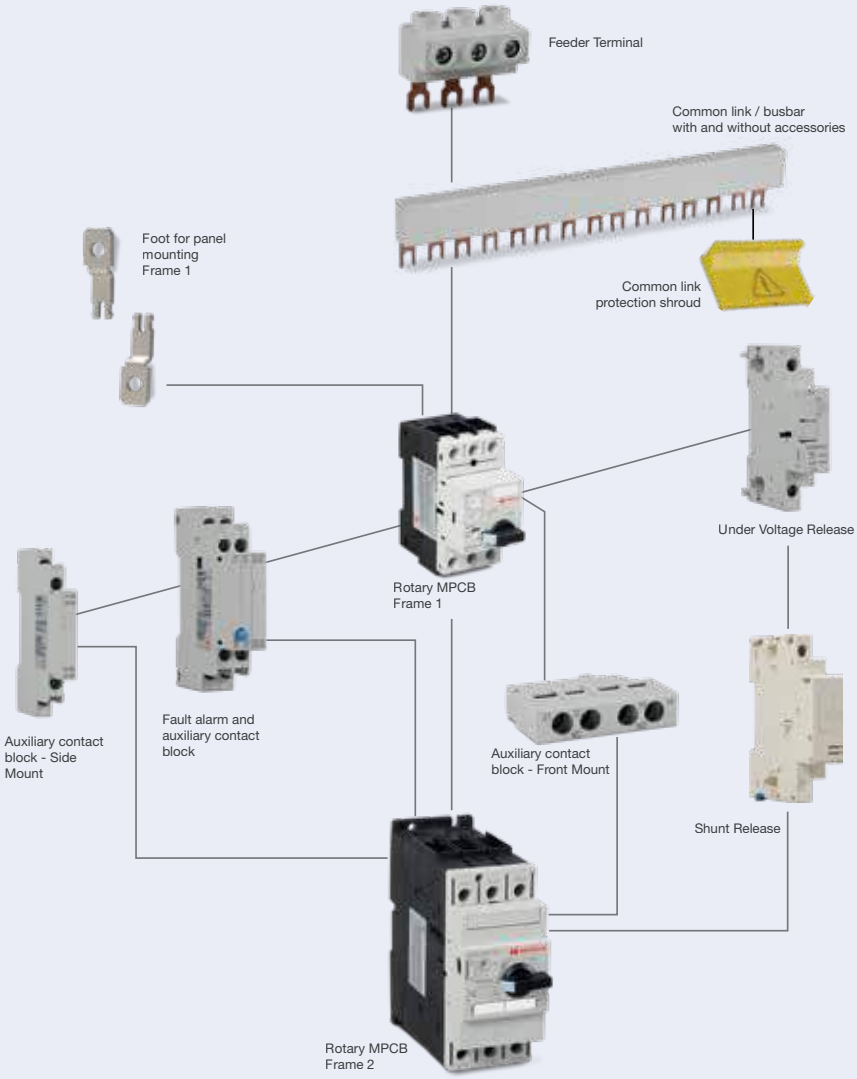
Circuit Breaker

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

Accessories Overview : Push Button Manual Motor Starter



Accessories Overview : Rotary MMS



Manual Motor Starter - HGSM Series

Manual Motor Starter 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 cyles
- 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	5030.00
			0.16 A - 0.25 A	IHHMPBB2B0	
			0.25 A - 0.4 A	IHHMPBC2D0	
			0.4 A - 0.63 A	IHHMPBD2E0	5705.00
			0.63 A - 1 A	IHHMPBE2F0	
			1 A - 1.6 A	IHHMPBF2G0	5745.00
			1.6 A - 2.5 A	IHHMPBG2R0	
			2.5 A - 4 A	IHHMPBH2I0	5950.00
			4 A - 6.3 A	IHHMPBJ2J0	
			6.3 A - 10 A	IHHMPBK2K0	6365.00
		15 kA	9 A - 14 A	IHHMPBL2L0	7170.00
			13 A - 18 A	IHHMPBN2M0	8155.00
			17 A - 23 A	IHHMPBQ2T0	8580.00
			20 A - 25 A	IHHMPBS2N0	
		10 kA	24 A - 32 A	IHHMPBT2P0	14965.00

Manual Motor Starter - HGSM Series Accessories

HSN Code: 85389000

Description	Configuraton	Suitable for	Item Code	Per Unit LP (₹)
Aux Contact Block (Side Mounting)	2NO	HGSM MPCB	ISSPCU2414	1350.00
	1NO + 1NC		ISSPCU2415	
Aux Contact Block (Top Mounting)	2NO		ISSPCU2412	
	1NO + 1NC		ISSPCU2413	
UV Release	110 V AC		ISSPCU2406	3750.00
	240 V AC		ISSPCU2407	
	415 V AC		ISSPCU2408	
Shunt Release	110 V AC		ISSPCU2409	
	240 V AC		ISSPCU2410	
	415 V AC		ISSPCU2411	
Fault Alarm	1NC + 1NO		ISSPCU2416	1860.00
	1NC + 1NC		ISSPCU2417	
	1NO + 1NO		ISSPCU2418	
Water proof Box IP55			ISSPCU2419	2220.00
Emergency Water proof Box IP55			ISSPCU2420	2400.00

▲ Stockable Item

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

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

MMS Manual Motor Starter - HGSTMR / HGSMR Series

MMS 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 Ui : 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

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	6440.00
		100 kA	0.16 A - 0.25 A	IHHMROB1BT	
		100 kA	0.25 A - 0.4 A	IHHMROC1DT	
		100 kA	0.4 A - 0.63 A	IHHMROD1ET	
		100 kA	0.63 A - 1 A	IHHMROE1FT	
		100 kA	1 A - 1.6 A	IHHMROF1GT	7345.00
		100 kA	1.6 A - 2.5 A	IHHMROG1RT	
		100 kA	2.5 A - 4 A	IHHMROH1IT	
		100 kA	4 A - 6.3 A	IHHMROJ1JT	
		50 kA	6.3 A - 10 A	IHHMROK1KT	8270.00
		50 kA	10 A - 16 A	IHHMROM1MT	
		50 kA	16 A - 20 A	IHHMROP1TT	10100.00
		50 kA	20 A - 25 A	IHHMROS1NT	
		50 kA	25 A - 32 A	IHHMROT1PT	18355.00
2	HGSTMR - A2	50 kA	11 A - 16 A	IHHMROM3MT	22030.00
		50 kA	14 A - 20 A	IHHMROP3TT	
		50 kA	18 A - 25 A	IHHMROS3NT	
		50 kA	22 A - 32 A	IHHMROT3PT	29370.00
		50 kA	28 A - 40 A	IHHMROU3QT	
		50 kA	36 A - 45 A	IHHMROV3ST	
		50 kA	40 A - 50 A	IHHMROW3ST	
		50 kA	52 A - 63 A	IHHMROX3XT	

HGSMR - Only Magnetic Series

HSN Code: 85362090

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	5790.000
		100 kA	0.25 A	IHHMROB1BM	
		100 kA	0.4 A	IHHMROC1DM	
		100 kA	0.63 A	IHHMROD1EM	
		100 kA	1.0 A	IHHMROE1FM	
		100 kA	1.6 A	IHHMROF1GM	6610.000
		100 kA	2.5 A	IHHMROG1RM	
		100 kA	4.0 A	IHHMROH1IM	
		100 kA	6.3 A	IHHMROJ1JM	
		50 kA	10 A	IHHMROK1KM	7450.000
		50 kA	16 A	IHHMROM1MM	
		50 kA	20 A	IHHMROP1TM	9095.000
		50 kA	25 A	IHHMROS1NM	
		50 kA	32 A	IHHMROT1PM	16525.000
2	HGSMR - A2	50 kA	16 A	IHHMROM3MM	19825.000
		50 kA	20 A	IHHMROP3TM	
		50 kA	25 A	IHHMROS3NM	
		50 kA	32 A	IHHMROT3PM	26430.000
		50 kA	40 A	IHHMROU3QM	
		50 kA	45 A	IHHMROV3SM	
		50 kA	50 A	IHHMROW3SM	
		50 kA	63 A	IHHMROX3XM	

▲ Stockable Item

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

Manual Motor Starter 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	2205.00
	2NC		ISSPDU0061	
	1NO + 1NC		ISSPDU0063	
Fault Alarm + Aux Contact Block (Side Mounting)	2 NO + 2NC		ISSPDU0073	
Aux Contact Block (Top Mounting)	1NO + 1NC		ISSPDU0060	1845.00
UV Release	24 V AC / 28 V AC		ISSPDU0069	4415.00
	180 V AC		ISSPDU0066	
	208 V AC		ISSPDU0067	
	240 V AC		ISSPDU0064	
Shunt Release	100 V AC - 127 V AC		ISSPDU0071	
	20 V AC - 24 V AC		ISSPDU0070	
	200 V AC - 240 V AC		ISSPDU0072	
Operating Handle	HGSRHBG-A1 OPERATING HANDLE-ROT		ISSPDU0089	2395.00
	HGSRHBG-A2 OPERATING HANDLE-ROT		ISSPDU0091	2945.00
	HGSRHRY-A1 OPERATING HANDLE-ROT		ISSPDU0090	2345.00
	HGSRHRY-A2 OPERATING HANDLE-ROT		ISSPDU0092	2945.00
Enclosure	HGSREBG-A1 IP65/L ENCLOSURE-ROT		ISSPDU0076	6800.00
	HGSREBG-A1 IP65/S ENCLOSURE-ROT		ISSPDU0074	5885.00
	HGSRERY-A1 IP65/L ENCLOSURE-ROT		ISSPDU0077	6800.00
	HGSRERY-A1 IP65/S ENCLOSURE-ROT		ISSPDU0075	5885.00
Feeder Terminal	HGSRFT-A1 3P FEEDER TERMINALS		ISSPDU0079	1475.00
Terminal Barrier	HGSRTB-A1 3P TERMINAL BARRIER		ISSPDU0080	190.00
Common Link	HGSRCL-A1 452MM COMMON LINK		ISSPDU0081	1300.00
	HGSRCL-A1 453MM COMMON LINK		ISSPDU0082	1475.00
	HGSRCL-A1 454MM COMMON LINK		ISSPDU0083	1745.00
	HGSRCL-A1 455MM COMMON LINK		ISSPDU0084	2025.00
	HGSRCL-A1 542MM COMMON LINK		ISSPDU0085	1570.00
	HGSRCL-A1 543MM COMMON LINK		ISSPDU0086	1745.00
	HGSRCL-A1 544MM COMMON LINK		ISSPDU0087	2025.00
	HGSRCL-A1 545MM COMMON LINK		ISSPDU0088	2295.00

