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GX SERIES

- IEC conventional free air thermal current Ith, 16A to 40A ratings
- Square-shaped contact body
- IEC IP20 degree of protection of contacts
- IEC IP65 degree of protection on front, standard supplied.



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GN SERIES

- IEC conventional free air thermal current Ith, 16A to 125A ratings
- Round-shaped contact body
- IEC IP00 degree of protection of contacts
- IEC IP40 degree of protection on front, standard supplied.



- Suitable for circuit connection, changeover, switching on and off as well as motor starting
- Possibility of special circuit schemes
- IEC IP40 or IP65 front degree of protection
- 2-screw fixing
- Wide range of features.

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U version front mount. ON/OFF switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Weight
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

One-pole – 1 wafer – scheme 90.

GX16 90 U	16	□ 48	1	0.096
GX20 90 U	20	□ 48	1	0.096
GX32 90 U	32	□ 65	1	0.192
GX40 90 U	40	□ 65	1	0.194



Two-pole – 1 wafer – scheme 91.

GX16 91 U	16	□ 48	1	0.100
GX20 91 U	20	□ 48	1	0.100
GX32 91 U	32	□ 65	1	0.204
GX40 91 U	40	□ 65	1	0.206



Three-pole – 2 wafers – scheme 10.

GX16 10 U	16	□ 48	1	0.115
GX20 10 U	20	□ 48	1	0.115
GX32 10 U	32	□ 65	1	0.242
GX40 10 U	40	□ 65	1	0.244



Four-pole – 2 wafers – scheme 92.

GX16 92 U	16	□ 48	1	0.118
GX20 92 U	20	□ 48	1	0.122
GX32 92 U	32	□ 65	1	0.252
GX40 92 U	40	□ 65	1	0.254



Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC230 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	³ / ₄	1	1½	3	—	—	6.5
GX20	15	³ / ₄	1½	1½	3	5	5	7.5
GX32	32	1½	3	3	7½	15	15	15
GX40	40	2	5	5	10	15	15	18.5

General characteristics

- IEC 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP65 front degree of protection; IEC IP20 protection of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

Enlarged front plate for GX16-GX20 (65x65mm instead of standard 48x48):

Add "H" after the switch rating in the order code
E.g. GX16H 10 U.

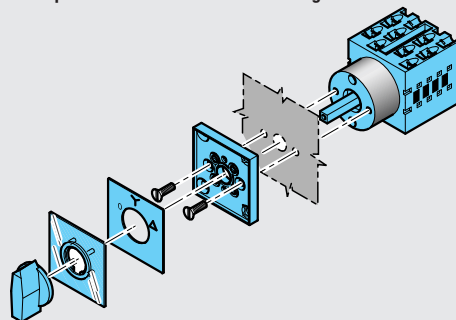
Enlarged front plate for GX32-GX40 (90x90mm instead of standard 65x65):

Add "H" after the switch rating in the order code
E.g. GX32H 10 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10.18.

Example of U version switch mounting



Certifications and compliance

Certifications obtained: GOST; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

**U version
front mount.
Changeover switches
with 0 position.
Changeover switches
without 0 position**



Order code	Rated current AC1	Front plate size	Qty per pkg	Weight
	[A]	[mm]	n°	[kg]

CHANGEOVER SWITCHES WITH 0.
One-pole – 1 wafer – scheme 51.

GX16 51 U	16	□ 48	1	0.098
GX20 51 U	20	□ 48	1	0.098
GX32 51 U	32	□ 65	1	0.210
GX40 51 U	40	□ 65	1	0.212



Two-pole – 2 wafers – scheme 52.

GX16 52 U	16	□ 48	1	0.120
GX20 52 U	20	□ 48	1	0.120
GX32 52 U	32	□ 65	1	0.270
GX40 52 U	40	□ 65	1	0.272



Three-pole – 3 wafers – scheme 53.

GX16 53 U	16	□ 48	1	0.148
GX20 53 U	20	□ 48	1	0.148
GX32 53 U	32	□ 65	1	0.327
GX40 53 U	40	□ 65	1	0.326



Four-pole – 4 wafers – scheme 75.

GX16 75 U	16	□ 48	1	0.164
GX20 75 U	20	□ 48	1	0.172
GX32 75 U	32	□ 65	1	0.378
GX40 75 U	40	□ 65	1	0.380



CHANGEOVER SWITCHES WITHOUT 0.
One-pole – 1 wafer – scheme 54.

GX16 54 U	16	□ 48	1	0.098
GX20 54 U	20	□ 48	1	0.098
GX32 54 U	32	□ 65	1	0.212



Two-pole – 2 wafers – scheme 55.

GX16 55 U	16	□ 48	1	0.124
GX20 55 U	20	□ 48	1	0.124
GX32 55 U	32	□ 65	1	0.266



Three-pole – 3 wafers – scheme 56.

GX16 56 U	16	□ 48	1	0.148
GX20 56 U	20	□ 48	1	0.148
GX32 56 U	32	□ 65	1	0.318



Four-pole – 4 wafers – scheme 69.

GX16 69 U	16	□ 48	1	0.164
GX20 69 U	20	□ 48	1	0.172
GX32 69 U	32	□ 65	1	0.380



Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	3/4	1	1½	3	—	—	6.5
GX20	15	3/4	1½	1½	3	5	5	7.5
GX32	32	1½	3	3	7½	15	15	15
GX40	40	2	5	5	10	15	15	18.5

General characteristics

- IEC 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP65 front degree of protection; IEC IP20 protection of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

Enlarged front plate for GX16-GX20 (65x65mm instead of standard 48x48):

Add "H" after the switch rating in the order code
E.g. GX16H 52 U.

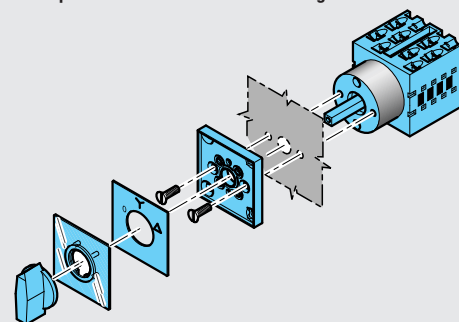
Enlarged front plate for GX32-GX40 (90x90mm instead of standard 65x65):

Add "H" after the switch rating in the order code
E.g. GX32H 52 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10-18.

Example of U version switch mounting



Certifications and compliance

Certifications obtained: GOST; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

U version front mount. Motor switches



Order code	Ith AC1	Max power AC23A	Front plate size	Qty per pkg	Wt.
	[A]	[kW]	[mm]	n°	[kg]

MOTOR SWITCHES.

Reversing switches. Three-pole – 3 wafers – scheme 11.

GX16 11 U	16	5	□ 48	1	0.138
GX20 11 U	20	7.5	□ 48	1	0.140
GX32 11 U	32	15	□ 65	1	0.316
GX40 11 U	40	15	□ 65	1	0.318



Pole-changing switches. 4 wafers – scheme 13.

GX16 13 U	16	5	□ 48	1	0.166
GX20 13 U	20	7.5	□ 48	1	0.168
GX32 13 U	32	15	□ 65	1	0.400
GX40 13 U	40	15	□ 65	1	0.400



Star-delta switches. 4 wafers – scheme 12.

GX16 12 U	16	5	□ 48	1	0.176
GX20 12 U	20	7.5	□ 48	1	0.176
GX32 12 U	32	15	□ 65	1	0.384
GX40 12 U	40	15	□ 65	1	0.386



3-pole motor reversing switches with spring return to 0.

3 wafers – scheme 26.

GX16 26 U	16	5	□ 48	1	0.148
GX20 26 U	20	7.5	□ 48	1	0.148
GX32 26 U	32	15	□ 65	1	0.320



General characteristics

- IEC 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP65 front degree of protection; IEC IP20 degree of protection of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection

See page 10-24.

Optional

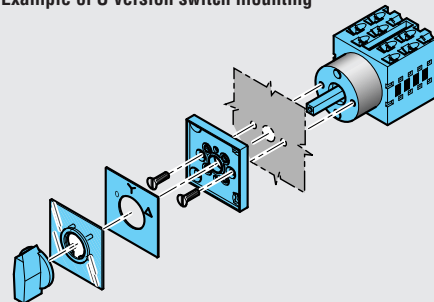
Enlarged front plate for GX16-GX20 (65x65mm instead of standard 48x48): Add "H" after the switch rating in the order code E.g. GX16H 11 U.

Enlarged front plate for GX32-GX40 (90x90mm instead of standard 65x65): Add "H" after the switch rating in the order code E.g. GX32H 11 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Example of U version switch mounting



Certifications and compliance

Certifications obtained: GOST; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

Valid for motor, voltmeter and ammeter switches:

Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in.

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U version front mount. Voltmeter switches. Ammeter switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Weight
	[A]	[mm]	n°	[kg]

VOLTMETER SWITCHES.

Phase-Neutral L1-N/L2-N/L3-N – 2 wafers – scheme 68.

GX16 68 U	16	□ 48	1	0.120
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Phase-Phase L1-L2/L2-L3/L3-L1 – 2 wafers – scheme 67.

GX16 67 U	16	□ 48	1	0.124
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For 3 phase to phase voltage and 3 phase voltage readings
3 wafers – scheme 66.

GX16 66 U	16	□ 48	1	0.152
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For 1 phase voltage and 3 phase to phase voltage readings
3 wafers – scheme 60.

GX16 60 U	16	□ 48	1	0.143
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AMMETER SWITCHES.

Direct L1-L2-L3 current readings – 5 wafers – scheme 97.

GX16 97 U	16	□ 48	1	0.186
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For L1-L2-L3 readings via 3 CTs – 3 wafers – scheme 98.

GX16 98 U	16	□ 48	1	0.144
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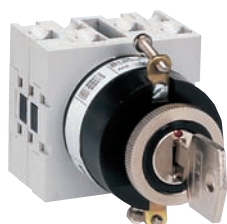
Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	3/4	1	1½	3	—	—	6.5
GX20	15	3/4	1½	1½	3	5	5	7.5
GX32	32	1½	3	3	7½	15	15	15
GX40	40	2	5	5	10	15	15	18.5

U11 version front mount with handle operation, for central 22mm fixing. ON/OFF switches



Order code		Rated current AC1	Front plate size	Qty per pkg	Weight
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES.					
One-pole – 1 wafer – scheme 90.					
GX16 90 U11		16	—	1	0.100
Two-pole – 1 wafer – scheme 91.					
GX16 91 U11		16	—	1	0.100
Three-pole – 2 wafers – scheme 10.					
GX16 10 U11		16	—	1	0.120
Four-pole – 2 wafers – scheme 92.					
GX16 92 U11		16	—	1	0.123

U12 version front mount with key operation, for central 22mm fixing. ON/OFF switches



Order code		Rated current AC1	Front plate size	Qty per pkg	Weight
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES.					
One-pole – 1 wafer – scheme 90.					
GX16 90 U12		16	—	1	0.122
Two-pole – 1 wafer – scheme 91.					
GX16 91 U12		16	—	1	0.122
Three-pole – 2 wafers – scheme 10.					
GX16 10 U12		16	—	1	0.140
Four-pole – 2 wafers – scheme 92.					
GX16 92 U12		16	—	1	0.146

U25-U65 versions front mount with red/yellow padlock system. ON/OFF switches



Order code		Rated current AC1	Front plate size	Qty per pkg	Weight
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES.					
Three-pole – 2 wafers – scheme 10.					
GX16 10 U25		16	□ 48	1	0.125
GX20 10 U25		20	□ 48	1	0.125
GX32 10 U25		32	□ 65	1	0.254
GX40 10 U65		40	□ 65	1	0.254
Four-pole – 2 wafers – scheme 92.					
GX16 92 U25		16	□ 48	1	0.130
GX20 92 U25		20	□ 48	1	0.130
GX32 92 U25		32	□ 65	1	0.266
GX40 92 U65		40	□ 65	1	0.266

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	3/4	1	1½	3	—	—	6.5
GX20	15	3/4	1½	1½	3	5	5	7.5
GX32	32	1½	3	3	7½	15	15	15
GX40	40	2	5	5	10	15	15	18.5

General characteristics

- IEC 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP65 front degree of protection for U25 and U65, IEC IP40 for U11 and U12; IEC IP20 protection of contacts
- Legend marking for U11 and U12 versions is only for reference while for U25 and U65 types standard supplied as illustrated in the order code table; any other on request.

