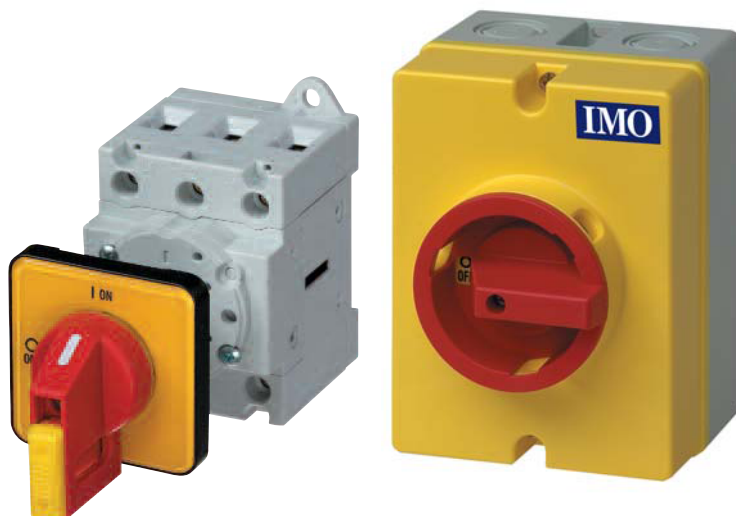


Isolators 69 Series

IMO



- 3 and 4 pole
- On load 20A - 100A
- Red/yellow or black handles
- 3 padlock positions
- IP65
- Enclosed, DIN rail, base or panel mount versions
- Lightweight ext shafts 100-400mm
- Side mounted auxiliary contacts
- UL approval



Options and ordering codes

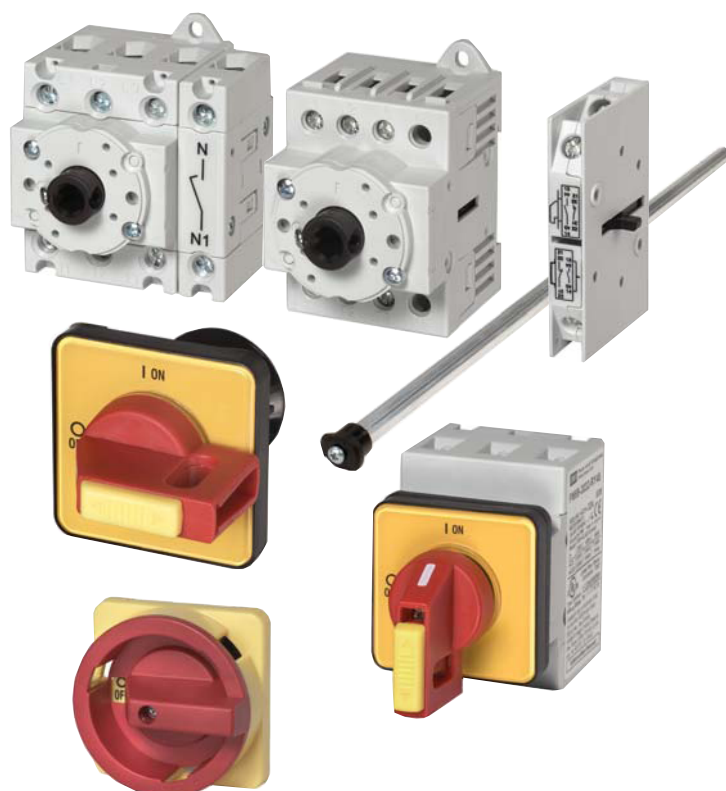
	PM69	-	30
IP65 enclosed	PE69		3 pole 30
Base mount door interlock	LB69		4 pole 40
Front panel mount	PM69		6 pole 60
Direct handle base mounted	DM69		8 pole 80

	20
Rating @ 400V	
AC21/Amps	AC23/kW
20	5.5
25	7.5
32	11
40	15
63	18.5
80	22
100	37

	RY64
RY48	Direct red/yellow 48mm handle
RY64	Direct red/yellow 64mm handle
B48	Direct black 48mm handle
B64	Direct black 64mm handle
	Enclosed/door interlocked vertical

Accessories

Description	Part ref
Red/yellow handle 64 x 64mm	H69-0001
Black handle 64 x 64mm	H69-0002
Red/yellow handle 48 x 48mm	H69-0003
Black handle 48 x 48mm	H69-0004
Door handle mounting tool	J7049
Extension shaft – 100mm	E69-0001
Extension shaft – 200mm	E69-0002
Extension shaft – 300mm	E69-0003
Extension shaft – 400mm	E69-0004
Auxiliary contacts 1 n/o + 1 n/c	A69-0001
Auxiliary contacts 2 n/o	A69-0002
Solid neutral block	SN69-0001
Add on neutral switching pole 20-40A	SP69-0001
Auxiliary contacts 1 n/o + 1 n/c	A69-0001
Auxiliary contacts 2 n/o only	A69-0002



