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DC Load Break Switches

LB Series Load Break Switches comply with the latest specifications for modern low voltage devices. Outstanding electrical characteristics of LB Switches with compact design, contribute to space saving installation and operational convenience. Basic construction and design of the switch makes it compact, safe and highly reliable. The switch uses polyamide glass filled material, having excellent track resistance (CTI) for Insulation to prevent flashover between phases in the most severe conditions. The special contact design and configuration makes the switch highly reliable to withstand high short circuit currents.

Applications

- Photovoltaic Isolators
- Isolator
- Main Switch
- Emergency ON / OFF
- Inverter Applications
- AC / DC Changeover in Solar Pumps

Features

- Compact and reliable
- Finger Protection
- Easy Installation
- Wiping Contacts
- Excellent switching and high short circuit capacity
- Optional Extended Terminals
- DIN rail mounting Suitable for DB boards
- Various Panel mounting Options Front mounting, Rear mounting
 Enclosure mounting





IEC - Technical Specification

Turan	Configuration	IEC Rati	ng 60947-3 -	DC21B	UL Rating 508i		
Туре	Comiguration	500V	700V	1000V	500V	700V	1000V
	1 2 2 poles in series	20	16	9	16	16	10
	2 poles in series + 2 poles in series	-	-	-	16	16	16
DCLB 216	2 poles in series + 2 parallel	29	16	9	32	16	10
	1 2 3 4 4 poles in series	20	20	20	16	16	16
	$\frac{1}{5} \frac{2}{6} \frac{3}{7} \frac{4}{8}$ 4 poles in series + 2 parallel	29	29	29	29	-	
	1 2 2 poles in series	25	23	11	25	23	12
	2 poles in series + 2 poles in series	-	-	-	25	25	25
DCLB 225	2 poles in series + 2 parallel	45	23	11	40	23	12
	1 2 3 4 4 poles in series	25	25	25	25	25	25
	$\frac{1}{5} \frac{2}{6} \frac{3}{7} \frac{4}{8}$ 4 poles in series + 2 parallel	45	45	45	45	-	
	1 / 2 / 2 2 poles in series	40	32	25	32	27	16
	2 poles in series + 2 poles in series	-	-	-	32	32	32
DCLB 232	2 poles in series 4 + 2 parallel	63	40	25	63	27	16
	1 2 3 4 4 poles in series	40	40	40	36	36	36
	$\frac{1}{5} \frac{2}{6} \frac{3}{7} \frac{4}{8}$ 4 poles in series + 2 parallel	63	63	63	58	-	-

TERMINAL CROSS SECTION		Measure	DCLB220	DCLB225	DCLB232	DCLB240
Single / Multi Strand wire		mm²	2.5	2.5	2.5	2.5
		mm²	16	16	16	16
Fine Strand Wire with Sleeve		mm²	0.75	0.75	0.75	0.75
		mm ²	10	10	10	10
American Wire Gauge	-	AWG	-	10	6	-
Recommended Tightening Torque for terminals	-	Nm	1.7	1.7	2	2



Switching Configurations

Туре	2 pole	4 pole (2 + 2 pole)	4 pole	4 pole (with jumpers)	4 pole (with jumpers, both input & output at bottom)
DC LB216	30209	32409	30409	30449	30429
DC LB225	30209	32409	30409	30449	30429
DC LB232	30209	32409	30409	30449	30429
Contacts Wiring Diagram	$\bigcup_{2}^{1} \bigcup_{4}^{3}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 3 5 7 -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Switching Example	=	=		+ =	

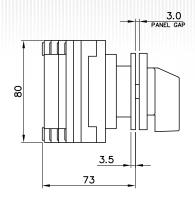
Туре	8-poles
DC LB216	30809
DC LB225	30809
DC LB232	30809
Contacts Wiring Diagram Switching Example	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$