Selection

See page 10-24.

Optional

Enlarged front plate for GX16-GX20 (65x65mm instead of standard 48x48):

Add "H" after the switch rating in the order code
E.g. GX16H 10 U25.

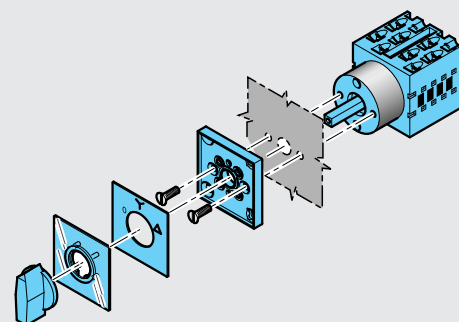
Enlarged front plate for GX32-GX40 (90x90mm instead of standard 65x65):

Add "H" after the switch rating in the order code
E.g. GX32H 10 U25.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10-18.

Example of U25-U65 switch mounting



Certifications and compliance

Certifications obtained: GOST; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

Valid for U11 - U12 - U25 - U65 versions:

Front plate size:

48x48mm = 1.9x1.9in

65x65mm = 2.6x2.6in

90x90mm = 3.5x3.5in.

088 - 098 versions rear mount door coupling with red/yellow padlock system. ON/OFF switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Weight
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

Three-pole – 2 wafers – scheme 10.

GX16 10 088	16	□ 48	1	0.178
GX20 10 088	20	□ 48	1	0.200
GX32 10 088	32	□ 65	1	0.320
GX40 10 098	40	□ 65	1	0.320



Four-pole – 2 wafers – scheme 92.

GX16 92 088	16	□ 48	1	0.182
GX20 92 088	20	□ 48	1	0.182
GX32 92 088	32	□ 65	1	0.320
GX40 92 098	40	□ 65	1	0.330



068 - 078 versions rear mount door coupling. ON/OFF switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Weight
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

Three-pole – 2 wafers – scheme 10.

GX16 10 068	16	□ 48	1	0.170
GX20 10 068	20	□ 48	1	0.170
GX32 10 068	32	□ 65	1	0.295
GX40 10 078	40	□ 65	1	0.295



Four-pole – 2 wafers – scheme 92.

GX16 92 068	16	□ 48	1	0.180
GX20 92 068	20	□ 48	1	0.190
GX32 92 068	32	□ 65	1	0.316
GX40 92 078	40	□ 65	1	0.316



Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	3/4	1	1½	3	—	—	6.5
GX20	15	3/4	1½	1½	3	5	5	7.5
GX32	32	1½	3	3	7½	15	15	15
GX40	40	2	5	5	10	15	15	18.5

General characteristics

- IEC 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action $\ominus$; safety function according to IEC/EN 60947-5-1
- IEC IP65 front degree of protection; IEC IP20 degree of protection of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection

See page 10-24.

Optional

Enlarged front plate for GX16-GX20 (65x65mm instead of standard 48x48):

Add "H" after the switch rating in the order code
E.g. GX16H 10 088.

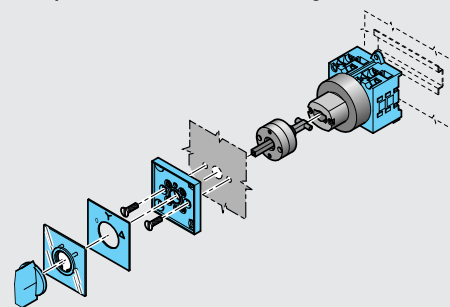
Enlarged front plate for GX32-GX40 (90x90mm instead of standard 65x65):

Add "H" after the switch rating in the order code
E.g. GX32H 10 088.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10-18.

Example of 0 version switch mounting



Certifications and compliance

Certifications obtained: GOST; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

Valid for 088 - 098 - 068 - 078 versions:

Front plate size:

48x48mm = 1.9x1.9in

60x60mm = 2.6x2.6in

90x90mm = 3.5x3.5in.

048 version
modular service cover
35mm DIN rail mount.
ON/OFF switches.
Changeover switches.
Voltmeter switches.
Ammeter switches



Order code		Rated current AC1	Front plate size	Qty per pkg	Weight
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES.					
One-pole – 3 wafers – scheme 90.					
GX16 90 048		16	45x54	1	0.110
Two-pole – 3 wafers – scheme 91.					
GX16 91 048		16	45x54	1	0.110
Three-pole – 3 wafers – scheme 10.					
GX16 10 048		16	45x54	1	0.118
Four-pole – 3 wafers – scheme 92.					
GX16 92 048		16	45x54	1	0.125
CHANGEOVER SWITCHES WITH 0.					
One-pole – 3 wafers – scheme 51.					
GX16 51 048		16	45x54	1	0.098
Two-pole – 3 wafers – scheme 52.					
GX16 52 048		16	45x54	1	0.122
Three-pole – 3 wafers – scheme 53.					
GX16 53 048		16	45x54	1	0.150
Four-pole – 4 wafers – scheme 75.					
GX16 75 048		16	45x54	1	0.170
VOLTMETER SWITCHES.					
Phase-Neutral L1-N/L2-N/L3-N – 3 wafers – scheme 68.					
GX16 68 048		16	45x54	1	0.130
Phase-Phase L1-L2/L2-L3/L3-L1 – 3 wafers – scheme 67.					
GX16 67 048		16	45x54	1	0.130
For 3 phase to phase voltage and 3 phase voltage readings 3 wafers – scheme 66					
GX16 66 048		16	45x54	1	0.156
AMMETER SWITCHES.					
Direct L1-L2-L3 current readings – 5 wafers – scheme 97.					
GX16 97 048		16	45x54	1	0.196
For L1-L2-L3 readings via 3 CTs – 4 wafers – scheme 98.					
GX16 98 048		16	45x54	1	0.150

Front plate size:
45x45mm = 1.8x1.8in

General characteristics

- IEC 16A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action $\ominus$; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection; IEC IP20 degree of protection of contacts
- Suitable for screw fixing or mounting on 35mm DIN rail (IEC/EN 60175)
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Certifications and compliance

Certifications obtained: GOST; UL Listed, for USA and Canada (File E155982) as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1, UL508, CSA C22.2 n° 14.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	3/4	1	1½	3	—	—	6.5

P version in enclosure with rotating handle. ON/OFF switches. Changeover switches



Order code	Rated current AC1	Housing size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

Three poles - scheme 10.

GX16 10 P	16	90x90	1	0.330
GX20 10 P	20	90x90	1	0.330
GX32 10 P	32	110x110	1	0.560
GX40 10 P	40	110x110	1	0.560



ON/OFF SWITCHES.

Four poles - scheme 92.

GX16 92 P	16	90x90	1	0.340
GX20 92 P	20	90x90	1	0.340
GX32 92 P	32	110x110	1	0.575
GX40 92 P	40	110x110	1	0.575



CHANGEOVER SWITCHES.

Three poles - scheme 53.

GX16 53 P	16	90x90	1	0.415
GX20 53 P	20	90x90	1	0.415
GX32 53 P	32	110x110	1	0.710
GX40 53 P	40	110x110	1	0.710



Four poles - scheme 75.

GX16 75 P	16	90x90	1	0.430
GX20 75 P	20	90x90	1	0.430
GX32 75 P	32	110x110	1	0.760
GX40 75 P	40	110x110	1	0.760



General characteristics

- 16 to 40A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual-breaking contacts
- Direct opening action $\ominus$; safety function according to IEC/EN 60947-5-1
- IP65 degree of protection
- Top and bottom entry: 4 PG16 threaded knockouts for 90x90mm types and 4 PG21 for 110x110mm
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Certifications and compliance

Certifications obtained: GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, IEC/EN 61058-1.

Valid for P - P25 versions:

Housing size:

90x90mm = 3.5x3.5in

110x110mm = 4.3x4.3in.

P version in enclosure with rotating handle. Motor switches



Order code	Ith AC1	Max power AC23A	Housing size	Qty per pkg	Wt.
	[A]	[A]	[mm]	n°	[kg]

MOTOR SWITCHES.

Three-pole reversing switches - scheme 11.

GX16 11 P	16	5	90x90	1	0.405
GX20 11 P	20	7.5	90x90	1	0.425
GX32 11 P	32	15	110x110	1	0.695
GX40 11 P	40	15	110x110	1	0.700



P25 version in enclosure with padlockable rotating handle. ON/OFF switches



Order code	Rated current AC1	Housing size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

Three poles - scheme 10.

GX16 10 P25	16	90x90	1	0.340
GX20 10 P25	20	90x90	1	0.345
GX32 10 P25	32	110x110	1	0.586



Four poles - scheme 92.

GX16 92 P25	16	90x90	1	0.350
GX20 92 P25	20	90x90	1	0.350
GX32 92 P25	32	110x110	1	0.605



For indication and reference purposes only - NO UL/CSA

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GX16	12	3/4	1	1½	3	—	—	6.5
GX20	15	3/4	1½	1½	3	5	5	7.5
GX32	32	1½	3	3	7½	15	15	15
GX40	40	2	5	5	10	15	15	18.5

Accessories for GX switches



7 A014 - 7 AR114 - 7 A114 - 7 AR214



7 AR124 - 7 A124 - 7 AR224



7 APRBP



GX M1 - GX M2



GX M5 - GX M6



GX A01 - GX A01H - GX A11

Order code	Description	Q.ty per pkg	Weight
		n.	[kg]
Black operating handle❶.			
7 A014	For 48x48mm/1.9x1.9" front plate □ 6mm/0.24in for GX16-GX20	1	0.005
7 A114	For GX32 - GX40 65x65mm/2.6x2.6" front plate □ 7mm/0.28in for GX32-GX40 and GX16H-GX20H	1	0.010
7 AR214	For 90x90mm/3.5x3.4" front plate □ 7mm/0.28in for GX32H-GX40H	1	0.015
Black operating lever❶.			
7 A124	For 65x65mm/2.6x2.6" front plate □ 7mm/0.28in for GX32-GX40 and GX16H-GX20H	1	0.020
7 AR224	For 90x90mm/3.5x3.4" front plate □ 8mm/0.31in for GX32H-GX40H	1	0.038
Adjustable door-coupling extension shaft. 70mm/2.8" long max❶.			
7 APRBP	For GX16 to GX40	1	0.027
IP40 face plate❶.			
GX M1	48x48mm/1.9x1.9" blank face plate	1	0.018
GX M2	65x65mm/2.6x2.6" blank face plate	1	0.023
IP40 face plate with legend plate.			
GX M5	48x60mm/1.9x2.6" blank face plate with legend plate	1	0.017
GX M6	65x80mm/2.6x3.1" blank face plate with legend plate	1	0.033
Padlockable handle❶.			
GX A01	48x48mm/1.9x1.9" yellow/red 0-1 padlockable handle for 2-position GX16-GX20	1	0.026
GX A01H	65x65mm/2.6x2.6" yellow/red 0-1 padlockable handle for 2-position GX16-GX20	1	0.047
GX A11	65x65mm/2.6x2.6" yellow/red 0-1 padlockable handle for 2-position GX32-GX40	1	0.047

❶ Also suitable for GN series.

