



**HAVELLS**

# LV Switchgear Controlgear & Power Quality Products

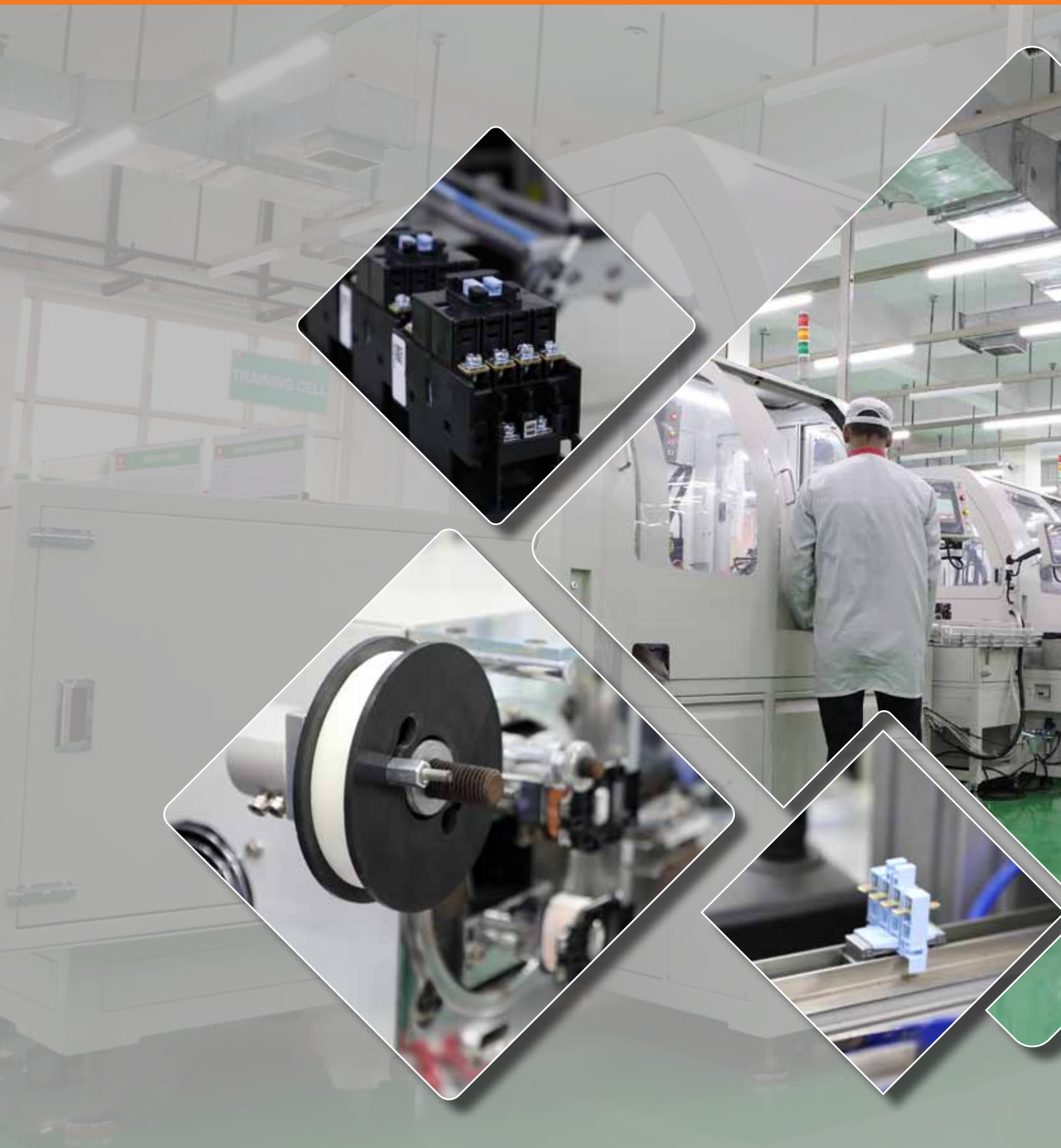


Pricelist w.e.f. 1st March, 2023