▲ Stockable Item

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

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

Havells Global Series

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 - 3.7 kW to 110 kW
(5 HP to 150 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	IHHDOLFATE	5120.00
1 HP	0.75 kW	12 A	2 A - 3 A	IHHDOLGAWE	
2 HP ▲	1.5 kW	12 A	2.8 A - 4.2 A	IHHDOLHAWE	
3 HP ▲	2.2 kW	12 A	4.0 A - 6.0 A	IHHDOLJAWE	
5 HP ▲	3.7 kW	12 A	6 A - 9 A	IHHDOLLAWE	
7.5 HP ▲	5.5 kW	18 A	12 A - 18 A	IHHDOLMAWE	
10 HP ▲	7.5 kW	22 A	12 A - 18 A	IHHDOLNAWE	6145.00
15 HP ▲	11 kW	32 A	17 A - 25 A	IHHDOLPBWE	9910.00
20 HP	15 kW	32 A	22 A - 32 A	IHHDOLWBW	15950.00
25 HP	18.5 kW	40 A	28 A - 40 A	IHHDOLXBW	19335.00
30 HP	22 kW	50 A	34 A - 50 A	IHHDOLYCW	25035.00
40 HP	30 kW	65 A	45 A - 65 A	IHHDOL1CT	30915.00
50 HP	37 kW	85 A	59 A - 85 A	IHHDOL3DT	35850.00

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

Features:
- Range : 3.7 kW to 110 kW (5 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	21570.00
7.5 HP	5.5 kW	18 A	6.0 A - 9 A	IHHASDNAW	21570.00
10 HP ▲	7.5 kW	18 A	8.0 A - 12 A	IHHASDRAW	21570.00
12.5 HP	9.3 kW	18 A	8.0 A - 12 A	IHHASDTAW	21870.00
15 HP ▲	11 kW	22 A	12 A - 18.0 A	IHHASDTBW	21955.00
20 HP ▲	15 kW	25 A	15 A - 22 A	IHHASDUBW	24705.00
25 HP ▲	18.5 kW	32 A	17 A - 25 A	IHHASDVBW	27810.00
30 HP ▲	22 kW	32 A	22 A - 32 A	IHHASDWBW	30345.00
35 HP	26 kW	32 A	28 A - 40 A	IHHASDXBW	45040.00
40 HP	30 kW	50 A	28 A - 40 A	IHHASDXCW	62260.00
50 HP	37 kW	50 A	34 A - 50 A	IHHASDYCW	76895.00
60 HP	45 kW	50 A	45 A - 65 A	IHHASD1CWA	112830.00
75 HP	55 kW	65 A	45 A - 65 A	IHHASD1CWB	124115.00
90 HP	67.5 kW	85 A	59 A - 85 A	IHHASD3DW	145260.00
100 HP	75 kW	100 A	70 A - 100 A	IHHASD4DW	152415.00
125 HP	90 kW	115 A	78 A - 130 A	IHHASD7ET	209960.00
150 HP	110 kW	150 A	90 A - 150 A	IHHASD8ET	212980.00

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

Spares for Industrial Motor Starter - HGS Series

HSN Code: 85389000

Type	Item Code	Per Unit LP (₹)	
Start Push Button - Green	ICELL00002	340.00	
Stop Push Button - Red	ICELL00003		
Motor ON Indicating Light-Green	ICELKL00015	530.00	
Motor Trip Indicating Light-Yellow	ICELKL00013		
SPP	ISCELXL00063	5610.00	
Combined Voltmeter & Ammeter	ISCELMLX0007	2145.00	
Terminal Block 6 way	ICELPSMX001	810.00	
Terminal Block 3 way	ICELPSMX002	495.00	
VOLT.SEL SW. C/G	ICELQL00021	750.00	
Electronic Timer	ICELRPSL005	4840.00	
Mini Rocker Switch - SPP By Pass	ISCELEL00218	90.00	

▲ Stockable Item

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

Agricultural Motor Starter

urja

Agricultural Motor Starter

urja

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

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

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

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

1ϕ Submersible Pump Controller
(Urja Kavach)
Ratings - 0.37 kW to 2.2 kW
(0.5 HP to 3 HP)

ASD 3f Submersible Starters
STD & DLX (with & without
Short-circuit Protection)
Ratings - 22 kW to 37 kW
(30 HP to 50 HP)

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

HAVELLS

urja LITE

SWITCH TO PROGRESS AND PROSPERITY

THREE PHASE MOTOR CONTROL STARTER

QUICK FIT INSTALLATION TECHNOLOGY

Enclosure is dust, moisture and vermin proof with cord packing in the cover

Latch to prevent accidental starting

Range: 0.25 HP to 10 HP

Tested for millions of operations without failure Robust silver tipped contacts

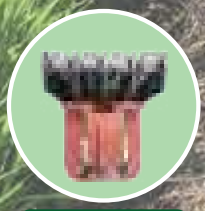
Reliable protection against overload

Quick Fit Technology

Front lock opening

Front lock opening

Front lock opening



Front lock opening

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 (₹)
0.5 HP	0.37 kW	12 A	1 A - 1.6 A	IHADOBB1LH	4570.00
1 HP	0.75 kW	12 A	1.5 A - 2.5 A	IHADOBC1LH	
2 HP ▲	1.5 kW	12 A	2.5 A - 4 A	IHADOBD1LH	
3 HP ▲	2.2 kW	12 A	4 A - 6.5 A	IHADOBE1LH	
5 HP ▲	3.7 kW	12 A	6 A - 10 A	IHADOBF1LH	
7.5 HP ▲	5.6 kW	16 A	9 A - 14 A	IHADOBG1LH	
10 HP ▲	7.5 kW	25 A	13 A - 21 A	IHADOBH1LH	5455.00

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 (₹)
1 HP ▲	0.75 kW	16 A	1.58 A - 2.5 A	IHADOAF1K	5075.00
2 HP ▲	1.5 kW	16 A	2.4 A - 3.8 A	IHADOAG1K	
3 HP ▲	2.2 kW	16 A	3.8 A - 6.0 A	IHADOAH1K	
5 HP ▲	3.7 kW	16 A	6.0 A - 9.3 A	IHADOAJ1K	
7.5 HP ▲	5.5 kW	20 A ▲	8.9 A - 13.5 A	IHADOAK1K	5585.00
		20 A	13.2 A - 20 A	IHADOAK1KA	
		20 A	17.4 A - 24 A	IHADOAK1KB	
10 HP ▲	7.5 kW	20 A	13.2 A - 20 A	IHADOAL1K	
15 HP ▲	11 kW	25 A	17.4 A - 24 A	IHADOAM1K	7075.00

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 (₹)
1 HP ▲	0.75 kW	6.24 A	20 A	6 A - 9.3 A	IHUDOLH1F1	4490.00
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	4605.00
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.

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	15430.00
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	16240.00
12.5 HP	9.3 kW	23.79 A	32 A	17.4 A - 24 A	IHSDOAM1KA	17050.00
15 HP	11 kW	28.55 A	32 A	22 A - 30 A	IHSDOAN1KA	18930.00

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	28025.00
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	30465.00
15 HP ▲	30.38 A	17.54 A	13.2 A - 20 A	20 A	IHSASAL1KB	31125.00
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	35650.00

▲ 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	56650.00
35 HP	26 kW	50.75 A	29.30 A	50 A	34 A - 50 A	IHHSSDYCWA	60040.00
40 HP	30 kW	58 A	33.49 A	65 A	34 A - 50 A	IHHSSDYCWB	66030.00
45 HP	33.6 kW	65.25 A	37.67 A	75 A	45 A - 65 A	IHHSSD1DW	82535.00
50 HP	37 kW	72.5 A	41.86 A	85 A	52 A - 75 A	IHHSSD2DW	90025.00

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	IHHDSDXCW	63580.00
35 HP	26 kW	50.75 A	29.30 A	50 A	34 A - 50 A	100 A	IHHDSDYCWA	67340.00
40 HP	30 kW	58 A	33.49 A	65 A	34 A - 50 A	100 A	IHHDSDYCWB	74000.00
45 HP	33.6 kW	65.25 A	37.67 A	75 A	45 A - 65 A	125 A	IHHDSD1DW	92355.00
50 HP	37 kW	72.5 A	41.86 A	85 A	52 A - 75 A	125 A	IHHDSD2DW	100680.00

urja kavach
Pump ki Suraksha ka Bharosa

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
- Inbuilt Dry run protection
- Applicable for 75 mm / 100 mm borewell Submersible Pump application
- Suitable for wide voltage operation
- High quality rubber gasket to prevent dusy entry
- Five-way connector for easy connection