U version front mount. ON/OFF switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

One pole - 1 wafer - scheme 90.

7 GN12 90 U	16	□ 48	1	0.075
7 GN20 90 U	20	□ 48	1	0.077
7 GN25 90 U	25	□ 48	1	0.087
7 GN32 90 U	32	□ 65	1	0.173
7 GN40 90 U	40	□ 65	1	0.173
7 GN63 90 U	63	□ 65	1	0.200



2 poles - 1 wafer - scheme 91.

7 GN12 91 U	16	□ 48	1	0.079
7 GN20 91 U	20	□ 48	1	0.082
7 GN25 91 U	25	□ 48	1	0.094
7 GN32 91 U	32	□ 65	1	0.186
7 GN40 91 U	40	□ 65	1	0.186
7 GN63 91 U	63	□ 65	1	0.218



3 poles - 2 wafers - scheme 10.

7 GN12 10 U	16	□ 48	1	0.088
7 GN20 10 U	20	□ 48	1	0.095
7 GN25 10 U	25	□ 48	1	0.116
7 GN32 10 U	32	□ 65	1	0.228
7 GN40 10 U	40	□ 65	1	0.240
7 GN63 10 U	63	□ 65	1	0.282
7 GN125 10 U	125	□ 90	1	0.706



4 poles - 2 wafers - scheme 92.

7 GN12 92 U	16	□ 48	1	0.088
7 GN20 92 U	20	□ 48	1	0.098
7 GN25 92 U	25	□ 48	1	0.122
7 GN32 92 U	32	□ 65	1	0.232
7 GN40 92 U	40	□ 65	1	0.251
7 GN63 92 U	63	□ 65	1	0.302
7 GN125 92 U	125	□ 90	1	0.782



Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC230 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GN12	15	¾	1	1½	3	—	—	5.5
GN20	20	¾	2	1½	3	—	—	7.5
GN25	30	1½	3	3	5	10	15	11
GN32	40	2	5	5	10	15	15	15
GN40	50	2	5	5	10	20	20	18.5
GN63	60	5	10	7½	15	25	25	30
GN125	130	7½	15	15	25	50	40	45

General characteristics

- IEC 16 to 125A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action $\ominus$; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection (for IP65 see Optional-front plate); IEC IP00 of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

IEC IP65 front plate

Add "51" at the end of the order code.

E.g. 7 GN12 92 U 51.

Enlarged plate for GN12-20-25 (65x65mm instead of 48x48)

Add the letter "H" after the switch size of the order code.

E.g. 7 GN12H 10 U.

Enlarged plate for GN32-40-63 (90x90mm instead of 65x65)

Add the letter "H" after the switch size of the order code.

E.g. 7 GN32H 10 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Certifications and compliance

Certifications obtained: GOST; CSA certified, for Canada and USA (File 207767) and UL Listed, for USA (File E155982), as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

U version, front mount. Changeover switches with or without 0 (OFF)



Order code	Rated current AC1	Front plate size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

CHANGEOVER SWITCH WITH 0 (OFF).
One-pole - 1 wafer - scheme 51.

7 GN12 51 U	16	□ 48	1	0.078
7 GN20 51 U	20	□ 48	1	0.081
7 GN25 51 U	25	□ 48	1	0.090
7 GN32 51 U	32	□ 65	1	0.183
7 GN40 51 U	40	□ 65	1	0.194
7 GN63 51 U	63	□ 65	1	0.224



Two-pole - 2 wafers - scheme 52.

7 GN12 52 U	16	□ 48	1	0.095
7 GN20 52 U	20	□ 48	1	0.098
7 GN25 52 U	25	□ 48	1	0.121
7 GN32 52 U	32	□ 65	1	0.232
7 GN40 52 U	40	□ 65	1	0.251
7 GN63 52 U	63	□ 65	1	0.302
7 GN125 52 U	125	□ 90	1	0.788



Three-pole - 3 wafers - scheme 53.

7 GN12 53 U	16	□ 48	1	0.107
7 GN20 53 U	20	□ 48	1	0.115
7 GN25 53 U	25	□ 48	1	0.152
7 GN32 53 U	32	□ 65	1	0.285
7 GN40 53 U	40	□ 65	1	0.308
7 GN63 53 U	63	□ 65	1	0.377
7 GN125 53 U	125	□ 90	1	1.036



Four-pole - 4 wafers - scheme 75.

7 GN12 75 U	16	□ 48	1	0.123
7 GN20 75 U	20	□ 48	1	0.134
7 GN25 75 U	25	□ 48	1	0.180
7 GN32 75 U	32	□ 65	1	0.334
7 GN40 75 U	40	□ 65	1	0.358
7 GN63 75 U	63	□ 65	1	0.468
7 GN125 75 U	125	□ 90	1	1.270



CHANGEOVER SWITCH WITHOUT 0 (OFF).
One-pole - 1 wafer - scheme 54.

7 GN12 54 U	16	□ 48	1	0.079
7 GN20 54 U	20	□ 48	1	0.082
7 GN25 54 U	25	□ 48	1	0.096



Two-pole - 2 wafers - scheme 55.

7 GN12 55 U	16	□ 48	1	0.093
7 GN20 55 U	20	□ 48	1	0.100
7 GN25 55 U	25	□ 48	1	0.122



Three-pole - 3 wafers - scheme 56.

7 GN12 56 U	16	□ 48	1	0.108
7 GN20 56 U	20	□ 48	1	0.115
7 GN25 56 U	25	□ 48	1	0.145



Four-pole - 4 wafers - scheme 69.

7 GN12 69 U	16	□ 48	1	0.124
7 GN20 69 U	20	□ 48	1	0.134
7 GN25 69 U	25	□ 48	1	0.174



Front plate size:
48x48mm = 1.9x1.9in - 60x60mm = 2.6x2.6in - 90x90mm = 3.5x3.5in.

General characteristics

- IEC 16 to 125A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection (for IP65 see Optional-front plate); IEC IP00 of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

IEC IP65 front plate
Add "51" at the end of the order code.
E.g. 7 GN12 52 U 51.

Enlarged plate for GN12-20-25 (65x65mm instead of 48x48)

Add the letter "H" after the switch size of the order code.
E.g. 7 GN12H 51 U.

Enlarged plate for GN32-40-63 (90x90mm instead of 65x65)

Add the letter "H" after the switch size of the order code.
E.g. 7 GN32H 51 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10-18.

Certifications and compliance

Certifications obtained: GOST; CSA certified, for Canada and USA (File 207767) and UL Listed, for USA (File E155982), as Manual Motor Controllers.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GN12	15	3/4	1	1½	3	—	—	5.5
GN20	20	3/4	2	1½	3	—	—	7.5
GN25	30	1½	3	3	5	10	15	11
GN32	40	2	5	5	10	15	15	15
GN40	50	2	5	5	10	20	20	18.5
GN63	60	5	10	7½	15	25	25	30
GN125	130	7½	15	15	25	50	40	45

U version front mount. Motor switches



Order code	Ith AC1	Max power AC23A	Front plate size	Qty per pkg	Wt
	[A]	[kW]	[mm]	n°	[kg]

MOTOR SWITCHES.

Three-pole reversing switches - 3 wafers - scheme 11.

7 GN12 11 U	16	6	□ 48	1	0.105
7 GN20 11 U	20	7.5	□ 48	1	0.111
7 GN25 11 U	25	11	□ 48	1	0.145
7 GN32 11 U	32	15	□ 65	1	0.278
7 GN40 11 U	40	18.5	□ 65	1	0.294
7 GN63 11 U	63	30	□ 65	1	0.366
7 GN125 11 U	125	45	□ 90	1	0.976



Pole changing switches - 4 wafers - scheme 13.

7 GN12 13 U	16	6	□ 48	1	0.126
7 GN20 13 U	20	7.5	□ 48	1	0.134
7 GN25 13 U	25	11	□ 48	1	0.181
7 GN32 13 U	32	15	□ 65	1	0.342
7 GN40 13 U	40	18.5	□ 65	1	0.366
7 GN63 13 U	63	30	□ 65	1	0.465
7 GN125 13 U	125	45	□ 90	1	1.301



Star-delta switches - 4 wafers - scheme 12.

7 GN12 12 U	16	6	□ 48	1	0.124
7 GN20 12 U	20	7.5	□ 48	1	0.134
7 GN25 12 U	25	11	□ 48	1	0.175
7 GN32 12 U	32	15	□ 65	1	0.343
7 GN40 12 U	40	18.5	□ 65	1	0.366
7 GN63 12 U	63	30	□ 65	1	0.465
7 GN125 12 U	125	45	□ 90	1	1.303



Three-pole reversing switches with spring return to 0 - 3 wafers - scheme 26.

7 GN12 26 U	16	6	□ 48	1	0.106
7 GN20 26 U	20	7.5	□ 48	1	0.111
7 GN25 26 U	25	11	□ 48	1	0.144



Pole changing switches with reversing (Dahlander) - 6 wafers - scheme 20.

7 GN12 20 U	16	6	□ 48	1	0.161
7 GN20 20 U	20	7.5	□ 48	1	0.165
7 GN25 20 U	25	11	□ 48	1	0.246



Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GN12	15	¾	1	1½	3	—	—	5.5
GN20	20	¾	2	1½	3	—	—	7.5
GN25	30	1½	3	3	5	10	15	11
GN32	40	2	5	5	10	15	15	15
GN40	50	2	5	5	10	20	20	18.5
GN63	60	5	10	7½	15	25	25	30
GN125	130	7½	15	15	25	50	40	45

General characteristics

- IEC 16 to 125A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection (for IP65 see Optional-front plate); IEC IP00 of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

IEC IP65 front plate

Add “51” at the end of the order code.

E.g. 7 GN12 13 U 51.

Enlarged plate for GN12-20-25 (65x65mm instead of 48x48)

Add the letter “H” after the switch size of the order code.

E.g. 7 GN12H 11 U.

Enlarged plate for GN32-40-63 (90x90mm instead of 65x65)

Add the letter “H” after the switch size of the order code.