Effective from 1st March, 2023

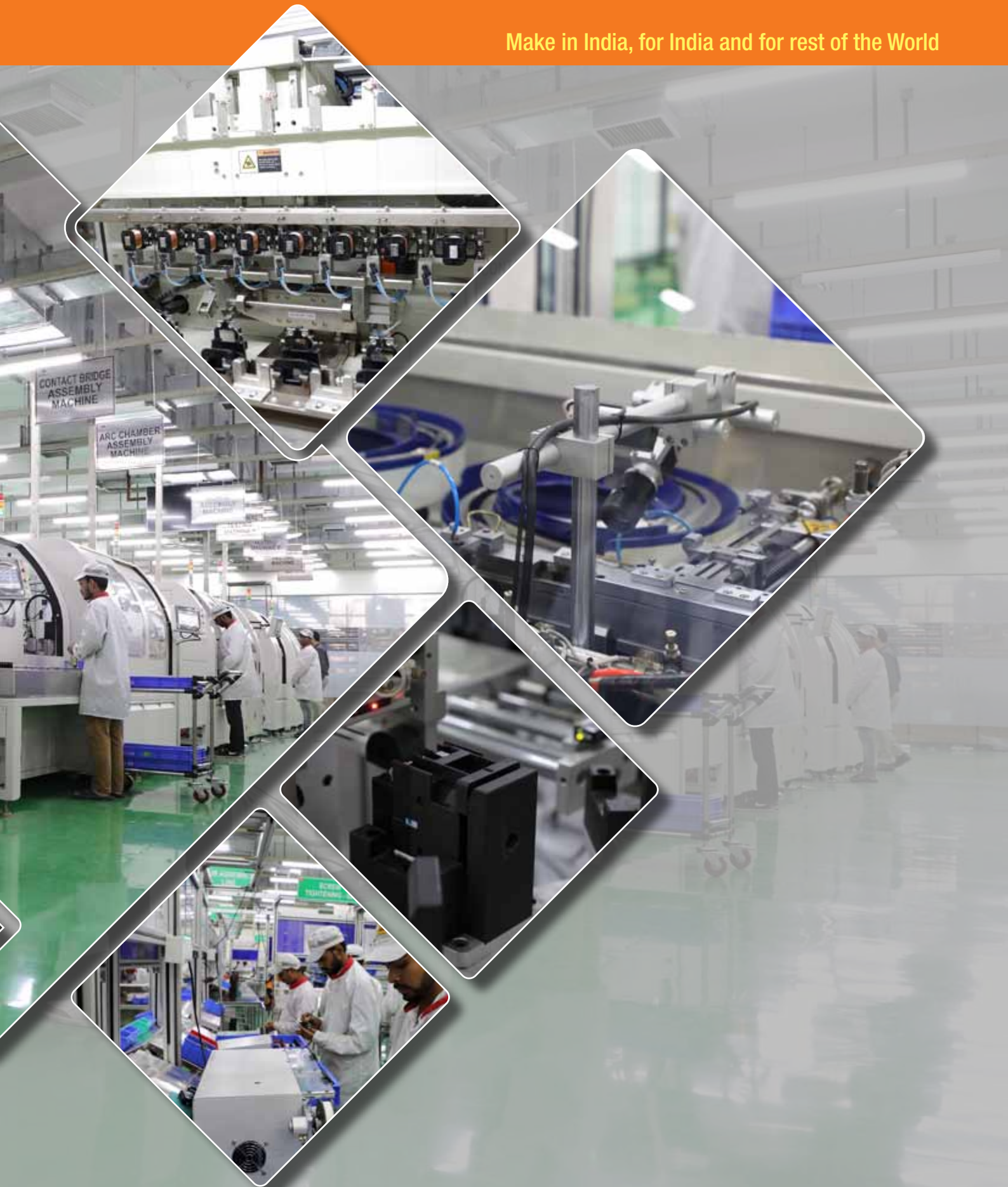
List Price (L.P.) are in Indian ₹ & as per Standard Terms & Conditions

