

Zentralbefestigung Ø 22,5 mm

20A / 25A / 32A

- **Steuerschalter** ■ **Instrumentenschalter**
- **Ein-/Ausschalter** ■ **Umschalter**
- **Stufenschalter** ■ **Motorschalter**

1 ... 24 Kontakte

IP66 (frontseitig)
Zentralbefestigung Ø 22,5 mm



Aufbau der Bestellnummer:

Bestellbeispiel: 3-poliger Umschalter mit Nullstellung 60°, 20A, M-Griff.

Typ - Schaltprogramm - Bauform

M220 - 61027 - 219M1

Typ	Bemessungsdaten (IEC 60947)			Schutzart Klemmen	Anschlusstechnik
	Betriebsstrom I _e AC-21A (A)	Betriebsleistung (bei 380–440V) AC-23A (kW) AC-3 (kW)			
P220 P225	20 25	7,5 11	5,5 7,5	IP1B IP1B	Anschlussklemmen aus der Einbaurichtung zugänglich
M220 M225	20 25	7,5 11	5,5 7,5	IP20 IP20	Anschlussklemmen von der Seite zugänglich
T225	32	15	11	IP20	Anschlussklemmen von der Seite zugänglich

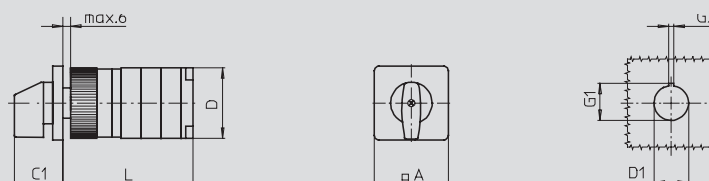
Ausführliche Technische Daten ab Seite 192.

Schaltprogramm	Schaltzonen	Kontakte	Beschreibung
61191	1	1	Ein-/Ausschalter 90°, 1-polig
61192	1	2	Ein-/Ausschalter 90°, 2-polig
61001	1	1	Ein-/Ausschalter 60°, 1-polig
61002	1	2	Ein-/Ausschalter 60°, 2-polig
61025	1	2	Umschalter mit Nullstellung 60°, 1-polig
61026	2	4	Umschalter mit Nullstellung 60°, 2-polig
61027	3	6	Umschalter mit Nullstellung 60°, 3-polig
61037	1	2	Umschalter ohne Nullstellung 60°, 1-polig
61050	2	4	Stufenschalter ohne Nullstellung, 4 Stufen, 1-polig
61313	3	6	Voltmeter-Umschalter mit Nullstellung, 3 verkettete Spannungen + 3 Phasen gegen N
61325	3	6	Amperemeter-Umschalter mit Nullstellung, 3 Wandlerkreise, 1-polig
61211	3	5	Motorwendeswitcher, 3-polig

Schalbilder und weitere Schaltprogramme ab Seite 156.

Bauform	Antrieb
219M1	M-Griff silber/schwarz

































Abmessungen in mm:









Typ	A	C1	D	D1	G1	G2	L bei ... Schaltzonen (max. 12)							
							1	2	3	4	5	6	7	je weitere
P220	48	32	44	22,5	24,2	3,2	66	79	92	105	118	131	144	13
P225	48	32	46	22,5	24,2	3,2	70	85	100	115	130	145	160	15
M220	48	32	46	22,5	24,2	3,2	59	69	79	89	99	109	119	10
M225	48	32	48	22,5	24,2	3,2	62	75	88	101	114	127	140	13
T225	48	32	50	22,5	24,2	3,2	64	79	94	109	124	139	154	15

Schaltprogramme

Voltmeter-Umschalter mit Nullstellung

Ausführung	Schaltzonen	Kontakte	Ident-Nr.	Ident-Nr. mit Beschriftung
3 Phasen gegen N	2	4	61311.	      <p>61311- 61311A 61311B 61311C 61311D 61311E</p>
3 verkettete Spannungen + 3 Phasen gegen N	3	6	61313.	      <p>61313- 61313A 61313B 61313C 61313D 61313E</p>   <p>61313F 61313G</p>
3 verkettete Spannungen + 1 Phase gegen N	3	5	61317.	      <p>61317- 61317A 61317B 61317C 61317D 61317E</p>
3 verkettete Spannungen für 2 Netze	4	8	61318.	      <p>61318- 61318A 61318B 61318C 61318D 61318E</p>   <p>61318F 61318G</p>
2-polig, 1-phasig	1	2	61198.	    <p>61198- 61198A 61198B 61198C</p>