E.g. 7 GN32H 11 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Certifications and compliance

Certifications obtained: GOST; CSA certified, for Canada and USA (File 207767) and UL Listed, for USA (File E155982), as Manual Motor Controllers.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

U version, front mount. Voltmeter switches. Ammeter switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

VOLTMETER SWITCHES.
Phase-Neutral L1-N/L2-N/L3-N
2 wafers - scheme 68.

7 GN12 68 U		16	□ 48	1	0.094
7 GN20 68 U		20	□ 48	1	0.099

Phase-Phase L1-L2/L2-L3/L3-L1
2 wafers - scheme 67.

7 GN12 67 U		16	□ 48	1	0.094
7 GN20 67 U		20	□ 48	1	0.099

For 3 phase to phase voltages and 3 phase voltages
3 wafers - scheme 66.

7 GN12 66 U		16	□ 48	1	0.116
7 GN20 66 U		20	□ 48	1	0.116

For 1 phase voltage and 3 phase to phase voltages
3 wafers - scheme 60.

7 GN12 60 U		16	□ 48	1	0.105
7 GN20 60 U		20	□ 48	1	0.116

AMMETER SWITCHES.
Direct L1-L2-L3 reading - 5 wafers - scheme 97.

7 GN12 97 U		16	□ 48	1	0.132
7 GN20 97 U		20	□ 48	1	0.148

L1-L2-L3 reading via 3 current transformers
4 wafers - scheme 98.

7 GN12 98 U		16	□ 48	1	0.115
7 GN20 98 U		20	□ 48	1	0.115

Front plate size:
48x48mm = 1.9x1.9in
60x60mm = 2.6x2.6in.

Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GN12	15	3/4	1	1½	3	—	—	5.5
GN20	20	3/4	2	1½	3	—	—	7.5

General characteristics

- IEC 16 to 125A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection (for IP65 see Optional-front plate); IEC IP00 of contacts
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

IEC IP65 front plate
Add “51” at the end of the order code.
E.g. 7 GN12 67 U 51.

Enlarged plate for GN12-20-25 (65x65mm instead of 48x48)

Add the letter “H” after the switch size of the order code.
E.g. 7 GN12H 68 U.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10-18.

Certifications and compliance

Certifications obtained: GOST; CSA certified, for Canada and USA (File 207767) and UL Listed, for USA (File E155982), as Manual Motor Controllers.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

U11 version front mount with handle operation for 22mm central fixing. ON/OFF switches



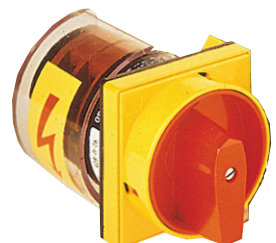
Order code		Rated current AC1	Front plate size	Qty per pkg	Wt
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES. One-pole - 1 wafer - scheme 90.					
7 GN12 90 U11		16	—	1	0.078
7 GN20 90 U11		20	—	1	0.082
Two-pole - 1 wafer - scheme 91.					
7 GN12 91 U11		16	—	1	0.080
7 GN20 91 U11		20	—	1	0.084
Three-pole - 2 wafers - scheme 10.					
7 GN12 10 U11		16	—	1	0.092
7 GN20 10 U11		20	—	1	0.095
Four-pole - 2 wafers - scheme 92.					
7 GN12 92 U11		16	—	1	0.094
7 GN20 92 U11		20	—	1	0.100

U12 version front mount with key operation for 22mm central fixing. ON/OFF switches



Order code		Rated current AC1	Front plate size	Qty per pkg	Wt
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES. One-pole - 1 wafer - scheme 90.					
7 GN12 90 U12		16	—	1	0.100
7 GN20 90 U12		20	—	1	0.104
Two-pole - 1 wafer scheme 91.					
7 GN12 91 U12		16	—	1	0.108
7 GN20 91 U12		20	—	1	0.112
Three-pole - 2 wafers - scheme 10.					
7 GN12 10 U12		16	—	1	0.129
7 GN20 10 U12		20	—	1	0.135
Four-pole - 2 wafers - scheme 92.					
7 GN12 92 U12		16	—	1	0.132
7 GN20 92 U12		20	—	1	0.139

U25-U65 version front mount with padlock system, red/yellow. ON/OFF switches



Order code		Rated current AC1	Front plate size	Qty per pkg	Wt
		[A]	[mm]	n°	[kg]
ON/OFF SWITCHES. Three-pole - 2 wafers - scheme 10.					
7 GN12 10 U25		16	□ 65	1	0.161
7 GN20 10 U25		20	□ 65	1	0.165
7 GN25 10 U25		25	□ 65	1	0.187
7 GN32 10 U25		32	□ 65	1	0.277
7 GN40 10 U65		40	□ 65	1	0.294
7 GN63 10 U65		63	□ 65	1	0.366
7 GN125 10 U65		125	□ 90	1	0.976
Four-pole - 2 wafers - scheme 92.					
7 GN12 92 U25		16	□ 65	1	0.164
7 GN20 92 U25		20	□ 65	1	0.169
7 GN25 92 U25		25	□ 65	1	0.196
7 GN32 92 U25		32	□ 65	1	0.285
7 GN40 92 U65		40	□ 65	1	0.298
7 GN63 92 U65		63	□ 65	1	0.370
7 GN125 92 U65		125	□ 90	1	0.984

General characteristics

- IEC 16 to 125A conventional free air thermal current lth ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action $\ominus$; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection (for IP65 see Optional-front plate); IEC IP00 of contacts for U11 and U12 and IEC IP20 of incoming contacts for U25 and U65 only
- Legend marking for U11 and U12 versions is only for reference while for U25 and U65 types standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

IEC IP65 front plate

Add "51" at the end of the order code.

E.g. 7 GN12 92 U25 51.

Enlarged plate for GN32-40-63 (90x90mm instead of 65x65)

Add the letter "H" after the switch size of the order code.

E.g. 7 GN32H 10 U25.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Certifications and compliance

Certifications obtained: GOST; CSA certified, for Canada and USA (File 207767) and UL Listed, for USA (File E155982), as Manual Motor Controllers. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

Valid for U11 - U12 - U25 - U65 versions:

Front plate size:

65x65mm = 2.6x2.6in

90x90mm = 3.5x3.5in.

For UL/CSA ratings, see page 10-15.

088-098-099 version, rear mount, door-coupling and padlock system, red/yellow. ON/OFF switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.
Three-pole - 2 wafers - scheme 10.

7 GN12 10 088	16	□ 65	1	0.223
7 GN20 10 088	20	□ 65	1	0.223
7 GN25 10 088	25	□ 65	1	0.252
7 GN32 10 088	32	□ 65	1	0.326
7 GN40 10 098	40	□ 65	1	0.329
7 GN63 10 098	63	□ 65	1	0.374
7 GN125 10 099	125	□ 90	1	0.909



Four-pole - 2 wafers - scheme 92.

7 GN12 92 088	16	□ 65	1	0.223
7 GN20 92 088	20	□ 65	1	0.233
7 GN25 92 088	25	□ 65	1	0.259
7 GN32 92 088	32	□ 65	1	0.327
7 GN40 92 098	40	□ 65	1	0.341
7 GN63 92 098	63	□ 65	1	0.391
7 GN125 92 099	125	□ 90	1	0.985



General characteristics

- IEC 16 to 125A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action ⊖; safety function according to IEC/EN 60947-5-1
- IEC IP40 front degree of protection (for IP65 see Optional-front plate); IEC IP20 of incoming contacts only
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24.

Optional

IEC IP65 front plate
Add "51" at the end of the order code.
E.g. 7 GN12 92 088 51.

Fixing plate for DIN 35mm rail (IEC/EN 60715)
Add "18" at the end of the order code.
E.g. 7 GN25 10 0 18.

Enlarged plate for GN12-20-25 (65x65mm instead of 48x48)
Add the letter "H" after the switch size of the order code.
E.g. 7 GN12H 10 068.

Enlarged plate for GN32-40-63 (90x90mm instead of 65x65)
Add the letter "H" after the switch size of the order code.
E.g. 7 GN32H 10 068.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes.
See page 10-18.

Certifications and compliance

Certifications obtained: GOST; CSA certified, for Canada and USA (File 207767) and UL Listed, for USA (File E155982), as Manual Motor Controllers.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

Valid for 088 - 098 - 099 - 068 - 078 - 079 versions:
Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in.

068-078-079 version, rear mount, door-coupling system. ON/OFF switches



Order code	Rated current AC1	Front plate size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.
Three-pole - 2 wafers - scheme 10.

7 GN12 10 068	16	□ 48	1	0.170
7 GN20 10 068	20	□ 48	1	0.176
7 GN25 10 068	25	□ 48	1	0.199
7 GN32 10 068	32	□ 65	1	0.330
7 GN40 10 078	40	□ 65	1	0.310
7 GN63 10 078	63	□ 65	1	0.359
7 GN125 10 079	125	□ 90	1	0.985



Four-pole - 2 wafers - scheme 92.

7 GN12 92 068	16	□ 48	1	0.170
7 GN20 92 068	20	□ 48	1	0.178
7 GN25 92 068	25	□ 48	1	0.240
7 GN32 92 068	32	□ 65	1	0.341
7 GN40 92 078	40	□ 65	1	0.342
7 GN63 92 078	63	□ 65	1	0.378
7 GN125 92 079	125	□ 90	1	0.950



Type	UL/CSA general use [A]	UL horsepower ratings						Max IEC AC23 power [kW] at 400V
		1 phase		3 phases				
		115V	230V	200V	240V	480V	600V	
GN12	15	3/4	1	1½	3	—	—	5.5
GN20	20	3/4	2	1½	3	—	—	7.5
GN25	30	1½	3	3	5	10	15	11
GN32	40	2	5	5	10	15	15	15
GN40	50	2	5	5	10	20	20	18.5
GN63	60	5	10	7½	15	25	25	30
GN125	130	7½	15	15	25	50	40	45

P version in enclosure with rotating handle. ON/OFF switches. Changeover switches



Order code	Rated current AC1	Housing size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

Three-pole - scheme 10.

7 GN12 10 P	16	75x75	1	0.168
7 GN20 10 P	20	75x75	1	0.227
7 GN25 10 P	25	75x75	1	0.258
7 GN32 10 P	32	90x90	1	0.392
7 GN40 10 P	40	110x110	1	0.453
7 GN63 10 P	63	110x110	1	0.766



Four-pole - scheme 92.

7 GN12 92 P	16	75x75	1	0.174
7 GN20 92 P	20	75x75	1	0.222
7 GN25 92 P	25	75x75	1	0.278
7 GN32 92 P	32	90x90	1	0.411
7 GN40 92 P	40	110x110	1	0.411
7 GN63 92 P	63	110x110	1	0.625



CHANGEOVER SWITCHES.

Three-pole - scheme 53.

7 GN12 53 P	16	75x75	1	0.219
7 GN20 53 P	20	75x75	1	0.273
7 GN25 53 P	25	75x75	1	0.307
7 GN32 53 P	32	90x90	1	0.500
7 GN40 53 P	40	110x110	1	0.727
7 GN63 53 P	63	110x110	1	0.785



Four-pole - scheme 75.

7 GN12 75 P	16	75x75	1	0.226
7 GN20 75 P	20	75x75	1	0.289
7 GN25 75 P	25	90x90	1	0.418
7 GN32 75 P	32	90x90	1	0.540
7 GN40 75 P	40	110x110	1	0.753
7 GN63 75 P	63	110x110	1	0.840



P in enclosure version with rotating handle. Motor switches



Order code	Ith AC1	Max power AC23A	Housing size	Qty per pkg	Wt
	[A]	[kW]	[mm]	n°	[kg]

MOTOR SWITCHES.

