



# INDUSTRIAL PLUGS & SOCKETS SS - TYPE



**BCH ELECTRIC LIMITED**  
*we care for you*



# Industrial Plugs & Sockets

## OFF-LOAD Decontactor - SS Type

BCH Industrial Plugs and Sockets (off-load Decontactors) combine simplicity, convenience and reliability. Their unique design makes use of the concept of spring-loaded butt-type contacts, instead of the conventional concept of pin-and-sleeve type.

BIL Industrial Plugs and Sockets are available in several contact combinations both for power as well as control circuits. They have advantages like positive, bayonet-type fitting between plugs and sockets, shrouding of live parts from accidental human touch, reliable earthing through butt-type silver-tipped contact. They are suitable for outdoor applications and for use under conditions of high vibrations. Plugs and sockets up to 5 pins for power circuit are rated for 30A at 500V and those meant for use on control circuits, up to 12 pins, have ratings of 12A at 500V.

## Butt-type silver contacts

- Pre-determined optimum contact pressure for high conductivity.
- Low contact-resistance-low temperature-rise.
- Infinite plug interchangeability with consistent contact pressure i.e. no difference in contact-pressure with new or old plugs.
- Non-deteriorating contact carrying surface.
- Self aligning, self wiping contacts i.e. contacts wipe and align when the plug has been fully inserted.
- Reliability of silver contacts unaffected in high temperature conditions.

## Interchangeability of interiors

The interiors of Plugs and sockets are interchangeable and are retained by cir - clips. The easy interchangeability enables many different arrangements to be made up from a minimum stock of components.

## Earthing

The earth contact is always in the central position thus eliminating the possibility of inadvertently connecting a live contact to earth. It is also impossible to lodge or wedge bare conductors in the socket to obtain a supply.

## Socket cover

The socket is fitted with a strong spring closed gasketed cover making the unit suitable for outdoor use.

## Self Locking design

The plug cannot be pulled out of the socket by its cable or fall out on its own due to positive bayonet type fitting.

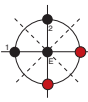

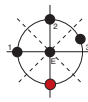
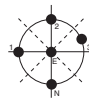
## Electrical and Mechanical Ratings

PARAMETER	PLUGS AND SOCKETS FOR USE ON POWER CIRCUITS	PLUGS AND SOCKETS FOR USE ON CONTROL CIRCUITS
Contact options	2P + E 1P + E + N 3P + E 3P + E + N	Upto 12 contacts
Rated voltage	500V AC and DC	500V AC and DC
Thermal current (I <sub>th</sub> )	30A (Copper cable) 20A (Alum. Cable)	12A (Copper cable) 8A (Alum. Cable)
Contact resistance	Less than 1m ohm	Less than 1m ohm
Contact pressure	1.2 kg. (min.) 1.35 kg. (max.)	1 kg. (min.) 1.15 kg. (max.)
Mechanical and electrical life	10,000 operations	10,000 operations
Conduit entry	3/4" dia	3/4" dia
Terminal capacity	6mm <sup>2</sup>	1.5mm <sup>2</sup>
Terminations	Spring loaded	Solder type

### Approvals

- Electronics Components Standardisation Organisation, Ministry of Defence, Bangalore, as per JSS 508 19.
- Nirikshan Niyantanalaya (Vahan), Ahmednagar, for application on Vehicles and Trailors
- Central Machine Tools Institute, Bangalore, as per IEC: 309A