HSN Code: 85369010

Item Code	kW	HP	Type	Descriptions	OLP	MCB	Con-tactor	Run Capacitor µF (MFD)	Start Capacitor µF (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 µF	120 µF- 150 µF	4350.00
IHRMFDM1F1	0.37 kW	0.5 HP	Oil Filled	0.5 HP SP STR OIL FILLED R6A	6 A	10 A	20 A	36 µF	-	4065.00
IHQMFDQ1F1	0.75 kW	1 HP ▲	water Filled	1 HP SP STR WATER FILLED R 10A	10 A	16 A	20 A	50 µF	120 µF - 150 µF	4360.00
IHRMFDQ1F1	0.75 kW	1 HP	Oil Filled	1 HP SP STR OIL FILLED R10A	10 A	16 A	20 A	36 µF	-	4300.00
IHSMFDQ1F1	0.75 kW	1 HP	Oil Filled	1 HP SP STR OIL FILLED WC R10A	10 A	16 A	0 A	36 µF	-	2435.00
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 µF	150 µF - 200 µF	4805.00
IHRMFDR1F1	1.1 kW	1.5 HP	Oil Filled	1.5 HP SP STR OIL FILLED R12A	16 A	20 A	25 A	50 µF	-	4560.00
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 µF	-	2575.00
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) µF	150 µF - 200 µF	4910.00
IHQMFDU1F1	1.5 kW	2 HP ▲	Water Filled	2 HP SP STR WATER FILLED R 16A	16 A	20 A	25 A	72 µF	150 µF - 200 µF	4920.00
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) µF	150 µF - 200 µF	5115.00
IHRMFDU1F1	1.5 kW	2 HP	Oil Filled	2 HP SP STR OIL FILLED R16A	16 A	20 A	25 A	72 µF	-	4710.00
IHQMFDV1F1	2.2 kW	3 HP	water Filled	3 HP SP STR WATER FILLED R 25A	25 A	32 A	32 A	(50+50) µF	200 µF - 250 µF	5680.00

▲ Stockable Item

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

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 Ie (A)	AC-1 Duty Rating at 415 V, 50 Hz Ith (A)	Power Poles	Type	Item Code	Item Description	Per Unit LP (₹)
20 A	25 A	4	UC1 20 F	IHPBC020100*	20 A 4P Contactor	4410.00
25 A	40 A		UC1 25 F	IHPBC025100*	25 A 4P Contactor	5450.00
32 A	45 A		UC1 32 F	IHPBC032100*	32 A 4P Contactor	6170.00
40 A	63 A		UC1 40 F	IHPBC040100*	40 A 4P Contactor	8080.00

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 Ie (A)	AC-1 Duty Rating at 415 V, 50 Hz Ith (A)	Power Poles	Type	Item Code	Item Description	Per Unit LP (₹)
20 A	32 A	2	UC1 20 D	IHPBF020100*	20 A 2P Contactor	2120.00
25 A	40 A		UC1 25 D	IHPBF025100*	25 A 2P Contactor	3015.00
40 A	63 A		UC1 40 D	IHPBF040100*	40 A 2P Contactor	4130.00

*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	3070.00
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	1500.00
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	1635.00
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	2640.00

▲ Stockable Item

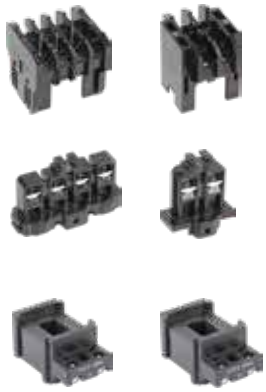
For details on technical parameters & non stockable items contact nearest sales office.

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

Spare Agri Contactor 2P / 4P

HSN Code: 85389000

Type	Rating	Item Code	Per Unit LP (₹)
Housing 2P		ISCPSMPCX016	480.00
Housing 4P		ISCPSMPCX014	770.00
Carrier Assembly 2P		ISSPEX0447	145.00
Carrier Assembly 4P		ISSPEX0446	200.00
2P Contactor Coil	140 V - 270 V	ISSPEP0008	1025.00
4P Contactor Coil	200 V - 400 V	ISSPEP0007	1175.00
	415 V (260 V - 440 V)	ISSPEP0009	
	240 V (140 V - 270 V)	ISSPEP0011	
Single Fixed Contact 2P / 4P	20 A	ISSPEX0428	165.00
	25 A	ISSPEX0429	220.00
	32 A	ISSPEX0430	235.00
	40 A	ISSPEX0439	290.00
Single Moving Contact 2P / 4P	20 A	ISSPEX0431	245.00
	25 A	ISSPEX0432	350.00
	32 A	ISSPEX0433	395.00
	40 A	ISSPEX0440	480.00
Contact Kit 2P Contactor	20 A	ISSPEX0441	1100.00
	25 A	ISSPEX0442	1540.00
	40 A	ISSPEX0444	2030.00
Contact Kit 4P Contactor	20 A	ISSPEX0434	1995.00
	25 A	ISSPEX0435	3095.00
	32 A	ISSPEX0436	3330.00
	40 A	ISSPEX0445	3320.00



▲ Stockable Item

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

urja Spares - Motor Starters & Controllers

DOL Starter - Spares

HSN Code: 85389000

Type	Item Code	Per Unit LP (₹)
NO Switch URJA	ISSPEX0437	235.00
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	350.00
	5+16 Element (1.5-2 HP) 1.12 kW - 1.50 kW	ISCELXLX0002	650.00
	5+25 Element (3-5 HP) 2.24 kW - 3.73 kW	ISCELXLX0003	745.00
Neon Light Indicator Red		ISCELKLX0006	145.00
Front Add-on Aux.Cont.Blck	2NO	ISSPEX0427	740.00
Combined AV Meter	30 A - 300 V	ISCELMLX0006	1950.00
	25 A - 500 V	ISCELMLX0007	1965.00
	50 A - 500 V	ISCELMLX0008	2145.00
Terminal Block	2 Way SPSS	ISCPTMPSX032	85.00
	5 Way	ISCELXPX0003	275.00

▲ Stockable Item

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

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

urja Spares - Motor Starters & Controllers

HSN Code: 85389000

Type	Item Code	Per Unit LP (₹)	
Start Push Button - Green	ICELL00002	310.00	
Stop Push Button - Red	ICELL00003		
Motor ON Indicating Light-Green	ICELKL00015	485.00	
Motor Trip Indicating Light-Yellow	ICELKL00013		
SPP	ISCELXL00063	5145.00	
Combined Voltmeter & Ammeter	ISCELMLX0007	1965.00	
Terminal Block 6 way	ICELPSMX001	745.00	
Terminal Block 3 way	ICELPSMX002	455.00	
VOLT.SEL SW. C/G	ICELQL00021	690.00	
Electronic Timer	ICELRPSL005	4435.00	
Front Block 1NO 1NC	ISPNAFM711	780.00	
Mini Rocker Switch - SPP By Pass	ISCELEL00218	80.00	

▲ Stockable Item

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

Lighting Feeder Panel

Lighting Feeder 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

				Digital 24 Hour Switch		Astronomical Switch	
Phase	Max. Load (kW)	Contactor Rating (A)	MCB Rating	Item Code	Per Unit	Item Code	Per Unit LP (₹)
3	6 kW	32 A TP	40 A TPN	IHXTS03060	53160.00	IHXTS0306A	54780.00
	12 kW	65 A TP	63 A TPN	IHXTS09120	82035.00	IHXTS0912A	83640.00
1	2 kW	20 A DP	16 A SPN	IHXSS01020	30445.00	IHXSS01020A	31885.00
	6 kW	32 A TP	40 A SPN	IHXSS01060	39865.00	IHXSS0106A	41485.00
	12 kW	65 A TP	63 A SPN	IHXSS03120	59895.00	IHXSS0312A	61515.00

HSN Code: 85389000

Description	Item Code	Per Unit LP (₹)
PROGRAMMABLE TIME SWITCH FOR SLP	ISCELMLX0012	5835.00
ASTRONOMICAL TIME SWITCH FOR SLP	ISCELMLX0013	6315.00

For customised Street Lighting Panels, contact to nearest branch

▲ Stockable Item

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

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

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	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	52500 / 45000	80000 / 65000
Max Ambient Temp (^{0}C)	55 ^{0}C	55 ^{0}C	55 ^{0}C
Operating life in hours	120000 hours	215000 hours / 150000 hours	300000 hours / 250000 hours
Notch Shield	Yes	Yes	Yes
Over pressure Disconnector	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
% Non Linear Load = (Non Linear Load / Transformer Rating) X 100
= (100/1000) X 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				
	0.90	0.91	0.92	0.94	0.95	0.96	0.97	0.98	0.99	1
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	0.58	0.12	0.16	0.19	0.23	0.28	0.34	0.48
0.91		0.00	0.03	0.89	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 (₹)
Rated Voltage 250 V AC, 1ø, 50 Hz					
1 kVAr	QHBSCS5001X0	HERCULES 250 V 50 Hz-1 kVAr 1 PH	1 N	16 N	563.00
2 kVAr	QHBSCS5002X0	HERCULES 250 V 50 Hz-2 kVAr 1 PH	1 N	16 N	780.00
3 kVAr	QHBSCS5003X0	HERCULES 250 V 50 Hz-3 kVAr 1 PH	1 N	16 N	1174.00
4 kVAr	QHBSCS5004X0	HERCULES 250 V 50 Hz-4 kVAr 1 PH	1 N	16 N	1548.00
5 kVAr	QHBSCS5005X0	HERCULES 250 V 50 Hz-5 kVAr 1 PH	1 N	8 N	1909.00