# Fully Automated Plant



# Industry 4.0

Make in India, for India and for rest of the World



**Havells Global Series**

# Magnetic Contactors, Overload Relays & MPCBs

Designed for demanding applications & Tropical conditions



# HGS - Trusted Global Range

## Contactors, Overload Relays, Starters & MPCBs

Motor Control Solutions for higher Safety, Reliability & Performance



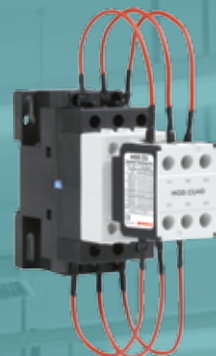
3 Pole Contactor  
Ratings - 9 A to 800 A (AC-3)



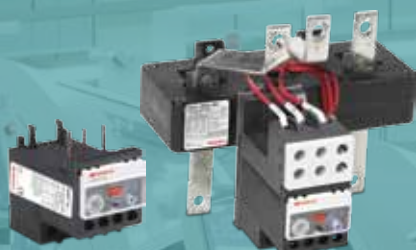
4 Pole Contactor  
Ratings - 16 A to 60 A (AC-1)



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



Capacitor Duty Contactor  
Ratings - 3 kVAr to 66 kVAr



Thermal Overload Relay  
Ratings - 0.12 A to 800 A



Motor Protection Circuit Breaker  
Ratings - 0.1 A to 32 A



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



Reversing Starters  
Ratings - 1.5 kW to 15 kW  
(2 HP to 20 HP)



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



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



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



Street Light Panels  
Ratings - 6 kW & 12 kW  
(1 $\phi$  & 3 $\phi$ )

# Contactor HGS 9 - 800 AF

## 3 Pole Power Contactors

### Wide Operating Band Coils

Finger proof IP 20 terminals

### Suitable for AC-4 (Inching & Plugging, e.g. Crane Duty) and other critical application

CE Marking & Compliance to IS/IEC 60947-4-1

High Electrical and Mechanical Durability with Higher operating frequency (Operations / Hour)