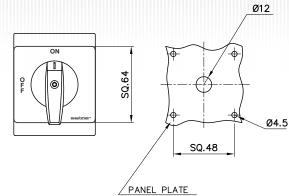
FRONT MOUNTINGS

B13







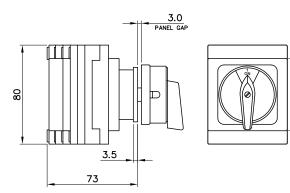


• Degree of Protection : Front IP55

SQ.64

B33





- Degree of Protection : Front IP65 Max 3 Padlocks
- 4 hole panel mounting

SQ.36

Ø12

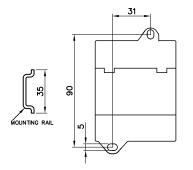
Ø4.5

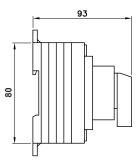
• Round padlocking device to prevent being switched ON by Unauthorized personnel

REAR MOUNTINGS

B23DB





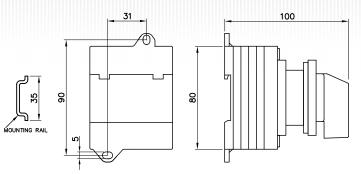


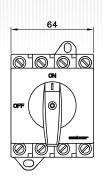
- Degree of Protection : Front IP30 2 Hole rear mounting.
- Alternately snap mounting on DIN EN50022 rail (35mm).
- DIN Rail mounting with 45mm panel suitable for DB boards.



B23





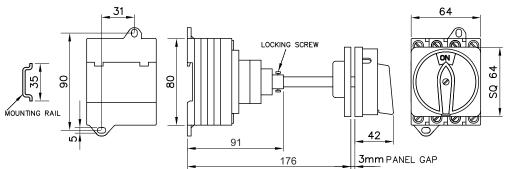


- Degree of Protection: Front IP30 2 Hole rear mounting.
- Alternately snap mounting on DIN EN50022 rail (35mm).

DOOR INTERLOCK

MB34



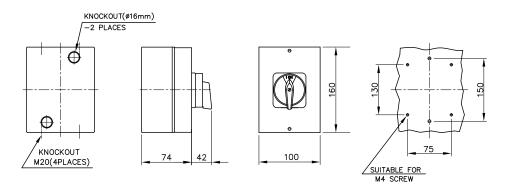


- Degree of Protection: Front IP65 Switch with round padlocking device to prevent the Switch from being made ON by unauthorised personnel 2 hole rear mounting or snap mounting on DIN EN50022 rail (35mm) and operateable from the front (door) coupled with door mechanism Door interlock (door opens only in OFF position)
- Max.3 padlocks

ENCLOSURES

B31SMX





- Degree of Protection : Front IP65 Switch rear mounted for easy connection
- Enclosure colour: Dark grey base and light grey cover.
- Switch mounted in ABS / polycarbonate (optional) enclosure.
- Round padlocking device (Max.3 padlocks) to prevent the Switch from being made ON by unauthorised personnel Interlock Feature (Cover opens only in OFF position)

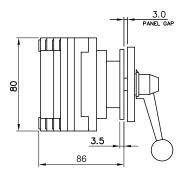


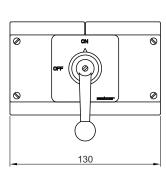
FRONT MOUNTINGS

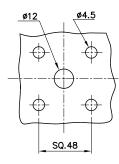
B13



- Degree of Protection: Front IP55
- 4 hole front panel mounting







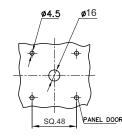
DOOR INTERLOCK

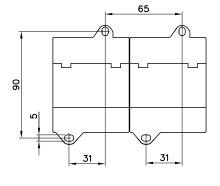
MB34

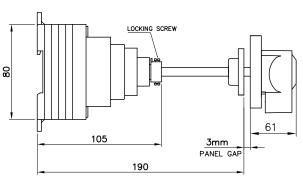


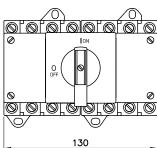
Degree of Protection: Front IP65
 Switch with padlocking device to prevent the Switch from being made ON by unauthorised personnel
 4 hole rear mounting or snap mounting on DIN EN50022 rail (35mm) and operateable from the front (door) coupled with door mechanism
 Door interlock (door opens only in OFF position)
 Max.2 padlocks