Three-pole reversing switches - scheme 11.

7 GN12 11 P	16	6	75x75	1	0.216
7 GN20 11 P	20	7.5	75x75	1	0.271
7 GN25 11 P	25	11	75x75	1	0.299
7 GN32 11 P	32	15	90x90	1	0.482
7 GN40 11 P	40	18.5	110x110	1	0.508
7 GN63 11 P	63	30	110x110	1	0.750



P25 version in enclosure with padlockable rotating handle. ON/OFF switches



Order code	Rated current AC1	Housing size	Qty per pkg	Wt
	[A]	[mm]	n°	[kg]

ON/OFF SWITCHES.

Three-pole - scheme 10.

7 GN20 10 P25	20	90x90	1	0.313
7 GN25 10 P25	25	90x90	1	0.327
7 GN32 10 P25	32	90x90	1	0.400



Four poles - scheme 92.

7 GN20 92 P25	20	90x90	1	0.314
7 GN25 92 P25	25	90x90	1	0.339
7 GN32 92 P25	32	90x90	1	0.425



General characteristics

- 16 to 63A conventional free air thermal current Ith ratings
- Extended mechanical and electrical life
- Rotation angles: 30°, 45°, 60° and 90°
- Silver-alloy dual breaking contacts
- Direct opening action $\ominus$; safety function according to IEC/EN 60947-5-1
- IP65 degree of protection
- Top and bottom entry:
 - 4 PG13.5 threaded knockouts for 75x75mm types
 - 4 PG16 threaded knockouts for 90x90mm types
 - 4 PG21 threaded knockouts for 110x110mm types
- Legend marking is standard supplied as illustrated in the order code table; any other on request.

Selection guide

See page 10-24 and 25.

Special versions

In addition to standard types, particular versions are available with special operating circuit schemes. See page 10-18.

Certifications and compliance

Certifications obtained: GOST.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60947-5-1.

Valid for P - P25 versions:

Housing size:

75x75mm = 3x3in

90x90mm = 3.5x3.5in

110x110 = 4.3x4.3in.

Type	UL/CSA general use [A]	Max IEC AC23 power [kW] at 400V
GN12	15	5.5
GN20	20	7.5
GN25	30	11
GN32	40	15
GN40	50	18.5
GN63	60	30

Type	UL horsepower ratings					
	1 phase		3 phases			
	115V	230V	200V	240V	480V	600V
GN12	³ / ₄	1	1½	3	—	—
GN20	³ / ₄	2	1½	3	—	—
GN25	1½	3	3	5	10	15
GN32	2	5	5	10	15	15
GN40	2	5	5	10	20	20
GN63	5	10	7½	15	25	25

Accessories for GN switches



7 A019... -
7 A119...



7 A169...



7 A014 -
7 AR114 -
7 A114 -
7 AR214



7 AR124 -
7 A124 -
7 AR224

new



7 A180 - 7 A181



7 APRBP



7 A441 - 7 A442 - 7 A443



GX M1 - GX M2



GX A01 - GX A01H - GX A11

Order code	Description	Qty per pkg	Wt
		n°	[kg]

IEC IP20 finger protection shroud for supply terminals.
For 2 wafers complete with screws and bracket.

7 A0191	For GN12-GN20	1	0.017
7 A0192	For GN25	1	0.021
7 A119U	For GN32 U version	1	0.033
7 A1190	For GN32 O version	1	0.101

2-piece kit, snap-on fixing for 1 wafer.

7 A1691	For GN40	1	0.005
7 A1692	For GN63	1	0.006
7 A1693	For GN125	1	0.020
7 A1694	For GN12 - GN20	1	0.005
7 A1695	For GN25	1	0.005

Black operating handle^①.

7 A014	For 48x48mm front plate □ 6mm/0.24in for GN12-GN20-GN25	1	0.005
7 AR114	For 65x65mm front plate □ 6mm/0.24in for GN12H-GN20H-GN25H	1	0.010
7 A114 ^②	For 65x65mm front plate □ 6mm/0.24in for GN32-GN40-GN63	1	0.010
7 AR214 ^②	For 90x90mm front plate □ 7mm/0.28in for GN125 and GN32H-GN40H-GN63H	1	0.013

Black operating lever^①.

7 AR214	For 65x65mm front plate □ 6mm/0.24in for GN12H-GN20H-GN25H	1	0.019
7 A124	For 65x65mm front plate □ 7mm/0.28in for GN32-GN40-GN63	1	0.020
7 AR224 ^②	For 90x90mm front plate □ 8mm/0.31in for GN125 and GN32H-GN40H-GN63H	1	0.038

35mm DIN rail (IEC/EN 60715) base mounting piece for U version.

7 A180	For GN12 to GN25	1	0.011
7 A181	For GN32 to GN63	1	0.018

Adjustable door-coupling extension shaft, 70mm/2.8" long max^①.

7 APRBP	For GN12 to GN63	1	0.027
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Flexible rubber shroud^②.

7 A441	Ø 58mm/2.3", 70mm/2.8" long for GN12 to GN25 with 2 elements	1	0.045
7 A442	Ø 58mm/2.3", 92mm/3.6" long for GN12 to GN25 with 4 elements	1	0.065
7 A443	Ø 58mm/2.3", 125mm/4.9" long for GN12 to GN25 with 6 elements	1	0.063

IP40 face plate^①.

GX M1	48x48mm blank face plate	1	0.018
GX M2	65x65mm blank face plate	1	0.023

Padlockable handle^①.

GX A01	48x48mm yellow/red 0-1 padlockable handle for 2-position GN12-GN20-GN25	1	0.026
GX A01H	65x65mm yellow/red 0-1 padlockable handle for 2-position GN12-GN20-GN25	1	0.047
GX A11	65x65mm yellow/red 0-1 padlockable handle for 2-position GN32-GN40-GN63	1	0.047

Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in.

① Suitable for GN... types with IEC IP40 (standard supply). For GN...51 types, consult Customer Service for information; see contact details on inside front cover.

② Raises contact degree of protection from IEC IP00 to IP20.

③ Also suitable for GX series.

The diagram illustrates a 2D grid layout for a 3x3 grid. The grid is composed of 9 cells. The top row contains 'G', 'X', and a light blue cell with three dots. The middle row contains 'H', a light blue cell with four dots, and a light blue cell with two dots. The bottom row contains 'U', 'O', and 'P'. Below the grid, there are six labels: 'TYPE', 'RATING', 'ENLARGED FRONT PLATE', 'SCHEME', 'VERSION', and 'OPTIONALS'.

GX
IEC Protection:
Front = IP65
Contacts = IP20

GN
IEC Protection :
Front = IP40
Contacts = IP00

Insert H when an enlarged front plate is required

GX16 - GX20
GN12 - GN20 - GN25
from 48x48mm to 65x65mm

GX32 - GX40
GN32 - GN40 - GN63
from 65x65mm to 90x90mm

Front plate size:
48x48mm = 1.9x1.9in
65x65mm = 2.6x2.6in
90x90mm = 3.5x3.5in

GX	GN
16A	16A
20A	20A
32A	25A
40A	32A
	40A
	63A
	125A

e.g.
90
91
10
92
99
100

U = Front mount
O = Rear mount
P = In enclosure

11	Front mount, with handle operation, for central 22mm fixing
12	Front mount, with key operation, for central 22mm fixing
18	35mm DIN rail mounting (IEC/EN 60715)
25	Red-yellow padlockable handle
48	Modular service cover, 35mm DIN rail mounting
4V	Front mount, with 4-screw fixing
51	IP65 front protection, for GN only
65	Red-yellow padlockable handle
68	Door coupling
78	Door coupling
79	Door coupling, for GN125 only
88	Door coupling, with red-yellow padlockable handle
98	Door coupling, with red-yellow padlockable handle, for GN125 only

Consult technical instructions I230 on our website for additional information (contact configurations, schemes, plate indications, etc). Custom-built schemes are available on request: fill out the form on page 10-19.

Example for ordering:

GX16 53 P = Changeover switch, 16A, 3 poles, 3 positions, 3 wafers in 90x90mm, IEC IP65 enclosure.

GN25 H 90 U 51 = On-Off switch, 25A, 1 pole, 2 positions, 1 wafer, with enlarged 65x65mm front plate and IEC IP65 protection.

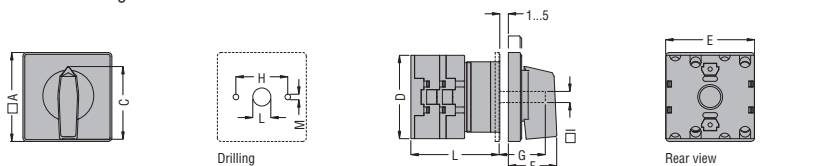
10

Rotary cam switches

Dimensions [mm (in)]

GX SERIES

Front mounting



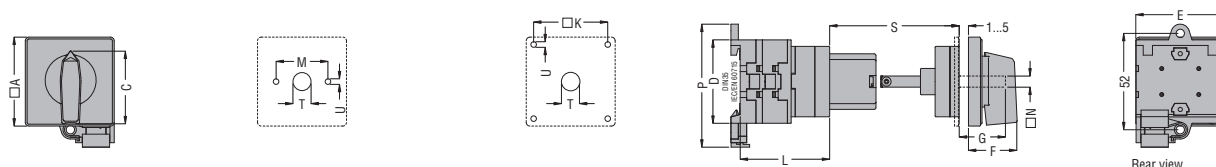
Type	Dimensions										L [mm (in)]					
	A	C	D	E	F	G	H	I	L	M	1 wafer	2 wafers	3 wafers	4 wafers	5 wafers	6 wafers
GX16 U	48 (1.89")	39.5 (1.55")	45 (1.77")	48 (1.89")	26.5 (1.04")	23.5 (0.92")	28 (1.1")	6 (0.24")	12 (0.47")	5 (0.20")	42.5 (1.67")	51 (2.00")	59.5 (2.34")	68 (2.67")	76.5 (3.01")	85 (3.35")
GX16 U25	48 (1.89")	31● (1.22")	45 (1.77")	48 (1.89")	34 (1.33")	23.5 (0.92")	28 (1.1")	6 (0.24")	12 (0.47")	5 (0.20")	39.5 (1.55")	48 (1.89")	56.5 (2.22")	65 (2.55")	73.5 (2.89")	82 (3.22")
GX20 U	48 (1.89")	39.5 (1.55")	45 (1.77")	48 (1.89")	26.5 (1.04")	23.5 (0.92")	28 (1.1")	6 (0.24")	12 (0.47")	5 (0.20")	42.5 (1.67")	51 (2.00")	59.5 (2.34")	68 (2.67")	76.5 (3.01")	85 (3.35")
GX20 U25	48 (1.89")	31● (1.22")	45 (1.77")	48 (1.89")	34 (1.33")	23.5 (0.92")	28 (1.1")	6 (0.24")	12 (0.47")	5 (0.20")	39.5 (1.55")	48 (1.89")	56.5 (2.22")	65 (2.55")	73.5 (2.89")	82 (3.22")
GX32 U	65 (2.56")	53 (2.09")	58 (2.28")	66 (2.59")	34.5 (1.36")	26 (1.02")	28 (1.1")	7 (0.27")	14 (0.55")	5 (0.20")	47.5 (1.87")	59.5 (2.34")	71.5 (2.81")	83.5 (3.29")	95.5 (3.75")	107.5 (4.23")
GX32 U25	65 (2.56")	45● (1.77")	58 (2.28")	66 (2.59")	38 (1.50")	26 (1.02")	28 (1.1")	7 (0.27")	14 (0.55")	5 (0.20")	48 (1.89")	60 (2.36")	72 (2.83")	84 (3.30")	96 (3.77")	108 (4.25")
GX40 U	65 (2.56")	53 (2.09")	58 (2.28")	66 (2.59")	34.5 (1.36")	26 (1.02")	28 (1.1")	7 (0.27")	14 (0.55")	5 (0.20")	47.5 (1.87")	59.5 (2.34")	71.5 (2.81")	83.5 (3.29")	95.5 (3.75")	107.5 (4.23")
GX40 U25	65 (2.56")	45● (1.77")	58 (2.28")	66 (2.59")	38 (1.50")	26 (1.02")	28 (1.1")	7 (0.27")	14 (0.55")	5 (0.20")	48 (1.89")	60 (2.36")	72 (2.83")	84 (3.30")	96 (3.77")	108 (4.25")

● Padlockable handle.