Torrent - Splendid Duty Cylindrical Capacitors

- Design in Cylindrical Aluminium cane.
- Output range 1 kVAr to 30 kVAr.
- Long life expectency 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 (₹)
Rated Voltage 440 V AC, 3ø, 50 Hz, Delta Connection					
1 kVAr ▲	QHUTCC5001X0	Torrent 440 V 50 Hz-1 kVAr 3 PH	1 N	16 N	432.00
2 kVAr ▲	QHUTCC5002X0	Torrent 440 V 50 Hz-2 kVAr 3 PH	1 N	16 N	657.00
3 kVAr ▲	QHUTCC5003X0	Torrent 440 V 50 Hz-3 kVAr 3 PH	1 N	16 N	1027.00
4 kVAr ▲	QHUTCC5004X0	Torrent 440 V 50 Hz-4 kVAr 3 PH	1 N	16 N	1136.00
5 kVAr ▲	QHUTCC5005X0	Torrent 440 V 50 Hz-5 kVAr 3 PH	1 N	16 N	1302.00
6 kVAr ▲	QHUTCC5006X0	Torrent 440 V 50 Hz-6 kVAr 3 PH	1 N	16 N	1559.00
7.5 kVAr ▲	QHUTCC5007X5	Torrent 440 V 50 Hz-7.5 kVAr 3PH	1 N	16 N	1955.00
10 kVAr ▲	QHUTCC5010X0	Torrent 440 V 50 Hz-10 kVAr 3 PH	1 N	8 N	2604.00
12.5 kVAr ▲	QHUTCC5012X5	Torrent 440 V 50 Hz-12.5 kVAr 3 PH	1 N	8 N	3252.00
15 kVAr ▲	QHUTCC5015X0	Torrent 440 V 50 Hz-15 kVAr 3 PH	1 N	4 N	3900.00
20 kVAr ▲	QHUTCC5020X0	Torrent 440 V 50 Hz-20 kVAr 3 PH	1 N	4 N	5202.00
25 kVAr ▲	QHUTCC5025X0	Torrent 440 V 50 Hz-25 kVAr 3 PH	1 N	4 N	6497.00
30 kVAr	QHUTCC5030X0	Torrent 440 V 50 Hz-30 kVAr 3 PH	1 N	4 N	7799.00

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

NEW

HSN Code: 85321000

Rating kVAr	Item Code	Description	Standard Pack No of unit/s	Master Pack No of unit/s	Per Unit LP (₹)
Rated Voltage 440 V AC, 3ø, 50 Hz, Delta Connection					
1 kVAr ▲	QHHTCC5001X0	PHANTOM HD 440 V 50 Hz 1 kVAr 3 PH	1 N	16 N	540.00
2 kVAr ▲	QHHTCC5002X0	PHANTOM HD 440 V 50 Hz 2 kVAr 3 PH	1 N	16 N	822.00
3 kVAr ▲	QHHTCC5003X0	PHANTOM HD 440 V 50 Hz 3 kVAr 3 PH	1 N	16 N	1136.00
4 kVAr ▲	QHHTCC5004X0	PHANTOM HD 440 V 50 Hz 4 kVAr 3 PH	1 N	16 N	1360.00
5 kVAr ▲	QHHTCC5005X0	PHANTOM HD 440 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1709.00
7.5 kVAr ▲	QHHTCC5007X5	PHANTOM HD 440 V 50 Hz 7.5 kVAr 3 PH	1 N	16 N	2430.00
10 kVAr ▲	QHHTCC5010X0	PHANTOM HD 440 V 50 Hz 10 kVAr 3 PH	1 N	16 N	3233.00
12.5 kVAr ▲	QHHTCC5012X5	PHANTOM HD 440 V 50 Hz 12.5 kVAr 3 PH	1 N	8 N	4047.00
15 kVAr ▲	QHHTCC5015X0	PHANTOM HD 440 V 50 Hz 15 kVAr 3 PH	1 N	8 N	4854.00
20 kVAr ▲	QHHTCC5020X0	PHANTOM HD 440 V 50 Hz 20 kVAr 3 PH	1 N	4 N	6470.00
25 kVAr ▲	QHHTCC5025X0	PHANTOM HD 440 V 50 Hz 25 kVAr 3 PH	1 N	4 N	8081.00
30 kVAr	QHHTCC5030X0	PHANTOM HD 440 V 50 Hz 30 kVAr 3 PH	1 N	4 N	9703.00
50 kVAr	QHHTCC5050X0	PHANTOM HD 440 V 50 Hz 50 kVAr 3 PH	1 N	4 N	16162.00

▲ Stockable Item

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

(IS: 13340 / IEC: 60831)

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

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 (₹)
Rated Voltage 440 V AC, 3∅, 50 Hz, Delta Connection					
1 kVAr ▲	QHBTCC5001X0	Warrior Super Heavy Duty 440 V 50 Hz 1 kVAr 3 PH	1 N	16 N	568.00
2 kVAr ▲	QHBTCC5002X0	Warrior Super Heavy Duty 440 V 50 Hz 2 kVAr 3 PH	1 N	16 N	863.00
3 kVAr ▲	QHBTCC5003X0	Warrior Super Heavy Duty 440 V 50 Hz 3 kVAr 3 PH	1 N	16 N	1075.00
4 kVAr ▲	QHBTCC5004X0	Warrior Super Heavy Duty 440 V 50 Hz 4 kVAr 3 PH	1 N	16 N	1439.00
5 kVAr ▲	QHBTCC5005X0	Warrior Super Heavy Duty 440 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1866.00
6 kVAr	QHBTCC5006X0	Warrior Super Heavy Duty 440 V 50 Hz 7.5 kVAr 3 PH	1 N	8 N	2234.00
7.5 kVAr ▲	QHBTCC5007X5	Warrior Super Heavy Duty 440 V 50 Hz 6 kVAr 3 PH	1 N	8 N	2791.00
8 kVAr	QHBTCC5008X0	Warrior Super Heavy Duty 440 V 50 Hz 8 kVAr 3 PH	1 N	8 N	2981.00
10 kVAr ▲	QHBTCC5010X0	Warrior Super Heavy Duty 440 V 50 Hz 10 kVAr 3 PH	1 N	8 N	3721.00
12.5 kVAr ▲	QHBTCC5012X5	Warrior Super Heavy Duty 440 V 50 Hz 12.5 kVAr 3 PH	1 N	4 N	4651.00
15 kVAr ▲	QHBTCC5015X0	Warrior Super Heavy Duty 440 V 50 Hz 15 kVAr 3 PH	1 N	4 N	5582.00
20 kVAr ▲	QHBTCC5020X0	Warrior Super Heavy Duty 440 V 50 Hz 20 kVAr 3 PH	1 N	4 N	7442.00
25 kVAr ▲	QHBTCC5025X0	Warrior Super Heavy Duty 440 V 50 Hz 25 kVAr 3 PH	1 N	4 N	9302.00
30 kVAr	QHBTCC5030X0	Warrior Super Heavy Duty 440 V 50 Hz 30 kVAr 3 PH	1 N	4 N	11162.00
Rated Voltage 480 V AC, 3∅, 50 Hz, Delta Connection					
5 kVAr	QHBTCD5005X0	Warrior Super Heavy Duty 480 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1920.00
7.5 kVAr	QHBTCD5007X5	Warrior Super Heavy Duty 480 V 50 Hz 7.5 kVAr 3 PH	1 N	8 N	2888.00
10 kVAr	QHBTCD5010X0	Warrior Super Heavy Duty 480 V 50 Hz 10 kVAr 3 PH	1 N	8 N	3846.00
12.5 kVAr	QHBTCD5012X5	Warrior Super Heavy Duty 480 V 50 Hz 12.5 kVAr 3 PH	1 N	4 N	4803.00
15 kVAr	QHBTCD5015X0	Warrior Super Heavy Duty 480 V 50 Hz 15 kVAr 3 PH	1 N	4 N	5760.00
20 kVAr	QHBTCD5020X0	Warrior Super Heavy Duty 480 V 50 Hz 20 kVAr 3 PH	1 N	4 N	7671.00
25 kVAr	QHBTCD5025X0	Warrior Super Heavy Duty 480 V 50 Hz 25 kVAr 3 PH	1 N	4 N	9599.00
30 kVAr	QHBTCD5030X0	Warrior Super Heavy Duty 480 V 50 Hz 30 kVAr 3 PH	1 N	4 N	11519.00
Rated Voltage 525 V AC, 3∅, 50 Hz, Delta Connection					
5 kVAr	QHBTCF5005X0	Warrior Super Heavy Duty 525 V 50 Hz 5 kVAr 3 PH	1 N	16 N	1920.00
7.5 kVAr	QHBTCF5007X5	Warrior Super Heavy Duty 525 V 50 Hz 7.5 kVAr 3 PH	1 N	8 N	2888.00
10 kVAr	QHBTCF5010X0	Warrior Super Heavy Duty 525 V 50 Hz 10 kVAr 3 PH	1 N	8 N	3846.00
12.5 kVAr	QHBTCF5012X5	Warrior Super Heavy Duty 525 V 50 Hz 12.5 kVAr 3 PH	1 N	4 N	4803.00
15 kVAr	QHBTCF5015X0	Warrior Super Heavy Duty 525 V 50 Hz 15 kVAr 3 PH	1 N	4 N	5760.00
20 kVAr	QHBTCF5020X0	Warrior Super Heavy Duty 525 V 50 Hz 20 kVAr 3 PH	1 N	4 N	7674.00
25 kVAr	QHBTCF5025X0	Warrior Super Heavy Duty 525 V 50 Hz 25 kVAr 3 PH	1 N	4 N	9599.00
30 kVAr	QHBTCF5030X0	Warrior Super Heavy Duty 525 V 50 Hz 30 kVAr 3 PH	1 N	4 N	11519.00

▲ Stockable Item

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

(IS: 13340 / IEC: 60831)