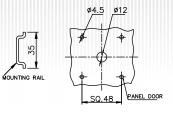


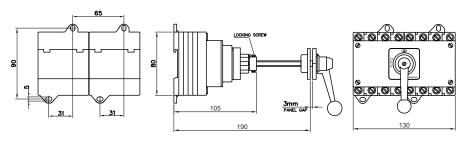


MB42



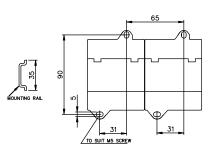
- Degree of Protection : Front Ip55
- 4 hole rear mounting or snap mounting on DIN EN50022 rail (35mm) and operateable from the front (door) coupled with door mechanism
- Door interlock (door opens only in OFF position)

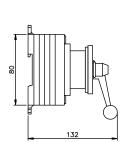


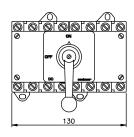


B2'







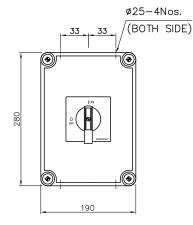


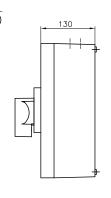
 \star 4 Hole rear mounting or Snap mounting on DIN EN50022 rail (35mm)

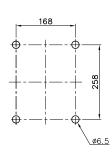
ENCLOSURES

B31L





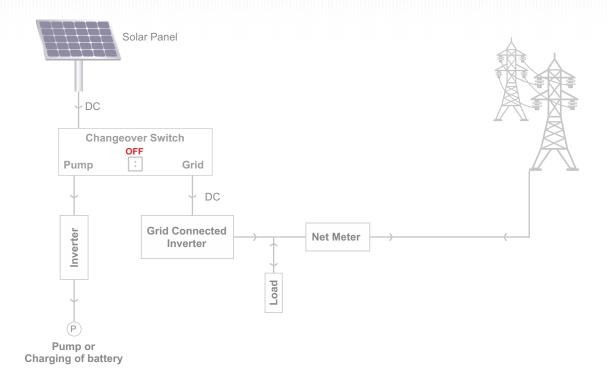




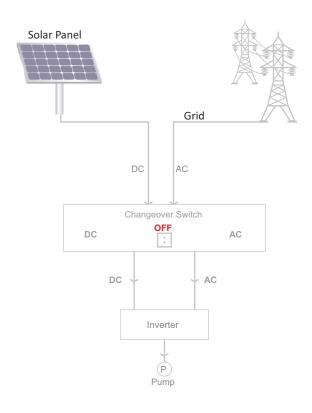
- Degree of Protection: IP65
 Switch rear mounted for easy connection
 padlocking device (Max.2 padlocks) to prevent the Switch from being made ON by unauthorised personnel
 Interlock Feature (Cover opens only in OFF position)
- Enclosure colour : Grey Switch mounted in ABS / polycarbonate (optional) enclosure



Changeover Application - I



Changeover Application - II



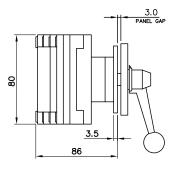


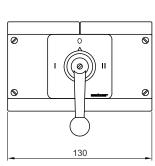
CHANGEOVER SWITCHING PROGRAME

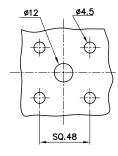
Ш.						шш			шш
	4 Pole Changeover								
		\		\	_/_	\			
	I	Χ	Χ	Х	Χ				
	0								
	II					Χ	Χ	Χ	Χ

B13









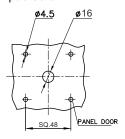
- Degree of Protection : Front IP55
- 4 hole front panel mounting