Voltmeter-Umschalter ohne Nullstellung

Ausführung	Schaltzonen	Kontakte	Ident-Nr.	Ident-Nr. mit Beschriftung
3 verkettete Spannungen	2	4	61319.	   <p>61319- 61319A 61319B</p>
3 verkettete Spannungen + 3 Phasen gegen N	3	6	61314.	   <p>61314- 61314A 61314B</p>

Single hole mounting Ø 22.5 mm

20A / 25A / 32A

- Control Switch
- ON-OFF Switch
- Multi-step Switch
- Instrument Switch
- Changeover Switch
- Motor Switch

1 ... 24 contacts

IP66 (front)

Single hole mounting Ø 22.5 mm



Order code structure:

Ordering example: 3 pole Changeover Switch with centre OFF 60°, 20A, M-handle:

Type - Switching programme - Mounting form

M220 - 61027 - 219M1

Type	Rated data (IEC 60947)			Degree of protection Terminals	Terminal accessibility
	Operational current I _e AC-21A (A)	Operational power (at 380–440V) AC-23A (kW) AC-3 (kW)			
P220 P225	20 25	7.5 11	5.5 7.5	IP1B IP1B	Terminals accessible from mounting direction
M220 M225	20 25	7.5 11	5.5 7.5	IP20 IP20	Terminals accessible laterally
T225	32	15	11	IP20	Terminals accessible laterally

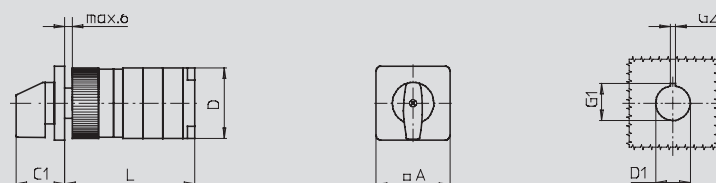
Detailed technical data page 192.

Switching progr.	Stages	Contacts	Description
61191	1	1	ON-OFF Switch 90°, 1 pole
61192	1	2	ON-OFF Switch 90°, 2 pole
61001	1	1	ON-OFF Switch 60°, 1 pole
61002	1	2	ON-OFF Switch 60°, 2 pole
61025	1	2	Changeover Switch with centre OFF 60°, 1 pole
61026	2	4	Changeover Switch with centre OFF 60°, 2 pole
61027	3	6	Changeover Switch with centre OFF 60°, 3 pole
61037	1	2	Changeover Switch without OFF 60°, 1 pole
61050	2	4	Multi-step Switch without OFF, 4 steps, 1 pole
61313	3	6	Voltmeter Selector Switch with centre OFF, 3 phase line to line + 3 phase line to N
61325	3	6	Ammeter Selector Switch with centre OFF, 3 transformers, 1 pole
61211	3	5	Motor Reversing Switch, 3 pole

Switching diagrams and further switching programmes page 156.

Mounting form	Operator
219M1	M-handle silver/black

































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





Type	A	C1	D	D1	G1	G2	L with ... stages (max. 12)							each additional
							1	2	3	4	5	6	7	
P220	48	32	44	22.5	24.2	3.2	66	79	92	105	118	131	144	13
P225	48	32	46	22.5	24.2	3.2	70	85	100	115	130	145	160	15
M220	48	32	46	22.5	24.2	3.2	59	69	79	89	99	109	119	10
M225	48	32	48	22.5	24.2	3.2	62	75	88	101	114	127	140	13
T225	48	32	50	22.5	24.2	3.2	64	79	94	109	124	139	154	15

Switching programmes

Voltmeter Selector Switches with OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 phase line to N	2	4	61311.	      <p>61311- 61311A 61311B 61311C 61311D 61311E</p>
3 phase line to line + 3 phase line to N	3	6	61313.	      <p>61313- 61313A 61313B 61313C 61313D 61313E</p>   <p>61313F 61313G</p>
3 phase line to line + 1 phase line to N	3	5	61317.	      <p>61317- 61317A 61317B 61317C 61317D 61317E</p>
3 phase line to line for 2 sources	4	8	61318.	      <p>61318- 61318A 61318B 61318C 61318D 61318E</p>   <p>61318F 61318G</p>
2 pole, 1 phase	1	2	61198.	    <p>61198- 61198A 61198B 61198C</p>

Voltmeter Selector Switches without OFF

Description	Stages	Contacts	Ident No.	Ident No. with inscription
3 phase line to line	2	4	61319.	   <p>61319- 61319A 61319B</p>
3 phase line to line + 3 phase line to N	3	6	61314.	   <p>61314- 61314A 61314B</p>