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 (₹)
Rated Voltage 440 V AC, 3∅, 50 Hz, Delta Connection					
1 kVAr ▲	QHNTMC5001X0	Mini Master 440 V 50 Hz-1 kVAr 3 PH	1 N	30 N	529.00
2 kVAr ▲	QHNTMC5002X0	Mini Master 440 V 50 Hz-2 kVAr 3 PH	1 N	30 N	529.00
3 kVAr ▲	QHNTMC5003X0	Mini Master 440 V 50 Hz-3 kVAr 3 PH	1 N	24 N	1075.00
4 kVAr ▲	QHNTMC5004X0	Mini Master 440 V 50 Hz-4 kVAr 3 PH	1 N	24 N	1433.00
5 kVAr ▲	QHNTMC5005X0	Mini Master 440 V 50 Hz-5 kVAr 3 PH	1 N	24 N	1671.00
6 kVAr ▲	QHNTMC5006X0	Master 440 V 50 Hz-6 kVAr 3 PH	1 N	1 N	2007.00
7.5 kVAr ▲	QHNTMC5007X5	Master 440 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	2499.00
8 kVAr ▲	QHNTMC5008X0	Master 440 V 50 Hz-8 kVAr 3 PH	1 N	1 N	2667.00
10 kVAr ▲	QHNTMC5010X0	Master 440 V 50 Hz-10 kVAr 3 PH	1 N	1 N	3337.00
12.5 kVAr ▲	QHNTMC5012X5	Master 440 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	4170.00
15 kVAr ▲	QHNTMC5015X0	Master 440 V 50 Hz-15 kVAr 3 PH	1 N	1 N	5002.00
20 kVAr ▲	QHNTMC5020X0	Master 440 V 50 Hz-20 kVAr 3 PH	1 N	1 N	6668.00
25 kVAr ▲	QHNTMC5025X0	Master 440 V 50 Hz-25 kVAr 3 PH	1 N	1 N	8335.00
30 kVAr	QHNTMC5030X0	Master 440 V 50 Hz-30 kVAr 3 PH	1 N	1 N	10000.00
50 kVAr	QHNTMC5050X0	Master 440 V 50 Hz-50 kVAr 3 PH	1 N	1 N	16668.00

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

Other Ratings on request

(IS: 13340 / IEC: 60831)

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

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 (₹)
Rated Voltage 440 V AC, 3∅, 50 Hz, Delta Connection					
1 kVAr	QHBTMC5001X0	Champ 440 V 50 Hz-1 kVAr 3 PH	1 N	30 N	591.00
2 kVAr	QHBTMC5002X0	Champ 440 V 50 Hz-2 kVAr 3 PH	1 N	30 N	973.00
3 kVAr ▲	QHBTMC5003X0	Champ 440 V 50 Hz-3 kVAr 3 PH	1 N	24 N	1458.00
4 kVAr	QHBTMC5004X0	Champ 440 V 50 Hz-4 kVAr 3 PH	1 N	24 N	1945.00
5 kVAr ▲	QHBTMC5005X0	Champ 440 V 50 Hz-5 kVAr 3 PH	1 N	1 N	2354.00
6 kVAr	QHBTMC5006X0	Champ 440 V 50 Hz-6 kVAr 3 PH	1 N	1 N	2818.00
7.5 kVAr ▲	QHBTMC5007X5	Champ 440 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	3522.00
8 kVAr	QHBTMC5008X0	Champ 440 V 50 Hz-8 kVAr 3 PH	1 N	1 N	3757.00
10 kVAr ▲	QHBTMC5010X0	Champ 440 V 50 Hz-10 kVAr 3 PH	1 N	1 N	4690.00
12.5 kVAr ▲	QHBTMC5012X5	Champ 440 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	5864.00
15 kVAr ▲	QHBTMC5015X0	Champ 440 V 50 Hz-15 kVAr 3 PH	1 N	1 N	7043.00
20 kVAr ▲	QHBTMC5020X0	Champ 440 V 50 Hz-20 kVAr 3 PH	1 N	1 N	9386.00
25 kVAr ▲	QHBTMC5025X0	Champ 440 V 50 Hz-25 kVAr 3PH	1 N	1 N	11734.00
30 kVAr	QHBTMC5030X0	Champ 440 V 50 Hz-30 kVAr 3 PH	1 N	1 N	14076.00
50 kVAr	QHBTMC5050X0	Champ 440 V 50 Hz-50 kVAr 3 PH	1 N	1 N	24674.00
Rated Voltage 480 V AC, 3∅, 50 Hz, Delta Connection					
5 kVAr	QHBTMD5005X0	Champ 480 V 50 Hz-5 kVAr 3 PH	1 N	1 N	2523.00
6 kVAr	QHBTMD5006X0	Champ 480 V 50 Hz-6 kVAr 3 PH	1 N	1 N	3030.00
7.5 kVAr	QHBTMD5007X5	Champ 480 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	3789.00
10 kVAr	QHBTMD5010X0	Champ 480 V 50 Hz-10 kVAr 3 PH	1 N	1 N	5050.00
12.5 kVAr	QHBTMD5012X5	Champ 480 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	6312.00
15 kVAr	QHBTMD5015X0	Champ 480 V 50 Hz-15 kVAr 3 PH	1 N	1 N	7573.00
20 kVAr	QHBTMD5020X0	Champ 480 V 50 Hz-20 kVAr 3 PH	1 N	1 N	10095.00
25 kVAr	QHBTMD5025X0	Champ 480 V 50 Hz-25 kVAr 3 PH	1 N	1 N	12618.00
30 kVAr	QHBTMD5030X0	Champ 480 V 50 Hz-30 kVAr 3 PH	1 N	1 N	15146.00
50 kVAr	QHBTMD5050X0	Champ 480 V 50 Hz-50 kVAr 3 PH	1 N	1 N	25242.00
Rated Voltage 525 V AC, 3∅, 50 Hz, Delta Connection					
5 kVAr	QHBTMF5005X0	Champ 525 V 50 Hz-5 kVAr 3 PH	1 N	1 N	2523.00
6 kVAr	QHBTMF5006X0	Champ 525 V 50 Hz-6 kVAr 3 PH	1 N	1 N	3030.00
7.5 kVAr	QHBTMF5007X5	Champ 525 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	3789.00
10 kVAr	QHBTMF5010X0	Champ 525 V 50 Hz-10 kVAr 3 PH	1 N	1 N	5050.00
12.5 kVAr	QHBTMF5012X5	Champ 525 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	6312.00
15 kVAr	QHBTMF5015X0	Champ 525 V 50 Hz-15 kVAr 3 PH	1 N	1 N	7573.00
20 kVAr	QHBTMF5020X0	Champ 525 V 50 Hz-20 kVAr 3 PH	1 N	1 N	10095.00
25 kVAr	QHBTMF5025X0	Champ 525 V 50 Hz-25 kVAr 3 PH	1 N	1 N	12618.00
30 kVAr	QHBTMF5030X0	Champ 525 V 50 Hz-30 kVAr 3 PH	1 N	1 N	15146.00
50 kVAr	QHBTMF5050X0	Champ 525 V 50 Hz-50 kVAr 3 PH	1 N	1 N	26038.00

**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)

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 (₹)
Rated Voltage 440 V AC, 3∅, 50 Hz, Delta Connection					
1 kVAr	QHSTMC5001X0	Champion 440 V 50 Hz-1 kVAr 3 PH	1 N	16 N	1341.00
2 kVAr	QHSTMC5002X0	Champion 440 V 50 Hz-2 kVAr 3 PH	1 N	1 N	2671.00
3 kVAr	QHSTMC5003X0	Champion 440 V 50 Hz-3 kVAr 3 PH	1 N	1 N	4013.00
4 kVAr	QHSTMC5004X0	Champion 440 V 50 Hz-4 kVAr 3 PH	1 N	1 N	4650.00
5 kVAr	QHSTMC5005X0	Champion 440 V 50 Hz-5 kVAr 3 PH	1 N	1 N	4694.00
6 kVAr	QHSTMC5006X0	Champion 440 V 50 Hz-6 kVAr 3 PH	1 N	1 N	5311.00
7.5 kVAr	QHSTMC5007X5	Champion 440 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	6636.00
8 kVAr	QHSTMC5008X0	Champion 440 V 50 Hz-8 kVAr 3 PH	1 N	1 N	7079.00
10 kVAr	QHSTMC5010X0	Champion 440 V 50 Hz-10 kVAr 3 PH	1 N	1 N	8848.00
12.5 kVAr	QHSTMC5012X5	Champion 440 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	11059.00
15 kVAr	QHSTMC5015X0	Champion 440 V 50 Hz-15 kVAr 3 PH	1 N	1 N	13261.00
20 kVAr	QHSTMC5020X0	Champion 440 V 50 Hz-20 kVAr 3 PH	1 N	1 N	17684.00
25 kVAr	QHSTMC5025X0	Champion 440 V 50 Hz-25 kVAr 3 PH	1 N	1 N	22108.00
30 kVAr	QHSTMC5030X0	Champion 440 V 50 Hz-30 kVAr 3 PH	1 N	1 N	27705.00
50 kVAr	QHSTMC5050X0	Champion 440 V 50 Hz-50 kVAr 3 PH	1 N	1 N	46179.00
Rated Voltage 480 V AC, 3∅, 50 Hz, Delta Connection					
5 kVAr	QHSTMD5005X0	Champion 480 V 50 Hz-5 kVAr 3 PH	1 N	1 N	4743.00
6 kVAr	QHSTMD5006X0	Champion 480 V 50 Hz-6 kVAr 3 PH	1 N	1 N	5365.00
7.5 kVAr	QHSTMD5007X5	Champion 480 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	6700.00
10 kVAr	QHSTMD5010X0	Champion 480 V 50 Hz-10 kVAr 3 PH	1 N	1 N	8934.00
12.5 kVAr	QHSTMD5012X5	Champion 480 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	11167.00
15 kVAr	QHSTMD5015X0	Champion 480 V 50 Hz-15 kVAr 3 PH	1 N	1 N	13401.00
20 kVAr	QHSTMD5020X0	Champion 480 V 50 Hz-20 kVAr 3 PH	1 N	1 N	17863.00
25 kVAr	QHSTMD5025X0	Champion 480 V 50 Hz-25 kVAr 3 PH	1 N	1 N	22329.00
30 kVAr	QHSTMD5030X0	Champion 480 V 50 Hz-30 kVAr 3 PH	1 N	1 N	27986.00
50 kVAr	QHSTMD5050X0	Champion 480 V 50 Hz-50 kVAr 3 PH	1 N	1 N	46638.00
Rated Voltage 525 V AC, 3ø, 50 Hz, Delta Connection					
5 kVAr	QHSTMF5005X0	Champion 525 V 50 Hz-5 kVAr 3 PH	1 N	1 N	4792.00
6 kVAr	QHSTMF5006X0	Champion 525 V 50 Hz-6 kVAr 3 PH	1 N	1 N	5414.00
7.5 kVAr	QHSTMF5007X5	Champion 525 V 50 Hz-7.5 kVAr 3 PH	1 N	1 N	6766.00
10 kVAr	QHSTMF5010X0	Champion 525 V 50 Hz-10 kVAr 3 PH	1 N	1 N	9026.00
12.5 kVAr	QHSTMF5012X5	Champion 525 V 50 Hz-12.5 kVAr 3 PH	1 N	1 N	11281.00
15 kVAr	QHSTMF5015X0	Champion 525 V 50 Hz-15 kVAr 3 PH	1 N	1 N	13536.00
20 kVAr	QHSTMF5020X0	Champion 525 V 50 Hz-20 kVAr 3 PH	1 N	1 N	18047.00
25 kVAr	QHSTMF5025X0	Champion 525 V 50 Hz-25 kVAr 3 PH	1 N	1 N	22551.00
30 kVAr	QHSTMF5030X0	Champion 525 V 50 Hz-30 kVAr 3 PH	1 N	1 N	28268.00
50 kVAr	QHSTMF5050X0	Champion 525 V 50 Hz-50 kVAr 3 PH	1 N	1 N	47115.00