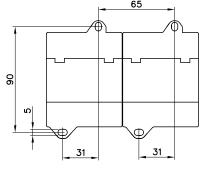
MB34

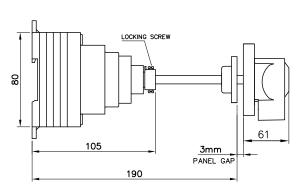


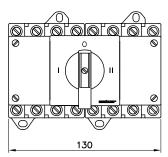
- Degree of Protection : Front IP55 Switch with padlocking device to prevent the Switch from being made ON by unauthorised personnel
- 4 hole rear mounting or snap mounting on DIN EN50022 rail (35mm)
 and operable from the front (door) coupled with door mechanism
 Door interlock (door opens only in OFF position)
 Max.2 padlocks





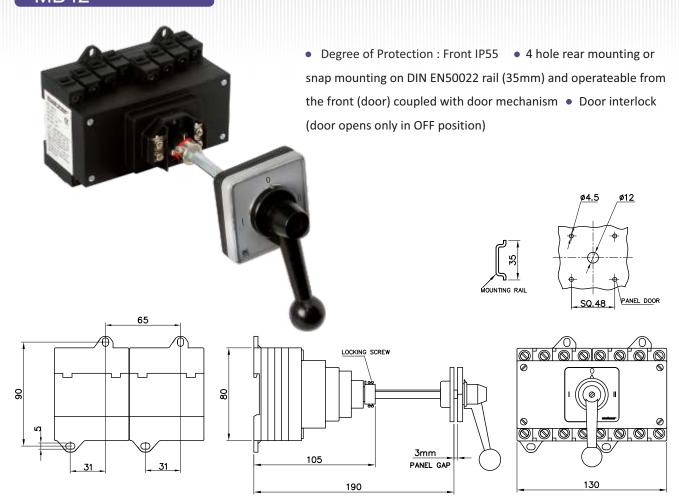






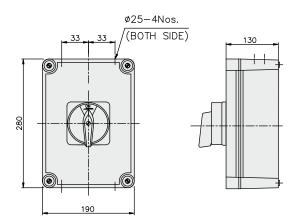


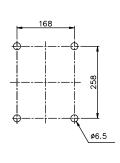
MB42



B31L





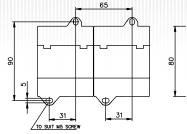


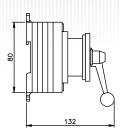
- Degree of Protection: IP65
 Switch rear mounted for easy connection
 padlocking device (Max.2 padlocks) to prevent the Switch from being made ON by unauthorised personnel
 Interlock Feature (Cover opens only in OFF position)
- Enclosure colour : Grey
 Switch mounted in ABS / polycarbonate (optional) enclosure

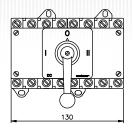


B21









 $\boldsymbol{*}$ 4 Hole rear mounting or Snap mounting on DIN EN50022 rail (35mm)

INSULATED JUMPER

Туре	Pack	Weight
DC LBJ - LH	100	6.8g/pc
DC LBJ - RH	100	6.8g/pc

PRODUCT CODING

DCLB	XXX Frame Model	XXX Programme code	XXX Mounting Options	XXX Knob Options	XXX Colours
DC Load Break Switch (2 & 4 pole)	220/225/ 232/240	* 30209 / 32409 / 30409 / 30439 / 30429	B13/ B33 / B23 / B23DB / MB34 / B31SMX	RD - Round Knob FL - Flag Knob	GB - Grey Black
DC Load Break Switch (8 Pole)	220/225/ 232/240	* 30809 / 34829	B13 / MB34 / MB42 / B31L	BG - Ball handle LH - Leech handle	GB - Grey Black
DC Load Break Switch (Changeover)	220/225/ 232/240	30154	B13 / MB34 / MB42 / B31L	BG - Ball handle LH - Leech handle	GB - Grey Black

* Ordering Code 3 0 4 2 9 Fixed Digit Poles in Parallel Total Poles Poles in Series Fixed Digit

Example

DCLB 232 30429 MB34 RD GB

Stands for DCLB Switch, 232 frame , 4 pole Switching Configuration , with 4 Hole Rear Mounting , Grey Front Plate, Black Round Knob



Switch on to the Best...



Salzer Electronics Limited, Unit-II

Chinnamaddampalayam, Bilichi Post, Coimbatore 641019. INDIA

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