### Electrical Durability Curves available

Low Power Dissipation

Low VA Burden coils with Class H Insulation

Dust free Cover as in-built

Terminal Barrier and Shrouds

Nut Retaining Washers

In-built Auxiliary Contacts

Removable Arc-chutes  $\geq$  115 A Ratings

DIN Channel Mounting up to 100 A, Fr-4

### 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  
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 - 10A

Mounting Possibilities - Direct and Separate both

Automatic Reset or Manual Reset - Settable Button

Test Button - Can also be used as Emergency Stop Button

**Phase loss Protection - Differential Tripping Mechanism (Double Slide Construction)**

**- Accelerated tripping on Single Phasing Condition (40% - 60% Faster)**

Finger proof IP20 terminals

Sealable Protection Cover to prevent Unintended change in Protection settings



**150 AF**

**265 AF**

**500 AF**

**800 AF**

115 A, 130 A, 150 A  
1000 V

185 A, 225 A, 265 A  
1000 V

300 A, 400 A, 500 A  
1000 V

630 A, 800 A  
1000 V

48 A - 150 A

48 A - 265 A

90 A - 500 A

378 A - 800 A

# Magnetic Contactor

## 3 Pole Power Contactors

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

HSN Code: 8536

Frame Size	AC-3 Duty Rating at 415 V, 50 Hz	AC-1 Duty Rating at 415 V, 50 Hz	Power Poles	In-built Auxilliary Contacts		Type	Item Code	Per Unit LP (₹)
	I <sub>e</sub> A	I <sub>th</sub> A		NO	NC			
1	9 A	25 A	3	1	0	HGS 9	IHPHA009110*	1033.00
	9 A	25 A	3	0	1	HGS 9	IHPHA009101*	1033.00
	12 A	30 A	3	1	0	HGS 12	IHPHA012110*	1203.00
	12 A	30 A	3	0	1	HGS 12	IHPHA012101*	1203.00
	18 A	40 A	3	1	0	HGS 18	IHPHA018110*	1392.00
	18 A	40 A	3	0	1	HGS 18	IHPHA018101*	1392.00
	22 A	40 A	3	1	0	HGS 22	IHPHA022110*	1500.00
	22 A	40 A	3	0	1	HGS 22	IHPHA022101*	1500.00
2	25 A	45 A	3	1	0	HGS 25	IHPHA025210*	1747.00
	25 A	45 A	3	0	1	HGS 25	IHPHA025201*	1747.00
	32 A	55 A	3	1	0	HGS 32	IHPHA032210*	3683.00
	32 A	55 A	3	0	1	HGS 32	IHPHA032201*	3683.00
	40 A	60 A	3	1	0	HGS 40	IHPHA040210*	5490.00
	40 A	60 A	3	0	1	HGS 40	IHPHA040201*	5490.00
3	50 A	70 A	3	2	2	HGS 50	IHPHA050300*	7419.00
	65 A	85 A	3	2	2	HGS 65	IHPHA065300*	9288.00
4	75 A	110 A	3	2	2	HGS 75	IHPHA075400*	11121.00
	85 A	125 A	3	2	2	HGS 85	IHPHA085400*	13109.00
	100 A	135 A	3	2	2	HGS 100	IHPHA100400*	18898.00
5	115 A	160 A	3	2	2	HGS 115	IHPHA115500*	23745.00
	130 A	180 A	3	2	2	HGS 130	IHPHA130500*	24445.00
	150 A	210 A	3	2	2	HGS 150	IHPHA150500*	29796.00
6	185 A	275 A	3	2	2	HGS 185	IHPHA185600*	34460.00
	225 A	315 A	3	2	2	HGS 225	IHPHA225600*	37456.00
	265 A	350 A	3	2	2	HGS 265	IHPHA265600*	42159.00
7	300 A	400 A	3	2	2	HGS 300	IHPHA300700*	51775.00
	400 A	500 A	3	2	2	HGS 400	IHPHA400700*	64740.00
	500 A	550 A	3	2	2	HGS 500	IHPHA500700*	93264.00
8	630 A	750 A	3	2	2	HGS 630	IHPHA630800*	145498.00
	800 A	900 A	3	2	2	HGS 800	IHPHA800800*	234753.00



**NEW**

**NEW**



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

- Note:
1. For additional aux. contacts front/side mounted and mechanical interlock - refer accessories table.
  2. Standard Spare coil are available on request.



## Coil Voltage Selection Table

Frame Size	AC Coil Codes for Nominal Voltage at 50/60 Hz					
	B	H	N	T	Wide Band Coils	
					S	W
1	24 V	110 V	240 V	415 V	150 V-300 V	260 V-440 V
2	24 V	110 V	240 V	415 V	150 V-300 V	260 V-440 V
3	24 V	110 V	240 V	415 V		260 V-440 V
4	24 V	110 V	240 V	415 V		260 V-440 V



Type of Coil	AC/DC Universal Coil with in-built ECM* Module	AC Coil with in-built ECM* Module
Nominal volatge	240 V	415 V
Frame Size / Coil Codes	N	T
5	100 V ac -240 V ac 110 V dc -220 V dc	380 V ac - 450 V ac
6	100 V ac -240 V ac 110 V dc -220 V dc	380 V ac - 450 V ac
7	100 V ac -240 V ac 110 V dc -220 V dc	380 V ac - 450 V ac
8	200 V ac -240 V ac 200 V dc -200 V dc	380 V ac - 450 V ac



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 (If feasible)



## Magnetic Contactor

### 4 Pole Power Contactors with AC Coil

**Features:**

- AC-1 Ratings up to 60 A - AC1
- 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**

Frame Size	AC 1 Duty	Power Poles	Item Code	Per Unit LP (₹)	Power Poles	Item Code	Per Unit LP (₹)
1	16	4NO	IHPHC016100*	1237.00	2NO + 2NC	IHPHC016122*	1362.00
	20	4NO	IHPHC020100*	1264.00	2NO + 2NC	IHPHC020122*	1392.00
	25	4NO	IHPHC025100*	1364.00	2NO + 2NC	IHPHC025122*	1545.00
	32	4NO	IHPHC032100*	1399.00	2NO + 2NC	IHPHC032122*	1601.00
	40	4NO	IHPHC040100*	2111.00	2NO + 2NC	IHPHC040122*	2279.00
2	50	4NO	IHPHC050200*	2756.00	2NO + 2NC	IHPHC050222*	3088.00
	60	4NO	IHPHC060200*	5256.00	2NO + 2NC	IHPHC060222*	5892.00