Technical Data

Data according to IEC 947-3, IEC 947-5-1, VDE 0660, EN 60947-3, EN 60947-5-1

Type			..69..20	..69..25	..69..32	..69..40	..69..63	..69..80	..69..100
Main contacts									
Rated thermal current I _{th} open		A	20	25	32	40	63	80	100
Rated thermal current I _{th} enclosed		A	20	25	32	40	63	80	100
Rated insulation voltage U _i ¹⁾		V	690	690	690	690	690	690	1000 ⁵⁾
Rated operational current I _e AC21A		A	20	25	32	40	63	80	100
Making capacity I _{eff} 3x220-440V		A	160	190	220	300	370	440	725
Breaking capacity 3x380-440V 3x660-690V		A	160	180	200	250	330	380	580
		A	160	180	200	250	330	380	580
		A	80	110	140	170	190	220	330
Disconnection property performed up to			V	690	690	690	690	690	1000
Motor Switch AC3 3x400V		A	12	16	23	30	37	37	60
Motor Switch AC3 3x220-240V		kW	3	4	5.5	7.5	11	11	18,5
Direct switching of single motors 3x380-440V 3x660-690V		kW	5.5	7.5	11	15	18,5	18,5	30
		kW	5.5	7.5	11	15	18,5	18,5	22
Main Switch AC23 3x400V		A	16	20	25	32	45	45	72
Motor Switch, AC23A 3x220-240V		kW	4	5.5	7.5	9	15	15	22
Main Switch, AC23B 3x380-440V		kW	7.5	10	12.5	16	22	22	37
Safety Switch 3x660-690V		kW	5.5	7.5	11	15	18,5	18,5	30
Rated conditional short-circuit current		kA _{eff}	10	10	10	10	10	10	10
Max. fuse size gL (gG)		A	25	35	40	50	63	80	100
Mechanical life		x10 ³	200	200	200	200	100	100	100
Rated short-time withstand current (1 sec. current)		A	250	300	400	500	600	850	1200
Maximum ambient temperature									
Operation Open enclosed storage			-40°C to +60°C						
			-40°C to +40°C						
			-50°C to +90°C						
Cable cross sections									
solid or standard	mm ²		0,5 - 10				1 - 25		4 - 50
	AWG		20 - 8 (10)				16 - 4 (10)		10 - 0 (10)
flexible	mm ²		0,5 - 6				4 - 16		10 - 35
	AWG		20 - 10				16 - 6		8 - 2
flexible (+ multicore cable end)	mm ²		0,5 - 6				0,75 - 16		6 - 35
	AWG		20 - 10				16 - 6		8 - 2
Size of terminal screw			M3,5				M5		M6
Tightening torque		Nm	0,8 - 1,7				2 - 4		3,5 - 4,5
Auxiliary contacts									
Rated insulation voltage U _i ¹⁾		V	690				690		690
Rated thermal current I _{th} , I _{the}		A	10				10		10
Switching capacity AC15 220-240V		A	2,5				2,5		2,5
	AC15 380-440V	A	1,5				1,5		1,5
Rated conditional short-circuit current		kA _{eff}	3				3		3
Max. short circuit protection gL (gG)		A	10				10		10
Cable cross sections									
Solid or standard	mm ²		0,75 - 2,5				0,75 - 2,5		0,75 - 2,5
	AWG		14 - 12				14 - 12		14 - 12
flexible (+ multicore cable end)	mm ²		0,75 - 2,5 (1,5)				0,75 - 2,5 (1,5)		0,75 - 2,5 (1,5)
	AWG		18 - 14				18 - 14		18 - 14

Data according to UL and cUL

Type		..69..20	..69..25	..69..32	..69..40	..69..63	..69..80	..69..100
Rated voltage	V	600	600	600	600	600	600	600
Ampere-Rating "General use"	A	20	25	32	40	63	80	100
DOL-Rating 3-phase 110-120V	HP	1	1,5	2	2	3	5	10
	HP	3	5	5	5	10	10	25
	HP	7,5	10	10	10	20	20	50
	HP	10	10	15	15	25	25	60
DOL-Rating 1-Phase 110-120V	HP	1	1	1	1	2	2	5
	HP	1	2	2	2	3	3	10
	HP	2	2	3	3	5	5	15
	HP	2	2	3	3	5	5	15
Fuse size (RK5) Manual Motor Controller	A	40	50	50	70	90	110	125
5kA / 600V Motor Disconnect	A	40	50	50	50	70	70	125
Tightening torque	Nm	1,2 - 2,3	1,2 - 2,3	1,2 - 2,3	1,2 - 2,3	2,8 - 4	2,8 - 4	1,7 - 4,5
	lb.inch	11 - 20	11 - 20	11 - 20	11 - 20	24 - 35	24 - 35	15 - 40

¹⁾ Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry): Uimp = 6kV. Data for other conditions on request

Dimensions (mm)

Base mount door interlock LB69..