**Higher Rating above 50 kVAr available on request.

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

(IS: 13340)

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

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 (₹)
Rated Voltage 440 V AC, F = 50 Hz, P = 7% (Fr = 189 Hz) / Linearity: L > 0.95 Lr for current up to 1.85 . I1 (Aluminium)			
1 kVAr	QHLTLCV001X0	H. D.- REACTOR, 7% AL, 01 kVAr 440 V AC	7155.00
2 kVAr	QHLTLCV002X0	H. D.- REACTOR, 7% AL, 02 kVAr 440 V AC	7800.00
3 kVAr	QHLTLCV003X0	H. D.- REACTOR, 7% AL, 03 kVAr 440 V AC	8834.00
4 kVAr	QHLTLCV004X0	H. D.- REACTOR, 7% AL, 04 kVAr 440 V AC	9396.00
5 kVAr	QHLTLCV005X0	H. D.- REACTOR, 7% AL, 05 kVAr 440 V AC	11580.00
10 kVAr	QHLTLCV010X0	H. D.- REACTOR, 7% AL, 10 kVAr 440 V AC	14085.00
12.5 kVAr	QHLTLCV012X5	H. D.- REACTOR, 7% AL, 12.5 kVAr 440 V AC	14399.00
15 kVAr	QHLTLCV015X0	H. D.- REACTOR, 7% AL, 15 kVAr 440 V AC	20504.00
20 kVAr	QHLTLCV020X0	H. D.- REACTOR, 7% AL, 20 kVAr 440 V AC	22537.00
25 kVAr	QHLTLCV025X0	H. D.- REACTOR, 7% AL, 25 kVAr 440 V AC	23318.00
50 kVAr	QHLTLCV050X0	H. D.- REACTOR, 7% AL, 50 kVAr 440 V AC	37228.00
75 kVAr	QHLTLCV075X0	H. D.- REACTOR, 7% AL, 75 kVAr 440 V AC	61658.00
100 kVAr	QHLTLCV100X0	H. D.- REACTOR, 7% AL, 100 kVAr 440 V AC	70419.00
Rated Voltage 440 V AC, F = 50 Hz, P = 14% (Fr = 189 Hz) / Linearity: L > 0.95 Lr for current up to 1.85 . I1 (Aluminium)			
5 kVAr	QHLTLCW005X0	H. D.- REACTOR, 14% AL, 05 kVAr 440 V AC	Price on Request
10 kVAr	QHLTLCW010X0	H. D.- REACTOR, 14% AL, 10 kVAr 440 V AC	
12.5 kVAr	QHLTLCW012X5	H. D.- REACTOR, 14% AL, 12.5 kVAr 440 V AC	
15 kVAr	QHLTLCW015X0	H. D.- REACTOR, 14% AL, 15 kVAr 440 V AC	
20 kVAr	QHLTLCW020X0	H. D.- REACTOR, 14% AL, 20 kVAr 440 V AC	
25 kVAr	QHLTLCW025X0	H. D.- REACTOR, 14% AL, 25 kVAr 440 V AC	
50 kVAr	QHLTLCW050X0	H. D.- REACTOR, 14% AL, 50 kVAr 440 V AC	
75 kVAr	QHLTLCW075X0	H. D.- REACTOR, 14% AL, 75 kVAr 440 V AC	
100 kVAr	QHLTLCW100X0	H. D.- REACTOR, 14% AL, 100 kVAr 440 V AC	

Harmonic Detuned Reactor Copper

HSN Code: 85049090

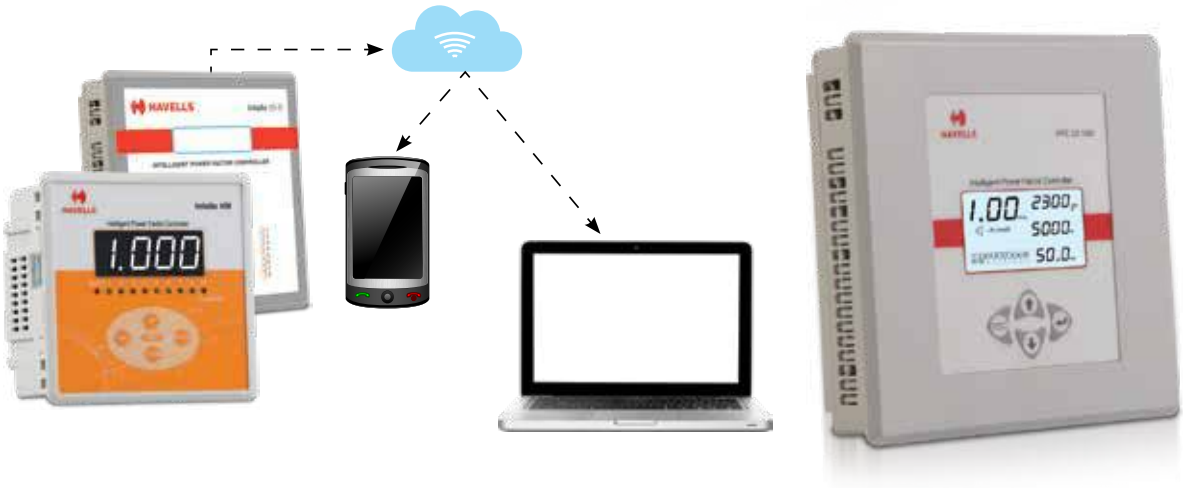
Rating kVAr	Cat. Code	Description	Per Unit LP (₹)
Rated Voltage 440 V AC, F = 50 Hz, P = 7% (Fr = 133 Hz) / Linearity: L > 0.95 Lr for current up to 1.85 . I1, (Copper)			
1 kVAr	QHCTLCV001X0	H. D.- REACTOR, 7% CU, 01 kVAr 440 V AC	11194.00
2 kVAr	QHCTLCV002X0	H. D.- REACTOR, 7% CU, 02 kVAr 440 V AC	12224.00
3 kVAr	QHCTLCV003X0	H. D.- REACTOR, 7% CU, 03 kVAr 440 V AC	13855.00
4 kVAr	QHCTLCV004X0	H. D.- REACTOR, 7% CU, 04 kVAr 440 V AC	14729.00
5 kVAr	QHCTLCV005X0	H. D.- REACTOR, 7% CU, 05 kVAr 440 V AC	17164.00
10 kVAr	QHCTLCV010X0	H. D.- REACTOR, 7% CU, 10 kVAr 440 V AC	23989.00
12.5 kVAr	QHCTLCV012X5	H. D.- REACTOR, 7% CU, 12.5 kVAr 440 V AC	24682.00
15 kVAr	QHCTLCV015X0	H. D.- REACTOR, 7% CU, 15 kVAr 440 V AC	35369.00
20 kVAr	QHCTLCV020X0	H. D.- REACTOR, 7% CU, 20 kVAr 440 V AC	36610.00
25 kVAr	QHCTLCV025X0	H. D.- REACTOR, 7% CU, 25 kVAr 440 V AC	37297.00
50 kVAr	QHCTLCV050X0	H. D.- REACTOR, 7% CU, 50 kVAr 440 V AC	56259.00
75 kVAr	QHCTLCV075X0	H. D.- REACTOR, 7% CU, 75 kVAr 440 V AC	92788.00
100 kVAr	QHCTLCV100X0	H. D.- REACTOR, 7% CU, 100 kVAr 440 V AC	119253.00
Rated Voltage 440 V AC, F = 50 Hz, P = 14% (Fr = 189 Hz) / Linearity: L > 0.95 Lr for current up to 1.85 . I1 (Copper)			
5 kVAr	QHCTLCW005X0	H. D.- REACTOR, 14% CU, 05 kVAr 440 V AC	Price on Request
10 kVAr	QHCTLCW010X0	H. D.- REACTOR, 14% CU, 10 kVAr 440 V AC	
12.5 kVAr	QHCTLCW012X5	H. D.- REACTOR, 14% CU, 12.5 kVAr 440 V AC	
15 kVAr	QHCTLCW015X0	H. D.- REACTOR, 14% CU, 15 kVAr 440 V AC	
20 kVAr	QHCTLCW020X0	H. D.- REACTOR, 14% CU, 20 kVAr 440 V AC	
25 kVAr	QHCTLCW025X0	H. D.- REACTOR, 14% CU, 25 kVAr 440 V AC	
50 kVAr	QHCTLCW050X0	H. D.- REACTOR, 14% CU, 50 kVAr 440 V AC	
75 kVAr	QHCTLCW075X0	H. D.- REACTOR, 14% CU, 75 kVAr 440 V AC	
100 kVAr	QHCTLCW100X0	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 segement 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	8125.00
8 ▲	QHOSBS5N0008	IPFC CS 144 x 144	1 N	5 N	13421.00
12 ▲	QHOSBS5N0012	IPFC CS 1001-112-90 V / 550 V AC 144 x 144	1 N	5 N	15578.00
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	21512.00
12 ▲	QHOTBS5H0012	IPFC CS 1003-312-90 V / 550 V AC 144 x 144	1 N	5 N	26836.00