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

## 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**

Frame size	I <sub>th</sub>	Contact arrangement		Type	Item Code	Per Unit LP (₹) with AC Coil
		NO	NC			
1	16 A	2	2	HGR 22	IHHAC22*	995.00
		3	1	HGR 31	IHHAC31*	995.00
		4	0	HGR 40	IHHAC40*	995.00
		0	4	HGR 04	IHHAC04*	995.00
		1	3	HGR 13	IHHAC13*	995.00

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

## Magnetic Contactor

### HGS 2 Pole Contactor with AC Coil

Frame Size	Material	Material description	Per Unit LP (₹)
1	IHPHF009100*	9A 2P HGS Contactor	775.00
	IHPHF012100*	12A 2P HGS Contactor	903.00
	IHPHF018100*	18A 2P HGS Contactor	1044.00
2	IHPHF025200*	25A 2P HGS Contactor	1223.00
	IHPHF032200*	32A 2P HGS Contactor	2579.00
	IHPHF040200*	40A 2P HGS Contactor	3843.00

# 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

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*	2155.00
	3 kVAr	0	1	IHPHE003101*	2155.00
	5 kVAr	1	0	IHPHE005110*	2261.00
	5 kVAr	0	1	IHPHE005101*	2261.00
	10 kVAr	1	0	IHPHE010110*	2738.00
	10 kVAr	0	1	IHPHE010101*	2738.00
	12.5 kVAr	1	0	IHPHE12X110*	3093.00
	12.5 kVAr	0	1	IHPHE12X101*	3093.00
	15 kVAr	1	0	IHPHE015110*	3787.00
	15 kVAr	0	1	IHPHE015101*	3787.00
2	20 kVAr	1	0	IHPHE020210*	4163.00
	20 kVAr	0	1	IHPHE020201*	4163.00
	25 kVAr	1	0	IHPHE025210*	4748.00
	25 kVAr	0	1	IHPHE025201*	4748.00
3	33.3 kVAr	1	0	IHPHE33X210*	6882.00
	33.3 kVAr	0	1	IHPHE33X201*	6882.00
	33.3 kVAr	1	1	IHPHE33X311*	8300.00
	40 kVAr	2	2	IHPHE040322*	12757.00
4	50 kVAr	2	2	IHPHE050422*	13272.00
	66 kVAr	2	2	IHPHE066422*	15575.00

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

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

Description	Configuraton	Suitable for	Type	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)	HGS SB	ISSPCU1969	645.00
		HGS50-HGS 100 (For all contactors in Frame-3 and Frame-4)		ISSPCU1970	
		HGS115- HGS 800		ISSPCU1971	763.00
Aux Contact Block (Top Mounting)	2NC	HGS9-HGS100 (For all contactors in Frame-1 to Frame-4)	HGS TB	ISSPCU1961	403.00
	1NO + 1NC			ISSPCU1962	
	2NO			ISSPCU1963	
	4NC			ISSPCU1964	666.00
	1NO + 3NC			ISSPCU1965	
	2NO + 2NC			ISSPCU1966	
	3NO + 1NC			ISSPCU1967	
	4NO			ISSPCU1968	
Mechanical Interlock Unit		HGS 9-HGS 40 # (For all contactors in Frame-1 and Frame-2)	HGS MIU	ISSPCU1972	874.00
		HGS50-HGS 100 (For all contactors in Frame-3 and Frame-4)		ISSPCU1973	2053.00
		HGS115- HGS 265		ISSPCU1974	3632.00
		HGS 300- HGS 800		ISSPCU1975	4118.00
Mechanical Latching Block (Top Mounting)	220 V AC	HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	HGS MLB	ISSPCU1976	2059.00
Electronic Timer (Top Mounting)		HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	HGS ET	ISSPCU1977	2783.00
Surge Absorber* (Surge Suppressor Type RC)	220 V - 240 V AC	HGS 9-HGS 100 (For all contactors in Frame-1 to Frame-4)	HGS SA	ISSPCU1984	1755.00