ON-OFF Switches 3-pole, 4-pole

$L = X - 40 \pm 3$ for LB69..20-80

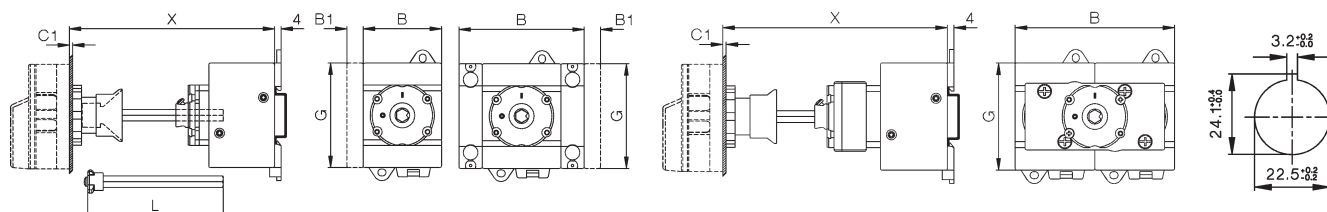
$L = X - 44 \pm 3$ for LB69..100

6-pole
for LB69..20-40
 $L = X - 40 \pm 3$

ON-OFF Switches 6-pole, 8-pole

$L = X - 60 \pm 3$

Mounting
holes



	3-pole		4-pole	6-pole	8-pole	aux. contact	4.Pole N									
Type	A	B	B	B	B	B1	B2	C1	D1	D2	D3	E	G	K	K1	J
LB69..20-40	64	48	48	77	97	10	14,5	1-5	9	5	M4	48	64	25	48	70
LB69..63-80	64	48	62,5	97	126	10	14,5	1-5	9	5	M4	48	64	25	48	70
LB69..100	64	78	78	-	-	10	-	1-5	9	5	ME	48	85	38	-	90

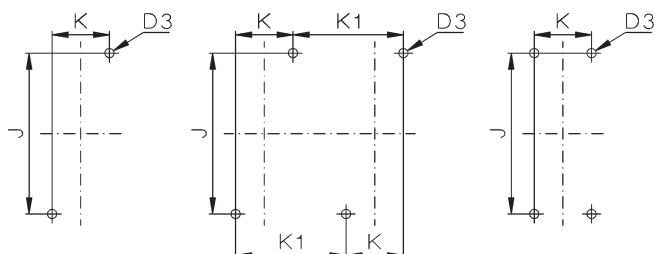
Base mount door interlock LB69..