Door coupling O version

Coupling and front plate fixing on the door

Drilling for 4-screw wafer fixing on mounting plate



Type	Dimensions														L [mm (in)]					
	A	C	D	E	F	G	K	M	N	O	P	S	T	U	1 wafer	2 wafers	3 wafers	4 wafers	5 wafers	6 wafers
GX16 O68	48 (1.89")	39.5 (1.55")	45 (1.77")	48 (1.89")	26.5 (1.04")	23.5 (0.92")	—	28 (1.1")	6 (0.24")	52 (2.04")	66.5 (2.61")	48-58 (1.89"-2.28")	12 (0.47")	5 (0.20")	40 (1.57")	48.5 (1.90")	57 (2.24")	65.5 (2.57")	74 (2.91")	82.5 (3.24")
GX16 O88	48 (1.89")	31● (1.22")	45 (1.77")	48 (1.89")	34 (1.33")	23.5 (0.92")	36 (1.42")	—	6 (0.24")	52 (2.04")	66.5 (2.61")	45-55 (1.77"-2.16")	12 (0.47")	5 (0.20")	40 (1.57")	48.5 (1.90")	57 (2.24")	65.5 (2.57")	74 (2.91")	82.5 (3.24")
GX20 O68	48 (1.89")	39.5 (1.55")	45 (1.77")	48 (1.89")	26.5 (1.04")	23.5 (0.92")	—	28 (1.1")	6 (0.24")	52 (2.04")	66.5 (2.61")	48-58 (1.89"-2.28")	12 (0.47")	5 (0.20")	40 (1.57")	48.5 (1.90")	57 (2.24")	65.5 (2.57")	74 (2.91")	82.5 (3.24")
GX20 O88	48 (1.89")	31● (1.22")	45 (1.77")	48 (1.89")	34 (1.33")	23.5 (0.92")	36 (1.42")	—	6 (0.24")	52 (2.04")	66.5 (2.61")	45-55 (1.77"-2.16")	12 (0.47")	5 (0.20")	40 (1.57")	48.5 (1.90")	57 (2.24")	65.5 (2.57")	74 (2.91")	82.5 (3.24")
GX32 O68	65 (2.56")	53 (2.09")	58 (2.28")	66 (2.59")	34.5 (1.36")	26 (1.02")	—	28 (1.1")	7 (0.27")	68 (2.68")	78 (3.07")	48-58 (1.89"-2.28")	14 (0.55")	5 (0.20")	48.7 (1.91")	60.7 (2.38")	72.7 (2.86")	84.7 (3.33")	96.7 (3.80")	108.7 (4.27")
GX32 O88	65 (2.56")	45● (1.77")	58 (2.28")	66 (2.59")	38 (1.49")	26 (1.02")	48 (1.89")	—	7 (0.27")	68 (2.68")	78 (3.07")	45-55 (1.77"-2.16")	14 (0.55")	5 (0.20")	48.7 (1.91")	60.7 (2.38")	72.7 (2.86")	84.7 (3.33")	96.7 (3.80")	108.7 (4.27")
GX40 O78	65 (2.56")	53 (2.09")	58 (2.28")	66 (2.59")	34.5 (1.36")	26 (1.02")	—	28 (1.1")	7 (0.27")	68 (2.68")	78 (3.07")	48-58 (1.89"-2.28")	14 (0.55")	5 (0.20")	48.7 (1.91")	60.7 (2.38")	72.7 (2.86")	84.7 (3.33")	96.7 (3.80")	108.7 (4.27")
GX40 O98	65 (2.56")	45● (1.77")	58 (2.28")	66 (2.59")	38 (1.49")	26 (1.02")	48 (1.89")	—	7 (0.27")	68 (2.68")	78 (3.07")	45-55 (1.77"-2.16")	14 (0.55")	5 (0.20")	48.7 (1.91")	60.7 (2.38")	72.7 (2.86")	84.7 (3.33")	96.7 (3.80")	108.7 (4.27")

● Padlockable handle.

Flush mount Ø22mm

Flush mount Ø22mm

Modular mount

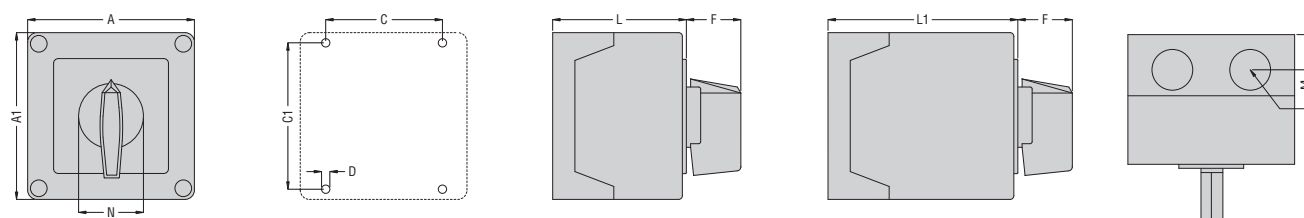
Type	L [mm (in)]			
	1 wafer	2 wafers	3 wafers	4 wafers
GX16	35 (1.37")	43.5 (1.71")	52 (2.04")	60.5 (2.38")

Type	L [mm (in)]			
	1 wafer	2 wafers	3 wafers	4 wafers
GX16	35 (1.37")	43.5 (1.71")	52 (2.04")	60.5 (2.38")

Type	L [mm (in)]		
	3 wafers	4 wafers	5 wafers
GX16	50 (1.97")	58.5 (2.30")	67 (2.64")

Mounting in enclosure

Drilling for enclosure fixing

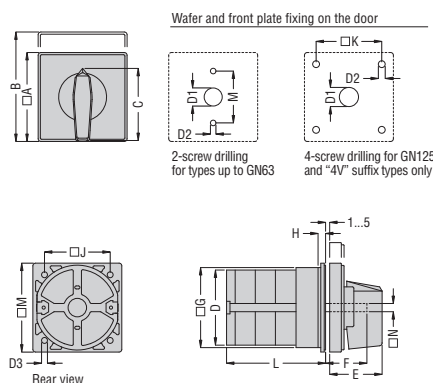


Type	Enclosure size	N° of wafers	L1	A	A1	C	C1	D	F	M	N	L	L1	Protection degree	Cable glands
GX16	90x90 (3.54"x3.54")	1-2	3-5	90 (3.54")	90 (3.54")	79 (3.11")	63 (2.48")	4.5 (0.17")	25● (0.98")	19 (0.74")	30 (1.18")	71.3 (2.80")	98.3 (3.87")	IP65	4 PG 16
GX20	110x110 (4.33"x4.33")	1-2	3-4	110 (4.33")	110 (4.33")	98.4 (3.87")	83 (3.26")	4.5 (0.17")	32● (1.25")	21 (0.82")	39.5 (1.55")	85.5 (3.36")	119.5 (4.70")	IP65	4 PG 21

● 28 (1.1") for ...P25 type.
● 38.5 (1.52") for ...P25 type.