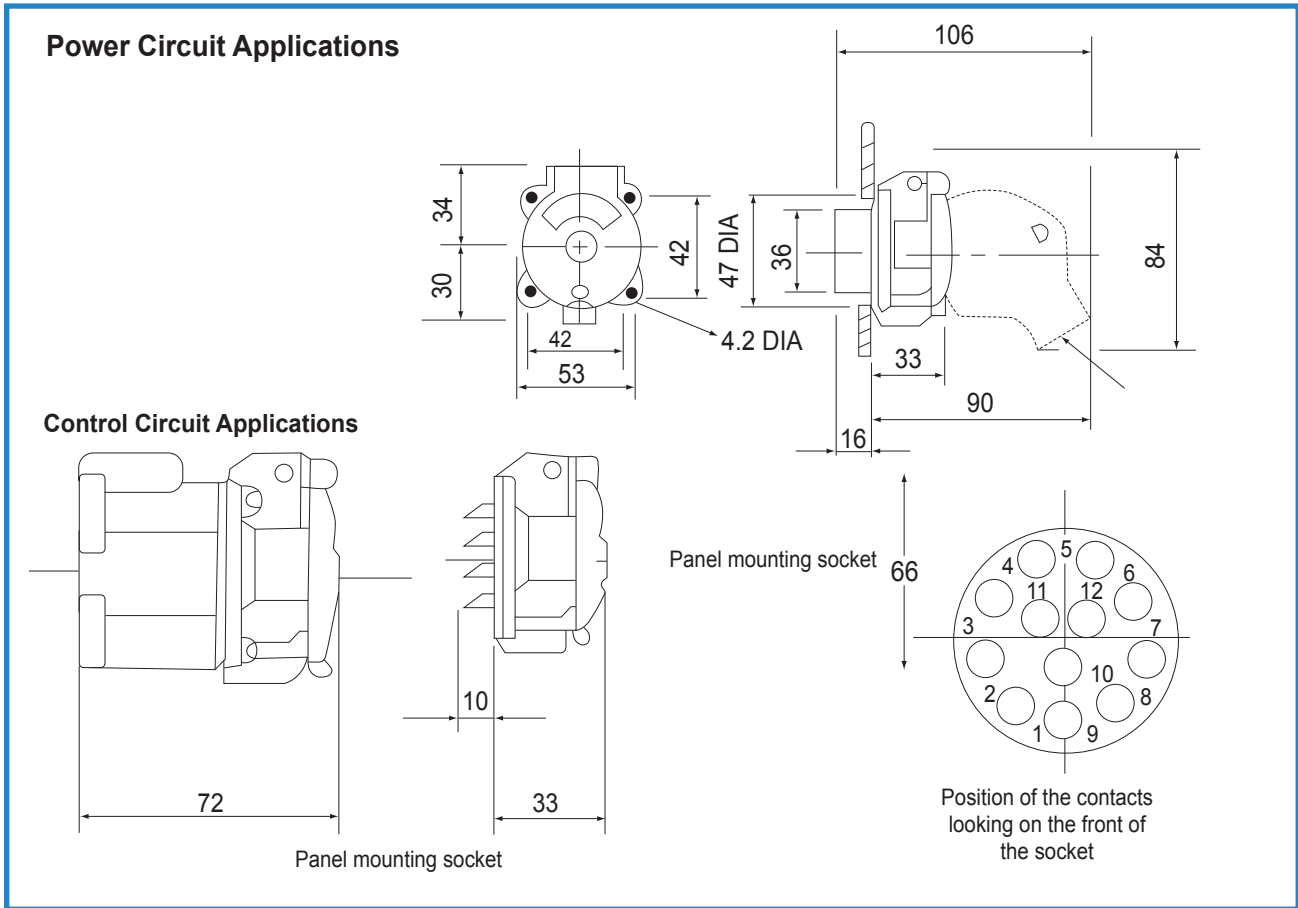
### Selection chart

POWER CIRCUIT APPLICATIONS	CATALOGUE CODE			
Contact options	2P+E*	1P+N+E	3P+E	3P+N+E
Position contacts				
Panel mounting socket		2415B	2413B	2417B
Plug with inclined handle		215B	213B	217B

POWER CIRCUIT APPLICATIONS	CATALOGUE CODE	
No. of contacts	Panel mounting socket	Plug with inclined handle
12	2499/12	299/12B

\* Available on request

# Dimensions(mm)



## BCH ELECTRIC LIMITED

Visit us at : [www.bchindia.com](http://www.bchindia.com)

**Corporate Office :** 1105, New Delhi House, 27, Barakhamba Road, New Delhi - 110 001 Tel. : 91-11-23316029/3610/6539 Fax : 91-11-23715249 E-Mail : [marketing@bchindia.com](mailto:marketing@bchindia.com)  
**Registered Office :** Block 1E, 216, Acharya Jagadish Chandra Bose Road, Kolkata - 700 017  
**Works :** 20/4, Mathura Road, Faridabad - 121 006 (Haryana) Tel. : 0129-4063000/4061026 Fax : 0129-2304024