ON-OFF Switches LB69..20-80

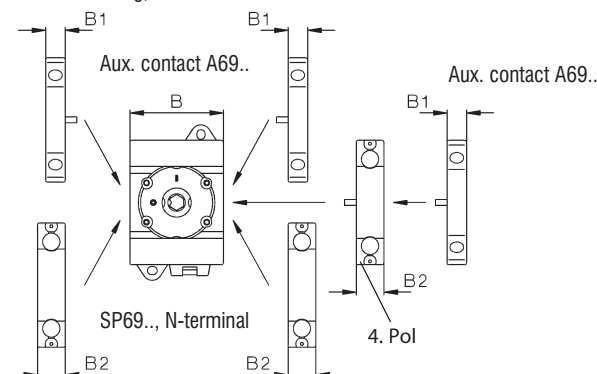
3-pole, 4-pole
6-pole LB69..20-40

6-pole, 8-pole

LB69..100
3-pole, 4-pole



Mounting of Accessories LB69..20-80
Base mounting, for distribution boards



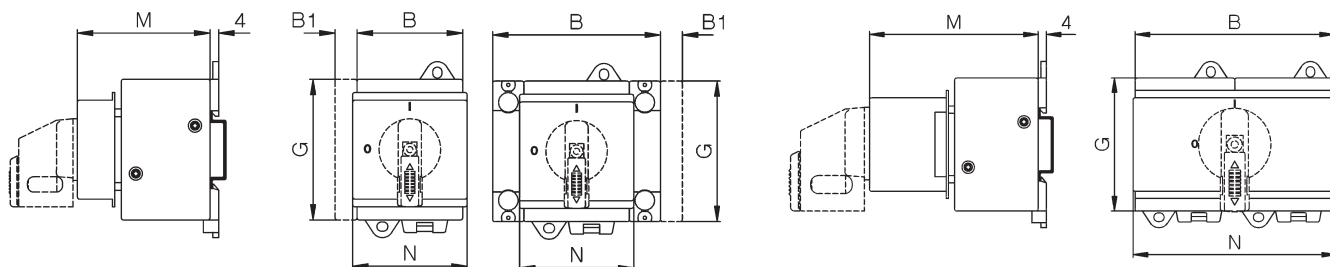
Main Switches, Switches Disconnectors DM69..

Direct handle base mount DM69..

ON-OFF Switches 3-pole, 4-pole

ON-OFF Switches 6-pole
for DM69..20-40

ON-OFF Switches 6-pole, 8-pole

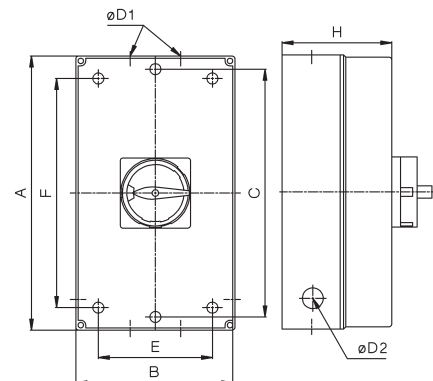


Type	padlock device	3-pole	4-pole	6-pole	8-pole	aux. contact	4.Pole N	4.Pole N	3-pole 4-pole	6-pole	8-pole	3-pole 4-pole	6-pole	8-pole
		B	B	B	B	B1	B2	G	M	M	M	N	N	N
DM69..20-40	B48,RY48	48	48	77	96	10	14,5	64	60	60	74	52	52	97
DM69..63-80	B48,RY48	48	62,5	96	125	10	14,5	64	60	74	74	52	97	126
DM69..100	RY48	78	78	-	-	10	-	85	60	-	-	78	-	-

Dimensions (mm)

IP65 Enclosed PE69

Type	Pole	A	B	C	D1	D2	E	F	H
PE69..20-40	3, 4	130	98	121	2x25,5/20,5	-	75	100	77
PE69..63-100	3, 4	200	120	-	40,5/32,5 + 16,5	-	95	165	86
PE69..20-40	6	200	120	-	40,5/32,5 + 16,5	-	95	165	86
PE69..20-40	8	240	160	-	40,5/32,5	-	130	228	120
PE69..63-80	6, 8	240	160	-	40,5/32,5	-	130	228	120



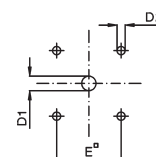
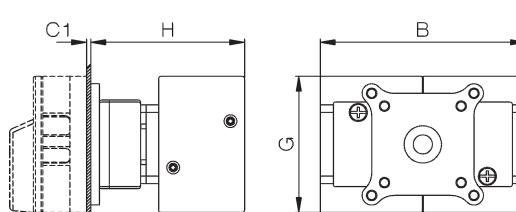
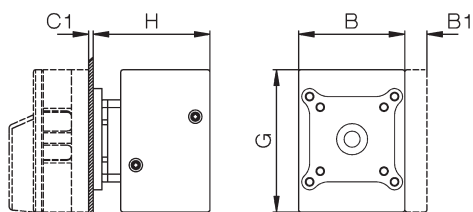
Main Switches, Switch Disconnectors PM69..

Panel mounting PM69..

ON-OFF Switches 3-pole, 4-pole

ON-OFF Switches 6-pole, 8-pole

Mounting holes



Type	ON-OFF Escutch. plate or padlock device	3-pole		4-pole	6-pole	8-pole	aux. contact	4.Pole N						3-pole 6-pole 4-pole 8-pole		
		A	B	B	B	B	B1	B2	C1	D1	D2	E	F	G	H	H
PM69..	B48, RY48	48	48	62,5	-	-	10	14,5	1-5	9	5	36	-	64	54	-
PM69..	B64, RY64	64	48	62,5	97	126	10	14,5	1-5	9	5	48	-	64	54	74
PM69..100	B64, RY64	64	78	78	-	-	10	14,5	1-5	9	5	48	-	85	60	-

Handles

H69-0001 / RY64

H69-0002 / B64

H69-0003 / RY48

H69-0004 / B48