GN SERIES

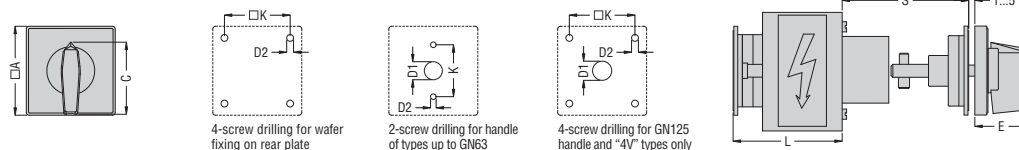
Front mount



Type	Dimensions														L					
	A	C	D	D1	D2	D3	E	F	G	H	J	K	M	N	1 wafer	2 wafers	3 wafers	4 wafers	5 wafers	6 wafers
GN12	48 (1.89")	39.5 (1.55")	38 (1.50")	12 (0.47")	5 (0.20")	4.3 (0.17")	26.5 (1.04")	23.5 (0.92")	38 (1.50")	5 (0.20")	36 (1.42")	36 (1.42")	48 (1.89")	6 (0.24")	32.5 (1.28")	42.1 (1.66")	51.7 (2.03")	61.3 (2.41")	70.9 (2.79")	80.5 (3.17")
GN12	65 (2.56")	53 (2.09")	38 (1.50")	14 (0.55")	5 (0.20")	4.3 (0.17")	34.5 (1.36")	26 (1.02")	58.5 (2.30")	5.5 (0.22")	48 (1.89")	48 (1.89")	65 (2.56")	7 (0.27")	39.2 (1.54")	48.8 (1.92")	58.4 (2.30")	68 (2.68")	77.6 (3.05")	87.2 (3.43")
GN20	48 (1.89")	39.5 (1.55")	39 (1.53")	12 (0.47")	5 (0.20")	4.3 (0.17")	26.5 (1.04")	23.5 (0.92")	38 (1.50")	5 (0.20")	36 (1.42")	36 (1.42")	48 (1.89")	6 (0.24")	33.1 (1.30")	42.8 (1.68")	52.5 (2.07")	62.2 (2.45")	71.9 (2.83")	81.6 (3.21")
GN20	65 (2.56")	53 (2.09")	39 (1.53")	14 (0.55")	5 (0.20")	4.3 (0.17")	34.5 (1.36")	26 (1.02")	58.5 (2.30")	5.5 (0.22")	48 (1.89")	48 (1.89")	65 (2.56")	7 (0.27")	39.8 (1.57")	49.5 (1.95")	59.2 (2.33")	68.9 (2.71")	78.6 (3.09")	88.3 (3.48")
GN25	48 (1.89")	39.5 (1.55")	43 (1.69")	12 (0.47")	5 (0.20")	4.3 (0.17")	26.5 (1.04")	23.5 (0.92")	38 (1.50")	5 (0.20")	36 (1.42")	36 (1.42")	48 (1.89")	6 (0.24")	37.5 (1.48")	51.1 (2.01")	64.7 (2.55")	78.2 (3.08")	91.9 (3.62")	105.5 (4.15")
GN25	65 (2.56")	53 (2.09")	43 (1.69")	14 (0.55")	5 (0.20")	4.3 (0.17")	34.5 (1.36")	20 (0.79")	58.5 (2.30")	5.5 (0.22")	48 (1.89")	48 (1.89")	65 (2.56")	7 (0.27")	44.2 (1.74")	57.8 (2.27")	71.4 (2.81")	85 (3.35")	98.6 (3.88")	112.2 (4.42")
GN32	65 (2.56")	53 (2.09")	56 (2.20")	14 (0.55")	5 (0.20")	4.3 (0.17")	34.5 (1.36")	26 (1.02")	58.5 (2.30")	5.5 (0.22")	48 (1.89")	48 (1.89")	65 (2.56")	7 (0.27")	40.9 (1.61")	54.5 (2.14")	68.1 (2.68")	81.7 (3.22")	95.3 (3.75")	108.9 (4.29")
GN40	65 (2.56")	53 (2.09")	58 (2.28")	14 (0.55")	5 (0.20")	4.3 (0.17")	34.5 (1.36")	26 (1.02")	58.5 (2.30")	5.5 (0.22")	48 (1.89")	48 (1.89")	65 (2.56")	7 (0.27")	43.5 (1.71")	58.6 (2.31")	73.7 (2.90")	88.8 (3.50")	103.9 (4.09")	119 (4.68")
GN63	65 (2.56")	53 (2.09")	62 (2.44")	14 (0.55")	5 (0.20")	4.3 (0.17")	34.5 (1.36")	26 (1.02")	58.5 (2.30")	5.5 (0.22")	48 (1.89")	48 (1.89")	65 (2.56")	7 (0.27")	47.3 (1.86")	65.4 (2.57")	83.5 (3.29")	101.6 (4.00")	119.7 (4.71")	137.8 (5.42")
GN125	90 (3.54")	70.5 (2.77")	86 (3.38")	16 (0.63")	6 (0.24")	5.3 (0.21")	41.5 (1.63")	28 (1.10")	84 (3.31")	7.5 (0.29")	68 (2.68")	68 (2.68")	90 (3.54")	9 (0.35")	67.3 (2.65")	96.4 (3.79")	125.5 (4.94")	154.6 (6.09")	183.7 (7.23")	212.8 (8.38")

Ø Dimensions for U06 and U25 versions

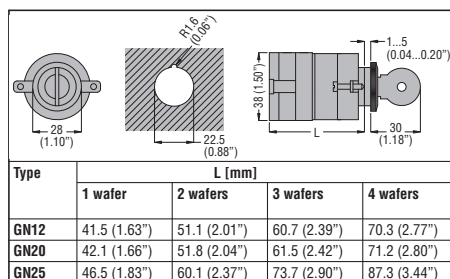
Door coupling



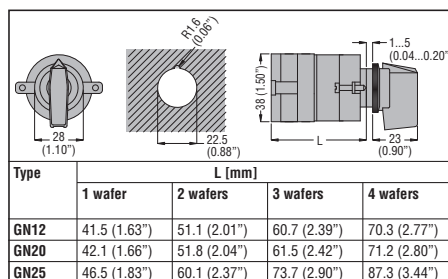
Type	Dimensions							L							
	A	C	D1	D2	E	K	S	1 wafer	2 wafers	3 wafers	4 wafers				
GN12-088	65 (2.56")	53 (2.09")	14 (0.55")	5 (0.20")	38.5 (1.52")	48 (1.89")	45-55 (1.77"-2.16")	37.58 (1.48")	47.1 (1.85")	56.7 (2.23")	66.3 (2.61")				
GN20-088	65 (2.56")	53 (2.09")	14 (0.55")	5 (0.20")	38.5 (1.52")	48 (1.89")	45-55 (1.77"-2.16")	38.1 (1.50")	47.8 (1.88")	57.5 (2.26")	67.2 (2.64")				
GN25-088	65 (2.56")	53 (2.09")	14 (0.55")	5 (0.20")	38.5 (1.52")	48 (1.89")	45-55 (1.77"-2.16")	42.5 (1.67")	56.1 (2.21")	65.7 (2.59")	83.2 (3.27")				
GN12-068	48 (1.89")	39.5 (1.56")	12 (0.47")	5 (0.20")	26.5 (1.04")	36 (1.42")	45-55 (1.77"-2.16")	37.5 (1.48")	47.1 (1.85")	56.7 (2.23")	66.3 (2.61")				
GN20-068	48 (1.89")	39.5 (1.56")	12 (0.47")	5 (0.20")	26.5 (1.04")	36 (1.42")	45-55 (1.77"-2.16")	38.1 (1.50")	47.8 (1.88")	57.5 (2.26")	67.2 (2.64")				
GN25-068	48 (1.89")	39.5 (1.56")	12 (0.47")	5 (0.20")	26.5 (1.04")	36 (1.42")	45-55 (1.77"-2.16")	42.5 (1.67")	56.1 (2.21")	65.7 (2.59")	83.2 (3.27")				
GN32 0...	65 (2.56")	53 (2.09")	14 (0.55")	5 (0.20")	34.5 (1.36")	48 (1.89")	45-55 (1.77"-2.16")	49.2 (1.94")	62.8 (2.47")	76.4 (3.00")	90 (3.54")				
GN40 0...	65 (2.56")	53 (2.09")	14 (0.55")	5 (0.20")	34.5 (1.36")	48 (1.89")	45-55 (1.77"-2.16")	45.9 (1.81")	59.5 (2.34")	73.1 (2.88")	86.7 (3.41")				
GN63 0...	65 (2.56")	53 (2.09")	14 (0.55")	5 (0.20")	34.5 (1.36")	48 (1.89")	45-55 (1.77"-2.16")	54.3 (2.14")	72.4 (2.85")	90.5 (3.56")	108.6 (4.27")				
GN125 0...	90 (3.54")	70.5 (2.78")	16 (0.63")	6 (0.24")	41.5 (1.63")	68 (2.68")	45-55 (1.77"-2.16")	74.8 (2.94")	103.9 (4.09")	133 (5.23")	162.1 (6.38")				

- ① 45 (1.77") for O88 and O98 types
- ② 65 (2.56") for O99 types
- ③ 38.5 (1.52") for O88 and O98 types
- ④ 49 (1.93") for O99 types
- ⑤ Padlockable handle.

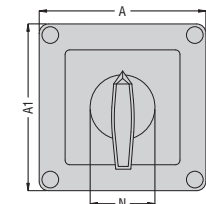
Front mount Ø22mm



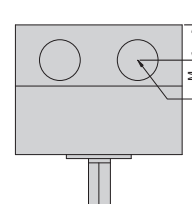
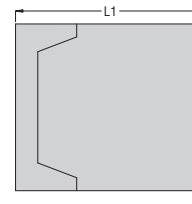
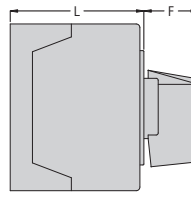
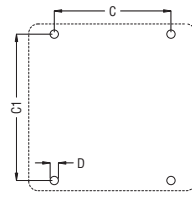
Front mount Ø22mm



Mounting in enclosure



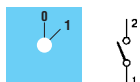
Drilling for enclosure fixing



Type	Enclosure size	N° of wafers		Dimensions										Protection degree	Conduits R
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
GN12	75x75 (2.95x2.95")	1-2	3-4	75 (2.95")	75 (2.95")	64 (2.51")	50 (1.96")	4.5 (0.17")	19 (0.74")	14 (0.55")	28 (1.10")	57.5 (2.26")	79.8 (3.14")	IP65	4 PG 13.5
GN20		1-2	3-4												
GN25		1	2-3												
GN20	90x90 (3.54x3.54")	1-3	4-6	90 (3.54")	90 (3.54")	63 (2.48")	79 (3.11")	4.5 (0.17")	25 (0.98")	19 (0.74")	30 (1.18")	71.3 (2.80")	98.3 (3.87")	IP65	4 PG 16
GN25		1-2	3-4												
GN32		1	2-3												
GN40		1	2-3												
GN32	110x110 (4.33x4.33")	1-3	4-5	110 (4.33")	110 (4.33")	98.4 (3.87")	83 (3.27")	4.5 (0.18")	32 (1.25")	21 (0.82")	39.5 (1.55")	85.5 (3.37")	119.5 (4.70")	IP65	4 PG 21
GN40		1-2	3-4												
GN63		1-2	3-4												
GN125		1	2												

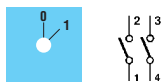
- ① 28 (1.1") for P25 type with padlockable handle.
- ② 38.5 (1.52") for P25 type with padlockable handle.

90 - One-pole ON/OFF switch



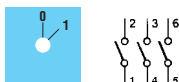
Number of wafers: 1
Switching angle: 60°

91 - Two-pole ON/OFF switch



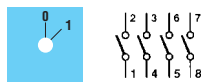
Number of wafers: 1
Switching angle: 60°

10 - Three-pole ON/OFF switch



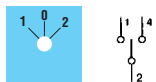
Number of wafers: 2
Switching angle: 60°

92 - Four-pole ON/OFF switch



Number of wafers: 2
Switching angle: 60°

51 - 1-pole changeover /
double throw switch with 0



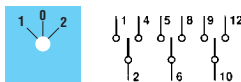
Number of wafers: 1
Switching angle: 60°

52 - 2-pole changeover /
double throw switch with 0



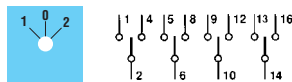
Number of wafers: 2
Switching angle: 60°

53 - 3-pole changeover /
double throw switch with 0



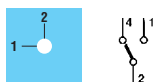
Number of wafers: 3
Switching angle: 60°

75 - 4-pole changeover /
double throw switch with 0



Number of wafers: 4
Switching angle: 60°

54 - 1-pole changeover /
double throw without 0



Number of wafers: 1
Switching angle: 90°

55 - 2-pole changeover /
double throw without 0



Number of wafers: 2
Switching angle: 90°

56 - 3-pole changeover /
double throw without 0



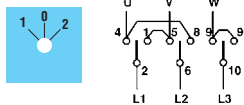
Number of wafers: 3
Switching angle: 90°

69 - 4-pole changeover /
double throw without 0



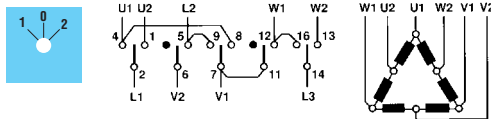
Number of wafers: 4
Switching angle: 90°

11 - 3-pole reversing switch



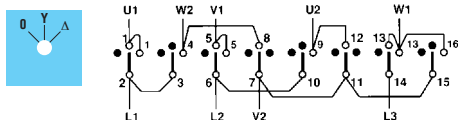
Number of wafers: 3
Switching angle: 60°

13 - Pole-changing switch with 0 (Dahlander)



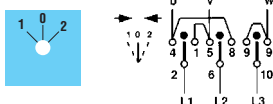
Number of wafers: 4
Switching angle: 60°