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

\*Contact to nearest branch

- For other voltages in RC type surge suppressors

- For other type of surge suppressors



## Spare Coils - HGS Contactors

(Refer Frame Sizes in Respective Contactor Table)

Suitable for	Coil Type	Voltage	Item Code	Per Unit LP (₹)
For all Frame-1 Contactors (HGS 9 to HGS 22)	AC	24 V	ISSPCU1985	541.00
		110 V	ISSPCU1987	
		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	24 V	ISSPCU1993	541.00
		110 V	ISSPCU1995	
		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	24 V	ISSPCU2001	1765.00
		110 V	ISSPCU2003	
		240 V	ISSPCU2005	
		415 V	ISSPCU2007	
		260 V-440 V	ISSPCU2136	
For all Frame-4 Contactors (HGS 75-HGS 100)	AC	24 V	ISSPCU2009	2032.00
		110 V	ISSPCU2011	
		240 V	ISSPCU2013	
		415 V	ISSPCU2015	
		260 V-440 V	ISSPCU2137	
For Frame-5 Contactors (HGS 115-HGS 150)	AC/DC Universal Coil	100 Vac-240 Vac 110 Vdc -220 Vdc	ISSPCU1979	5500.00
	AC	380 Vac-450 Vac	On Request	
For Frame-6 Contactors (HGS 185-HGS 265)	AC/DC Universal Coil	100 Vac-240 Vac 110 Vdc -220 Vdc	ISSPCU1980	7788.00
	AC	380 Vac-450 Vac	ISSPCU2312	
For Frame-7 Contactors (HGS 300-HGS 500)	AC/DC Universal Coil	100 Vac-240 Vac 110 Vdc -220 Vdc	ISSPCU1981	10127.00
	AC	380 Vac-450 Vac	ISSPCU2103	
For Frame-8 Contactors (HGS 630-HGS 800)	AC/DC Universal	110 Vac-127 Vac 100 Vdc -110 Vdc	On Request	20765.00
		200 Vac-240 Vac 200 Vdc -220 Vdc	ISSPCU1982	
	AC	380 Vac-450 Vac	ISSPCU2104	



# MPCB specially coordinated for IE2, IE3 & IE4 Motors

## MPCB Motor Protection Circuit Breaker - HGSM Series



### Push Button Version\*

#### Features:

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

\* - For Rotary type MPCB, Contact to nearest branch

Item Code	Item Description	Per Unit LP (₹)
IHHMPBA2A0	MPCB HGSM 0.1 A - 0.16 A 100 kA	2588.00
IHHMPBB2B0	MPCB HGSM 0.16 A - 0.25 A 100 kA	
IHHMPBC2D0	MPCB HGSM 0.25 A - 0.4 A 100 kA	
IHHMPBD2E0	MPCB HGSM 0.4 A - 0.63 A 100 kA	2934.00
IHHMPBE2F0	MPCB HGSM 0.63 A - 1 A 100 kA	
IHHMPBF2G0	MPCB HGSM 1 A - 1.6 A 100 kA	2957.00
IHHMPBG2R0	MPCB HGSM 1.6 A - 2.5 A 100 kA	
IHHMPBH2I0	MPCB HGSM 2.5 A - 4 A 100 kA	3063.00
IHHMPBJ2J0	MPCB HGSM 4 A - 6.3 A 100 kA	
IHHMPBK2K0	MPCB HGSM 6.3 A - 10 A 100 kA	3275.00
IHHMPBL2L0	MPCB HGSM 9 A - 14 A 15 kA	
IHHMPBN2M0	MPCB HGSM 13 A - 18 A 15 kA	4200.00
IHHMPBQ2T0	MPCB HGSM 17 A - 23 A 15 kA	
IHHMPBS2N0	MPCB HGSM 20 A - 25 A 15 kA	4418.00
IHHMPBT2P0	MPCB HGSM 24 A - 32 A 10 kA	