Capacitor Switching Solutions

Thyristor Switch

- Fast Switching Speed
- High power handling capacity
- Low losses
- Realibility and longebity
- Real time power factor correciton

HSN Code: 85371000

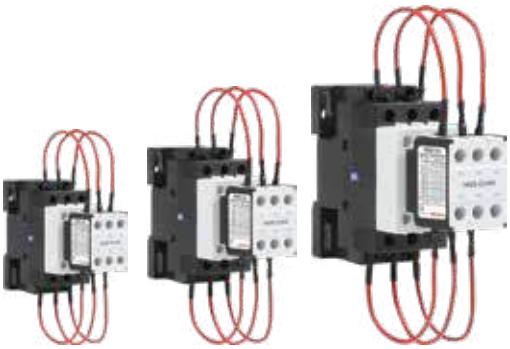
Cat. Code	Description	Per Unit LP (₹)
QHZCF00111	Thyristor Switch 15 kVAr	38112.00
QHZCF00121	Thyristor Switch 25 kVAr	43484.00
QHZCF00131	Thyristor Switch 50 kVAr	52287.00
QHZCF00141	Thyristor Switch 100 kVAr	78678.00

Other Ratings on request

▲ Stockable Item

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

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*	4230.00
	3 kVAr	0	1	IHPHE003101*	4230.00
	5 kVAr ▲	1	0	IHPHE005110*	4435.00
	5 kVAr	0	1	IHPHE005101*	4435.00
	10 kVAr ▲	1	0	IHPHE010110*	5370.00
	10 kVAr	0	1	IHPHE010101*	5370.00
	12.5 kVAr	1	0	IHPHE12X110*	6335.00
	12.5 kVAr	0	1	IHPHE12X101*	6205.00
	15 kVAr ▲	1	0	IHPHE015110*	7760.00
	15 kVAr	0	1	IHPHE015101*	7760.00
2	20 kVAr ▲	1	0	IHPHE020210*	8530.00
	20 kVAr	0	1	IHPHE020201*	8530.00
	25 kVAr ▲	1	0	IHPHE025210*	9715.00
	25 kVAr	0	1	IHPHE025201*	9715.00
	33.3 kVAr	1	0	IHPHE33X210*	14090.00
	33.3 kVAr	0	1	IHPHE33X201*	14090.00
3	33.3 kVAr	1	1	IHPHE33X311*	16980.00
	40 kVAr	2	2	IHPHE040322*	26090.00
4	50 kVAr ▲	2	2	IHPHE050422*	27155.00
	66 kVAr	2	2	IHPHE066422*	31845.00

*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.

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

HAVELLS

Why pay more due to low Power Factor

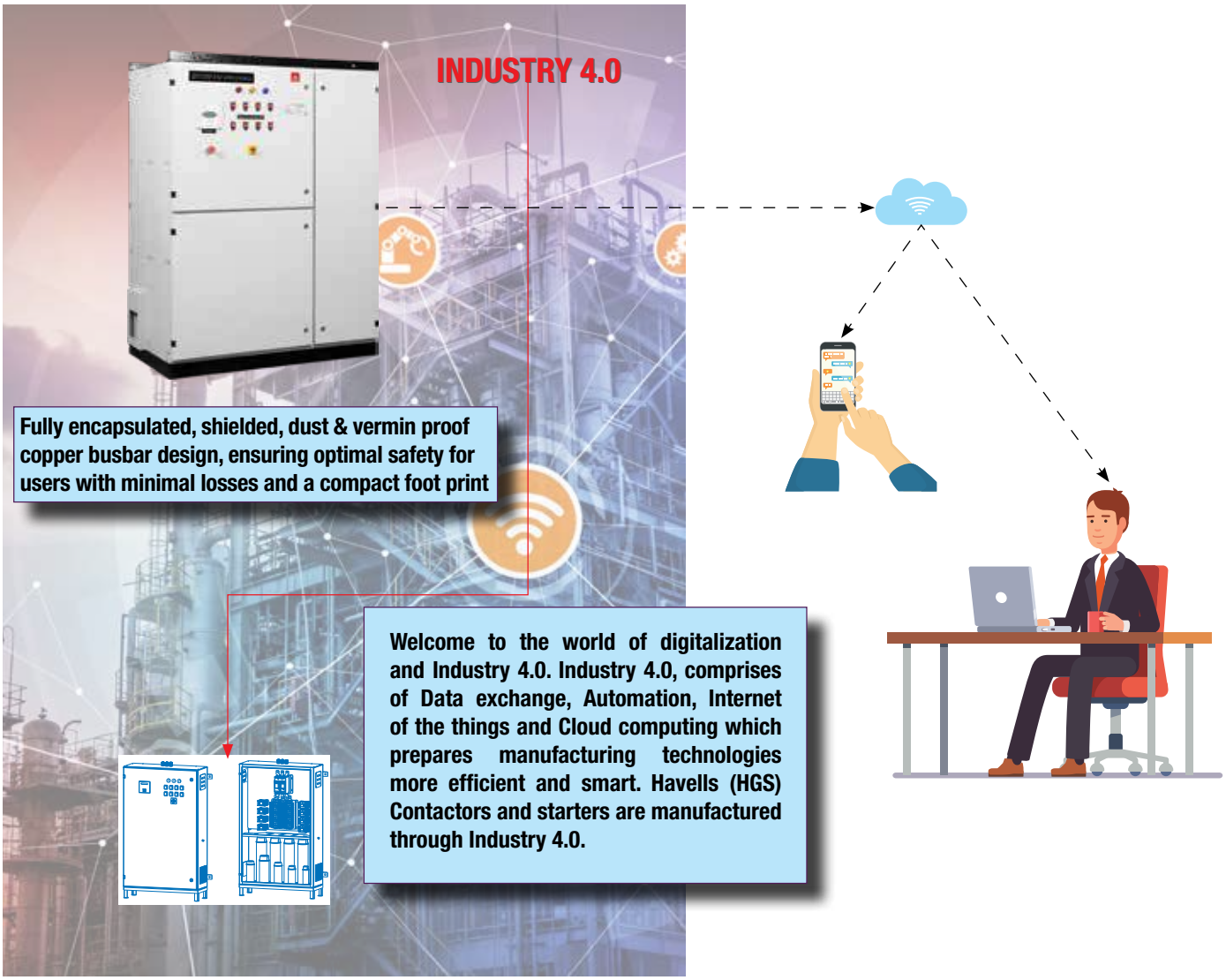
Is still there a difference in kVAh and kWh in your Electricity Bill due to low Power Factor ?

INSTALL APFC PANEL & SAVE MONEY BY REDUCING kVAh

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



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 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, 3ø, 50 Hz, Delta Connection, Super Heavy Duty Cylindrical Capacitor				
15 kVAr	QHXTCB5015X0	15 kVAr / 415 V APFC Panel CYCAP	MCB 40 A / 10 kA	92796.00
20 kVAr	QHXTCB5020X0	20 kVAr / 415 V APFC Panel CYCAP	MCB 40 A / 10 kA	100214.00
25 kVAr	QHXTCB5025X0	25 kVAr / 415 V APFC Panel CYCAP	MCB 63 A / 10 kA	111969.00
30 kVAr	QHXTCB5030X0	30 kVAr / 415 V APFC Panel CYCAP	MCB 63 A / 10 kA	133619.00
40 kVAr	QHXTCB5040X0	40 kVAr / 415 V APFC Panel CYCAP	MCCB 100 A / 25 kA	182108.00
50 kVAr	QHXTCB5050X0	50 kVAr / 415 V APFC Panel CYCAP	MCCB 100 A / 25 kA	205136.00
75 kVAr	QHXTCB5075X0	75 kVAr / 415 V APFC Panel CYCAP	MCCB 160 A / 25 kA	303125.00
80 kVAr	QHXTCB5080X0	80 kVAr / 415 V APFC Panel CYCAP	MCCB 160 A / 25 kA	322300.00
100 kVAr	QHXTCB5100X0	100 kVAr / 415 V APFC Panel CYCAP	MCCB 160 A / 25 kA	353233.00
125 kVAr	QHXTCB5125X0	125 kVAr / 415 V APFC Panel CYCAP	MCCB 250 A / 25 kA	488711.00
150 kVAr	QHXTCB5150X0	150 kVAr / 415 V APFC Panel CYCAP	MCCB 320 A / 35 kA	556139.00
175 kVAr	QHXTCB5175X0	175 kVAr / 415 V APFC Panel CYCAP	MCCB 320 A / 35 kA	614906.00
200 kVAr	QHXTCB5200X0	200 kVAr / 415 V APFC Panel CYCAP	MCCB 400 A / 35 kA	704853.00
250 kVAr	QHXTCB5250X0	250 kVAr / 415 V APFC Panel CYCAP	MCCB 500 A / 35 kA	873118.00
300 kVAr	QHXTCB5300X0	300 kVAr / 415 V APFC Panel CYCAP	MCCB 630 A / 50 kA	1008350.00
350 kVAr	QHXTCB5350X0	350 kVAr / 415 V APFC Panel CYCAP	MCCB 630 A / 50 kA	1135162.00

* for Higher rating please contact our branch office

APFC Technical Details

Rating kVAr	Stages	Dimensions HeightXWidhXDepth (mm)
Rated Voltage 415 V AC, 3ø, 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.