### Sales Offices :

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93, City Centre,  
Near Swastik Char Rasta,  
C.G.Road, Navrangpura,  
Ahmedabad - 380 009  
Tel.: (079) 26565719, 26565728  
Mobile: 98256-07601  
Fax : (079) 26561210  
E-mail: [ahmedabad@bchindia.com](mailto:ahmedabad@bchindia.com)

#### Bangalore

B.M.H. Complex, IInd Floor,  
No. 22, Kengal Hanumanthiah Road,  
Bangalore - 560 027  
Tel. : 080-22273478, 41144878, 41144879  
Mobile : 98455-46105  
Fax : 080-22236759  
E-mail : [bangalore@bchindia.com](mailto:bangalore@bchindia.com)

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Plot No. 4708/1,  
Gajapati Nagar,  
Bhubaneswar - 750 005  
Tel. : 0674-2301767  
Mobile : 98610-81767  
E-mail: [bhubaneswar@bchindia.com](mailto:bhubaneswar@bchindia.com)

#### Chandigarh

SCO 121-22-23, I<sup>st</sup> Floor,  
Sector 34-A, Chandigarh - 160 022  
Tel. : 0172-5078957  
Mobile : 98554-87089  
E-mail : [chandigarh@bchindia.com](mailto:chandigarh@bchindia.com)

#### Chennai

LVR CENTRE, 3rd Floor  
No. 7, Seshadri Road,  
Alwarpet, Chennai - 600 018  
Tel. : 044-24997042, 24997002  
Mobile : 98402-85500  
Fax : 044-24996853  
E-mail : [chennai@bchindia.com](mailto:chennai@bchindia.com)

#### Cochin

2<sup>nd</sup> Floor, 32/1495  
B-1, Chakos Chambers,  
By Pass Junction,  
Cochin - 682 025  
Tel.: 0484-6593697  
Mobile : 98802-90473  
E-mail: [cochin@bchindia.com](mailto:cochin@bchindia.com)

#### Coimbatore

87, Dr. Nanjappa Road,  
Coimbatore - 641 018  
Tel. : 0422-2305311  
Mobile : 98430-53555  
Fax : 0422-2302599  
E-mail : [coimbatore@bchindia.com](mailto:coimbatore@bchindia.com)

#### Faridabad

110 & 117, Om Shubham Tower  
Neelam Bata Road, N.I.T,  
Faridabad - 121 001 (Haryana)  
Mobile : 98180-10700  
E-mail : [faridabad@bchindia.com](mailto:faridabad@bchindia.com)

#### Gurgaon

SF-203, Navkriti Arcade  
Block-A, Sushant Lok, Phase-I  
Gurgaon - 122 001 (Haryana)  
Mobile : 99101-55464  
E-mail : [gurgaon@bchindia.com](mailto:gurgaon@bchindia.com)

#### Guwahati

2<sup>nd</sup> Floor, Maya Ville,  
Borthakur Mill Road, Ulubari  
Guwahati - 781 0007  
Mobile : 09435407024  
E-mail : [guwahati@bchindia.com](mailto:guwahati@bchindia.com)

#### Hospet

940C, Third Cross  
Third Ward, Patel Nagar  
Station Road,  
Hospet-583201  
Tel: 09845930782  
Email: [hospet@bchindia.com](mailto:hospet@bchindia.com)

#### Hubli

A-5, Navaniketan Apartments  
Ashok Nagar  
Hubli ( Karnataka)  
Tel. : 0836-3090472  
Mobile No. 98802-90471  
Email: [hubli@bchindia.com](mailto:hubli@bchindia.com)

#### Hyderabad

210, Prajap Corporate House,  
1-10-63&64, Chikoti Garden,  
Begumpet, Hyderabad - 500 016  
Tel. : 040-66206263/27763325  
Mobile : 98493-99240  
Fax : 040-66207273  
E-mail : [hyderabad@bchindia.com](mailto:hyderabad@bchindia.com)

#### Indore

330-331, Indraprastha Tower,  
6, MG Road, Indore - 452 001  
Tel. : 0731-2510011  
Mobile : 98266-66091  
E-mail : [indore@bchindia.com](mailto:indore@bchindia.com)

#### Jaipur

25, Hathroi, Gopalbari,  
Jaipur - 302 001  
Tel. : 0141-5104521  
Mobile : 98290-10813  
Fax : 0141-2363521  
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#### Jamshedpur