Item Code	Item Description	Per Unit LP (₹)
ISSPCU2406	UV Release MPCB HGSM 110VAC 50Hz	1927.00
ISSPCU2407	UV Release MPCB HGSM 240VAC 50Hz	
ISSPCU2408	UV Release MPCB HGSM 415VAC 50Hz	
ISSPCU2409	Shunt release MPCB HGSM 110VAC 50Hz	
ISSPCU2410	Shunt release MPCB HGSM 240VAC 50Hz	
ISSPCU2411	Shunt release MPCB HGSM 415VAC 50Hz	693.00
ISSPCU2412	Aux block top mount 2NO MPCB HGSM	
ISSPCU2413	Aux block top mount 1NO1NC MPCB HGSM	
ISSPCU2414	Aux block Side mount 2NO MPCB HGSM	956.00
ISSPCU2415	Aux block Side mount 1NO1NC MPCB HGSM	
ISSPCU2416	Fault alarm Aux 1NC 1NO MPCB HGSM	1392.00
ISSPCU2417	Fault alarm Aux 1NC 1NC MPCB HGSM	
ISSPCU2418	Fault alarm Aux 1NO 1NO MPCB HGSM	
ISSPCU2419	Box waterproof IP55 MPCB HGSM	1444.00
ISSPCU2420	Emergency Box waterproof IP55 MPCB HGSM	





## Thermal Over Load Relay (Auto/ Manual Reset)

### 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: 8536

Relay Frame 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	1760.00
	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	1791.00
12 A - 18 A	IHHR13CT	1966.00			



## Thermal Over Load Relay - HGST Series

Relay Frame size	Relay Range (A)	Suitable for Contactor Frame size	Type	Item Code	Per Unit LP (₹)
2	7 A - 10.0 A	HGS 25 HGS 32 HGS 40	HGST 40	IHHR23CQ	1966.00
	8 A - 12.0 A			IHHR23CR	
	12 A - 18 A			IHHR23CT	
	15 A - 22 A			IHHR23CU	
	17 A - 25 A			IHHR23CV	
	22 A - 32 A			IHHR23CW	
	28 A - 40 A			IHHR23CX	
3	7 A - 10.0 A	HGS 50 HGS 65	HGST 65	IHHR33CQ	3446.00
	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	
	34 A - 50 A			IHHR33CY	
	45 A - 65 A			IHHR33C1	
4	17 A - 25 A	HGS 75 HGS 85 HGS 100	HGST 100	IHHR43CV	4000.00
	22 A - 32 A			IHHR43CW	
	28 A - 40 A			IHHR43CX	
	34 A - 50 A			IHHR43CY	
	45 A - 65 A			IHHR43C1	
	52 A - 75 A			IHHR43C2	
	59 A - 85 A			IHHR43C3	
	70 A - 100 A			IHHR43C4	
5	48 A - 80 A	HGS 115 HGS 130 HGS 150	HGST 150	IHHR53C5	8444.00
	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	9074.00
	69 A - 115 A			IHHR63C6	
	78 A - 130 A			IHHR63C7	
	90 A - 150 A			IHHR63C8	
	111 A - 185 A			IHHR63C9	
	135 A - 225 A			IHHR63C11	
	159 A - 265 A			IHHR63C12	
7	90 A - 150 A	HGS 300 HGS 400 HGS 500	HGST 500	IHHR73C8	11024.00
	111 A - 185 A			IHHR73C9	
	135 A - 225 A			IHHR73C11	
	159 A - 265 A			IHHR73C12	
	180 A - 300 A			IHHR73C13	
	240 A - 400 A			IHHR73C14	
	300 A - 500 A			IHHR73C15	
8	378 A - 630 A	HGS 630 HGS 800	HGST 800	IHHR83C16	30193.00
	480 A - 800 A			IHHR83C17	