12 - Star-delta switch



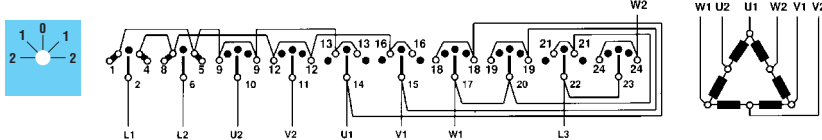
Number of wafers: 4
Switching angle: 60°

26 - Reversing switch, spring return to 0



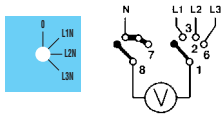
Number of wafers: 3
Switching angle: 30°

20 - Pole-changing switch with reversing (Dahlander)



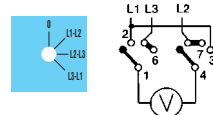
Number of wafers: 6
Switching angle: 30°

68 - Phase-neutral voltmeter switch



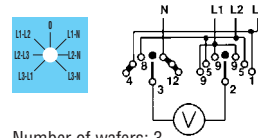
Number of wafers: 2
Switching angle: 30°

67 - Phase-phase voltmeter switch



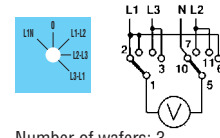
Number of wafers: 2
Switching angle: 30°

66 - Phase-phase phase-neutral voltmeter changeover / double throw



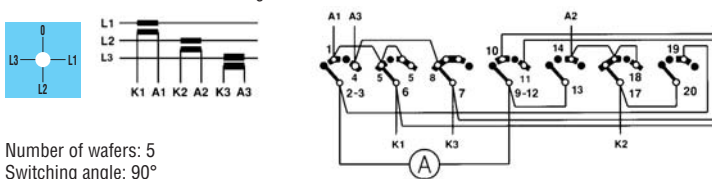
Number of wafers: 3
Switching angle: 30°

60 - Changeover / double throw switch
1 phase phase-neutral, 3 phase-phase voltages



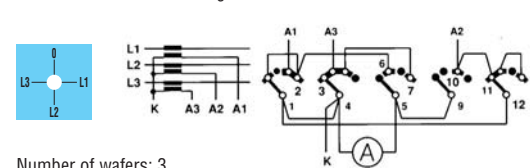
Number of wafers: 3
Switching angle: 30°

97 - Ammeter switch direct reading or via current transformer



Number of wafers: 5
Switching angle: 90°

98 - L1-L2-L3 current changeover / double throw switch



Number of wafers: 3
Switching angle: 90°

SELECTION GUIDE

The choice of a rotary cam switch and the relative type are based on the functional diagram and the type of application as well.

IEC standards provide a comprehensible and quick classification of the most frequent utilisation categories:

AC1: Connection and disconnection of non-inductive or slightly inductive loads ($\cos\varphi \geq 0.95$)

AC21: Resistance furnaces

AC3: Starting and switching off motors during running

AC23A: Switching of motor loads or other highly inductive loads

AC15: Control of electromagnetic loads

For DC applications, the rotary cam switches are used for the switching of minor loads or in control circuits, such as:

DC13: Control of electromagnets

DC21A: Switching of resistive loads

DC23: Switching of highly inductive loads

Other prescriptions and recommendations concerning the use of cam switches as auxiliary equipment of electrical machines are given in IEC/EN 60204-1 standards and specifically as given under utilisation.

UTILISATION

MAIN SUPPLY DISCONNECTING SWITCH WITH EMERGENCY-STOP OPERATION:

- Red operating handle with yellow background
- Lockable in open position (OFF).

EMERGENCY-STOP SWITCH

- Red operating handle with yellow background
- Independent operation and the breaking of the load circuit of switching devices before the opening of its main contacts
- Rated capacity is to sufficient in order to break the sum of the rated operating currents of all the connected equipment
- Breaking capacity equal to the current of the largest motor when stalled (locked rotor) together with the total of the normal running currents of the other motors or loads.

MAIN SUPPLY DISCONNECTING SWITCH

- Used to disconnect all live electrical equipment from the power supply circuit
- Contact clearance distance is to comply with IEC/EN 60947-3 standards
- Provided with a means in order to be locked in the OFF position
- Selection of current breaking according to IEC AC1 and AC21 utilisation categories.

TYPE			GX16	GX20	GX32	GX40	GN12	GN20	GN25	GN32	GN40	GN63	GN125		
Rated insulation voltage ^① Ui IEC/EN UL/CSA		V	690	690	690	690	690	690	690	690	690	690	690		
		V	600	600	600	600	600	600	600	600	600	600	600		
Rated impulse withstand voltage ^① Uimp IEC/EN 60947-3		kV	6	6	6	6	6	6	6	6	6	6	8		
Conventional free air thermal current Ith IEC/EN UL/CSA (general purpose use)		A	16	20	32	40	16	20	25	32	40	63	125		
		A	12	15	32	40	15	20	30	40	50	60	130		
Rated operating voltage (switch disconnect) ^①		V	440	440	440	440	480	480	480	480	480	480	690		
Operational impulse voltage (switch disconnect)		kV	4	4	4	4	4	4	4	4	4	4	6		
Maximum fuse size for short-circuit protection In (gG)	10kA	A	20	20	40	40	16	20	25	32	40	63	125		
	25kA	A	16	16	35	35	10	16	25	32	40	63	100		
	50kA	A	—	—	32	35	—	—	—	32	40	63	100		
	63kA	A	—	—	—	35	—	—	—	—	40	63	100		
Short-time withstand current Icw	1sec	A	250	250	800	800	200	250	400	800	1000	1700	2100		
Rated operational current Ie AC1/AC21A (IEC/EN)		A	16	20	32	40	12	20	25	32	40	63	125		
AC15 (IEC/EN)	110V	A	10	10	25	25	10	10	16	25	25	32	40		
	220-230V	A	8	8	20	22	8	8	12	20	22	25	28		
	380-400V	A	4	6	10	12	4	6	8	10	12	15	15		
	660-690V	A	3	3.7	5.5	7.5	1.5	1.5	2	2	2	4	5		
Motor power for switches in AC utilisation categories AC3 (IEC/EN)	220-230V	kW	3.5	3.7	7.5	7.5	2.5	3	5.5	7.5	8	11	18.5		
	3 phases	380-440V	kW	4.5	5.5	11	15	4	5.5	7.5	11	15	18.5	37	
		500-690V	kW	5.5	5.5	11	15	5.5	5.5	7.5	11	15	18.5	33	
	1 phase (2 poles)	110V	kW	0.55	0.75	1.8	2.2	0.8	0.8	1.5	2.2	3	3.7	5	
		220-230V	kW	1.5	1.8	3.5	4.4	1.5	2.2	3	4	6.5	6.5	11	
		380-440V	kW	2.2	3	5.5	7	2.2	3	5.5	6.5	8	11.5	15	
	AC23A (IEC/EN)	220-230V	kW	3.7	4	8	9	3	5	6.5	8	8	12.5	30	
		3 phases	380-440V	kW	6.5	7.5	15	18.5	5.5	7.5	11	15	18.5	30	45
			500-690V	kW	7.5	7.5	15	15	7.5	7.5	11	18.5	22	30	37
1 phase (2 poles)	110V	kW	0.75	0.75	2.2	3	0.8	0.8	1.5	2.2	3	3.7	5		
	220-230V	kW	1.8	2.2	3.5	5.2	1.7	2.5	3.7	4	6	7.5	11		
	380-440V	kW	3	3.5	6	7.5	3	3.7	5.5	7.5	11	12.5	15		

① Valid for systems with earthed neutral, overvoltage category III, pollution degree 3.

TYPE			GX16	GX20	GX32	GX40	GN12	GN20	GN25	GN32	GN40	GN63	GN125
Motor power for direct-on-line control (UL/CSA-DOL) 3 phases	115V	HP	1.5	1.5	3	5	1.5	1.5	3	5	5	7.5	15
	230V	HP	3	3	7.5	10	3	3	5	10	10	15	25
	480V	HP	5	5	15	15	—	—	10	15	20	25	50
	600V	HP	5	5	15	15	—	—	15	15	20	25	40
1 phase (2 poles)	115V	HP	0.75	0.75	1.5	2	0.75	0.75	1.5	2	2	5	7.5
	230V	HP	1	1.5	3	5	1	2	3	5	5	10	15
Motor power for switches in DC utilisation categories													
1 contact DC21A	48V	A	16	20	32	40	12	20	25	32	40	63	125
	60V	A	16	20	32	40	12	20	25	32	40	50	80
	110V	A	4	4	5	6	4	4	4	6	6	8	10
	220V	A	0.5	0.6	0.8	0.8	0.6	0.6	0.7	0.9	0.9	1	1.2
	440V	A	0.25	0.25	0.25	0.25	0.25	0.25	-	-	-	-	-
DC23A	24V	A	16(1)	20(1)	32(1)	40(1)	10(1)	20(1)	25(1)	32(1)	40(1)	50(1)	125(1)
	48V	A	16(2)	20(2)	32(2)	40(1)	10(2)	20(2)	25(2)	32(2)	40(2)	50(2)	125(2)
	60V	A	16(3)	20(3)	32(3)	40(3)	10(3)	20(3)	25(3)	32(3)	40(3)	50(3)	125(3)
	110V	A	10(3)	10(3)	15(3)	20(3)	5(3)	10(3)	12(3)	15(3)	20(3)	25(3)	50(3)
No. of contacts connected in series are indicated in brackets		220V	A	7(4)	8(4)	12(4)	12(4)	5(4)	8(4)	10(4)	12(4)	15(4)	20(4)
DC13	24V	A	16	20	32	40	12	20	25	32	40	63	125
	48V	A	14	16	25	32	10	16	20	25	32	40	100
	60V	A	12	12	16	16	8	12	16	16	16	28	50
	110V	A	0.8	1	3	3	1	1	1.5	3	3	3.3	4
	220V	A	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.5	-	-	-
	440V	A	0.15	0.15	0.15	0.15	0.15	0.15	-	-	-	-	-
Mechanical life		cycles	5x10 ⁶	5x10 ⁶	5x10 ⁶	5x10 ⁶	3x10 ⁶	5x10 ⁶	5x10 ⁶	5x10 ⁶	5x10 ⁶	5x10 ⁶	1x10 ⁶
Terminal screw		M	3	3	4	4	3	3	3.5	4	4	5	2x5
Tightening torque		max Nm	0.5	0.8	1.2	1.2	0.5	0.5	0.8	1.2	1.2	2	2
Conductor cross section	max. r/f	2 mm ²	2.5/2.5	2.5/2.5	10/6	10/6	2.5/2.5	2.5/2.5	4/4	6/4	10/6	16/10	50/50
		2 AWG	14/14	14/14	8/10	8/10	14/16	12/14	10/12	8/12	8/10	6/8	1/0 / 1/0
r: rigid/solid f: flexible/stranded	min. r/f	2 mm ²	0.5/0.5	0.5/0.5	1.5/1.5	1.5/1.5	0.5/0.5	0.5/0.5	0.5/0.5	1.5/1.5	1.5/1.5	2.5/2.5	2.5/2.5
		2 AWG	20/20	20/20	16/16	16/16	20/20	20/20	20/20	16/16	16/16	14/14	14/14
AMBIENT CONDITIONS													
Operating temperature		°C	-25...+55										
Storage temperature		°C	-40...+70										