3<sup>rd</sup> Floor, Aastha Trade Centre,  
'Q' Road, Bistupur,  
Jamshedpur - 831001  
Tel. : 0657-6573507  
Mobile : 98351-82109  
Fax : 0657-2420439  
E-mail : [jamshedpur@bchindia.com](mailto:jamshedpur@bchindia.com)

#### Kolkata

East India House,  
3<sup>rd</sup> Floor, 20-B, Abdul Hamid  
Street, Kolkata - 700 069  
Tel. : 033-22138508 / 10  
Mobile : 98303-36101  
Fax : 033-22138512  
E-mail : [kolkata@bchindia.com](mailto:kolkata@bchindia.com)

#### Lucknow

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14, Station Road, Lucknow  
Tel. : 0522-402597/402597/402597  
Mobile : 98399-12304  
E-mail : [lucknow@bchindia.com](mailto:lucknow@bchindia.com)

#### Ludhiana

S.C.O - 18, IInd Floor,  
Feroze Gandhi Market,  
Ludhiana - 140 001  
Tel. : 0161-5021807  
Mobile : 98765-87088  
Fax : 0161-2771807  
E-mail : [ludhiana@bchindia.com](mailto:ludhiana@bchindia.com)

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E 168/69, Santanam Road  
TVS Nagar  
Madurai-625003  
Surat - 395 002  
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Email: [maduri@bchindia.com](mailto:maduri@bchindia.com)

#### Mumbai

A-151, Mittal Tower,  
Nariman Point,  
Mumbai - 400 021  
Tel. : 022-22822947/22826039  
Mobile : 98923-00706  
Fax : 022-22822858  
E-mail : [mumbai@bchindia.com](mailto:mumbai@bchindia.com)

#### Nagpur

Block No. 238-B,  
Opp. Dharamdas Darbar,  
Nr. Choudhary Chowk, Jaripatka,  
Nagpur, Maharashtra - 440 014  
Tel. : 99701-80877  
Mobile : 98351-82109  
E-mail : [nagpur@bchindia.com](mailto:nagpur@bchindia.com)

#### New Delhi

801, Akash Deep,  
26A, Barakhamba Road,  
New Delhi - 110 001  
Tel. : 011-23313878  
Mobile : 98102-12502  
Fax : 011-23739230  
E-mail : [delhi@bchindia.com](mailto:delhi@bchindia.com)

#### Pune

8, Sarosh Bhawan,  
16-B/1, Dr. Ambedkar Road,  
Pune - 411 001  
Tel. : 020-26052590  
Mobile : 98220-11086  
Fax : 020-26135224  
E-mail : [pune@bchindia.com](mailto:pune@bchindia.com)

#### Raipur

2<sup>nd</sup> Floor,  
Building No- B- 234,  
Indira Gandhi  
Vyavasayik Parisar,  
Pandri, Raipur - 492 004  
Tel. : 0771-4020213  
Mobile : 98266-66092  
E-mail : [raipur@bchindia.com](mailto:raipur@bchindia.com)

#### Surat

601/A, 21st Century Business Centre  
Ring Road  
Surat - 395 002  
Mobile : 91 9825607617  
E-mail : [surat@bchindia.com](mailto:surat@bchindia.com)

#### Trichy

Kingston Park,  
Second Floor,  
19/1, Puttur High Road,  
Ramalinga Nagar,  
Trichy - 620 003.  
Mobile: 99406 76502  
Email : [trichy@bchindia.com](mailto:trichy@bchindia.com)

#### Vadodara

101, Toran Complex,  
Vikas Nagar  
Old Padra Road  
Vadodara - 390 020.  
Tel. : 0265-6548444  
E-mail : [baroda@bchindia.com](mailto:baroda@bchindia.com)

#### Vishakapatnam

Venu Vaibhavam, 2<sup>nd</sup> Floor,  
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Layout, Pedda Waltair,  
Vishakapatnam - 530 017  
Mobile : 98493-99238  
E-mail : [vizag@bchindia.com](mailto:vizag@bchindia.com)

#### Western UP & Uttarakhand

8, Cooperative Industrial Estate  
Patel Nagar  
Dehradun : 248001  
Uttarakhand  
Mobile : 9760005793  
E-mail : [dehradun@bchindia.com](mailto:dehradun@bchindia.com)

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