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 harmoninc order (odd harmonics)[a, b]						
I_{sc}/I_L	3≤h<11	11≤h<17	17≤h<23	23≤h<35	35≤h≤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 (₹)
30 A - 1000 A		30 A -1000 A AHF Panel	Price on Request
30 kVAr - 1000 kVAr		30 kVAr -1000 kVAr SVG Panel	

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

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 kVAr / 415 SVG Module	On Request
50 kVAr		50 kVAr / 415 SVG Module	
75 kVAr		75 kVAr / 415 SVG Module	
100 kVAr		100 kVAr / 415 SVG Module	
125 kVAr		125 kVAr / 415 SVG Module	
150 kVAr		150 kVAr / 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

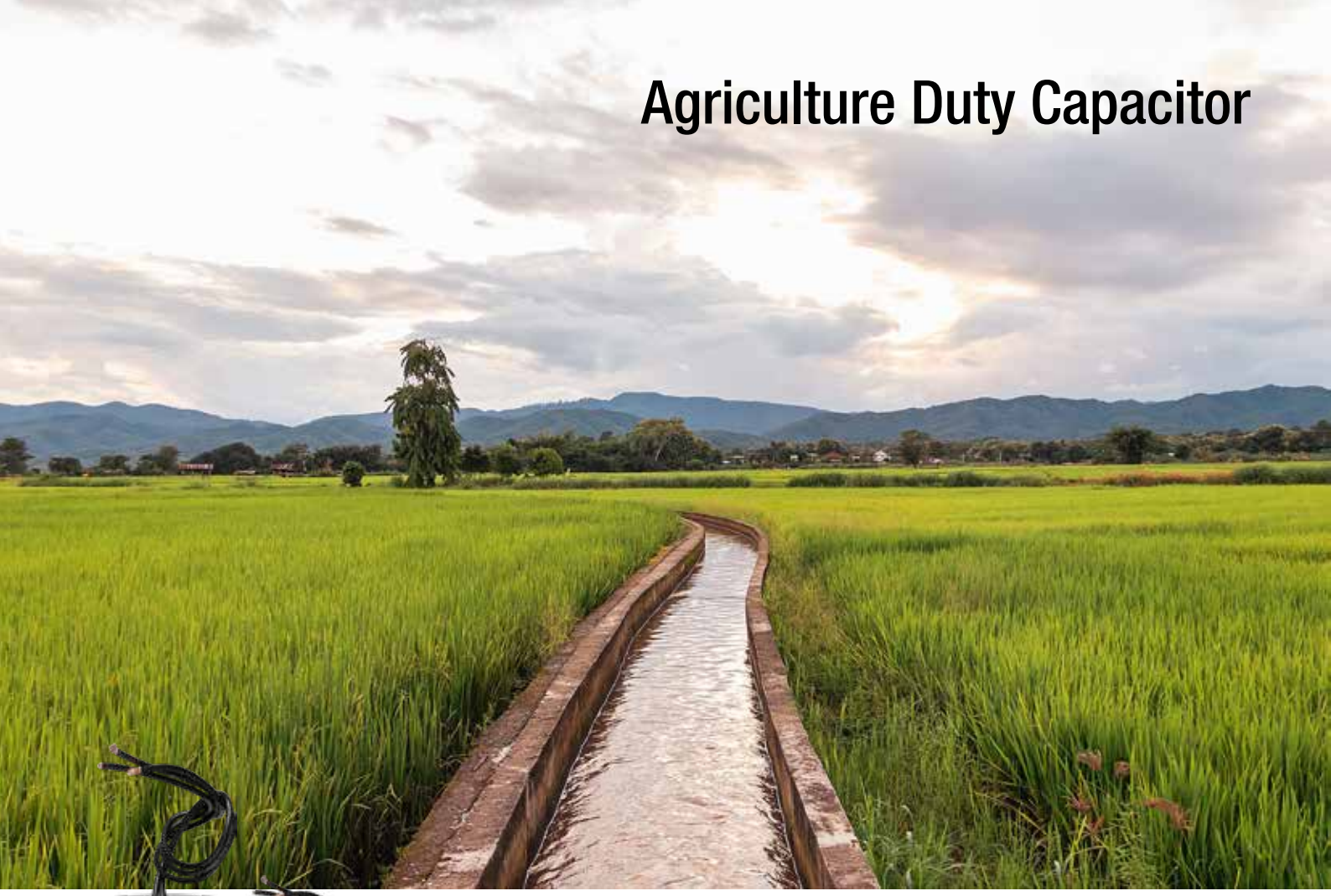
- Capturing load profile of all relevant sections (with non linear loads) starting with the PCC.
- Checking effectiveness of installed Reactive power compensation system
- Identify zones of failures harmonic.
- Study electricity bills and identify scope of optimization in energy consumption pattern.

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).

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

Agriculture Duty Capacitor



- Range : 1 kVAr to 15 kVAr
- Voltage 415 V
- MPP SH, Resin Vielled
- 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 (₹)
Rated Voltage 415 V AC, 3φ, 50 Hz, Delta Connection					
1 kVAr ▲	QHATCB5001X0	AGRI BOOSTND 415 V 50 Hz-1 kVAr 3 PH	1 N	16 N	412.00
2 kVAr ▲	QHATCB5002X0	AGRI BOOSTND 415 V 50 Hz-2 kVAr 3 PH	1 N	16 N	460.00
3 kVAr ▲	QHATCB5003X0	AGRI BOOSTND 415 V 50 Hz-3 kVAr 3 PH	1 N	16 N	676.00
4 kVAr ▲	QHATCB5004X0	AGRI BOOSTND 415 V 50 Hz-4 kVAr 3 PH	1 N	16 N	838.00
5 kVAr ▲	QHATCB5005X0	AGRI BOOSTND 415 V 50 Hz-5 kVAr 3 PH	1 N	16 N	1007.00
6 kVAr ▲	QHATCB5006X0	AGRI BOOSTND 415 V 50 Hz-6 kVAr 3 PH	1 N	16 N	1212.00
7.5 kVAr	QHATCB5007X5	AGRI BOOSTND 415 V 50 Hz-7.5 kVAr 3 PH	1 N	16 N	1509.00
8 kVAr ▲	QHATCB5008X0	AGRI BOOSTND 415 V 50 Hz-8 kVAr 3 PH	1 N	16 N	1612.00
10 kVAr ▲	QHATCB5010X0	AGRI BOOSTND 415 V 50 Hz-10 kVAr 3 PH	1 N	16 N	2012.00
12.5 kVAr ▲	QHATCB5012X5	AGRI BOOSTND 415 V 50 Hz-12.5 kVAr 3 PH	1 N	8 N	2515.00
15 kVAr ▲	QHATCB5015X0	AGRI BOOSTND 415 V 50 Hz-15 kVAr 3 PH	1 N	8 N	3013.00

▲ Stockable Item

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

(IS: 13340)

HAVELLS

ZHPL00021/MAR26/APR26

REGIONAL & BRANCH OFFICES:

NORTH - REGIONAL OFFICE: Corporate Office: QRG Towers, 2D, Sector-126, Expressway, Noida-201304, Tel: 0120-3331000, Delhi: 011-47676700, 23888200, Chandigarh: 0172-4232400-401, Dehradun: 0135-6670202, Haldwani: 05946-222935/222933, Noida / Haryana: 0120-3331000, Ludhiana: 0161-4676000/24, Amritsar: 0183-5202400/401, Jammu: 0191-2478330, 2479330, Sri Nagar: 0194-2459248, Jaipur: 0141-4211000, 4211011, Jodhpur: 9214201640/41, Lucknow: 0522- 4921600/4921649, Kanpur: 0512-6710400

EAST - REGIONAL OFFICE: Kolkata: ICC Tower, 5th Floor, 4 India Exchange Place, Kolkata-700001, Tel: 033-40129851/52, Bhubaneshwar: 0674-6668101/102/103/104, Guwahati: 0361-2458923, 2134521, Siliguri: 0353-2525907, Ranchi: 0651-2244861, 2244862, 2244864, 2244868, 2244869, Jamshedpur: 0657-6542492, 09234369436, Patna: 0612-2207221, 2207222, 2207223, 2655518

WEST - REGIONAL OFFICE: 1271, Solitaire Corporate Park, Bldg. No. 12, 7th Floor, Andheri - Ghatkopar Link Road, Chakala, Andheri (East), Mumbai- 400093. Tel: 022 - 67298600-602, Ahmedabad: 079-40061111, 40060738/740, Indore: 0731-4219444/4219422, 0731-2572340, Rajkot: 0281-2481112, 2921212, Nagpur: 0712-2240932, 2242692, 2242699 Pune: 020-26056175-76, Raipur: 0771-4243400/01, Surat: 0261-2350137, 9979890137, Jabalpur: 0761-4064491, Bhopal: 0755-4271544, 0755-4011025,

SOUTH - REGIONAL OFFICE: Chennai: Sigapi Achi Building, No. 18 / 3, 6th Floor, Rukmani Lakshmipathy Road, Egmore, Chennai-600008, Tel: 044-42280600, 605, Bangalore: 080-49075000, Coimbatore: 0422-4550200/282, Hyderabad: 040-27533372, 27533355, 27533632, Cochin: 0484-4099000, Calicut: 0495-4019193/4/5, Trivandrum: 0471-4015323, Vizag: 0891-6514339, Vijayawada: 0866-2546161/62/67/68/69, Madurai: 0452-4267000, Hubli: 0836-4248660, Trichy: 0431-4041005/06

Representative Offices: • Goa • Solapur • Gwalior • Kathmandu • Bhopal • Kolapur • Vadodara

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.

Terms & Conditions

- 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

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.

"Copyright Subsists. Imitation of trade dress, graphics and color scheme of this document is a punishable offence."

Note: All Products to be billed at 18% *GST (Subject to change as per Govt. Notification).

Havells India Ltd.
Corp Office: QRG Towers, 2D, Sector-126, Expressway, Noida-201304 (U.P.)
Ph. +91-120-3331000, Email:marketing@havells.com, www.havells.com
Customer Care No.: 08045 77 1313
Join us on Facebook at www.facebook.com/havells and share your ways to save planet!
CIN - L31900DL1983PLC016304

Scan the QR Code to download **Havells mCatalogue**