



Product designation

Rotary cam  
switches

Product type designation

7GN25

**General characteristics**

Switching diagram

53 - Changeover  
switch 3 poles - 2  
speed motor  
starting with  
separate  
windings

N° of elements

3

Mounting form

P - Plastic  
enclosure with  
black handle

**Contact characteristics**

Rated insulation voltage  $U_i$

IEC/EN V 690

UL/CSA V 600

Rated impulse withstand voltage  $U_{imp}$

kV 6

Conventional free air thermal current  $I_{th}$

IEC/EN A 25

UL/CSA A 30

Rated operational voltage

V 480

Rated operational impulse voltage

kV 4

Maximum fuse size for short-circuit protection  $I_n$  (gG)

10kA A 25

15kA A 25

25kA A 25

Rated short time current  $I_{cw}$

1s kA 400

Conductivity

10/5 mA/V

Operational current  $I_e$  IEC/EN

AC1/AC21A

A 25

AC15

110V A 16

220/230V A 12

380/400V A 8

660/690V A 2

Rated operational power in AC

Three-phase AC-3

220/230V kW 5.5

380/440V kW 7.5

500/690V kW 7.5

Single-phase AC-3

110V kW 1.5

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 3 POLES 25A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

	220/230V	kW	3
	380/440V	kW	5.5
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Three-phase AC23A	220/230V	kW	6.5
	380/440V	kW	11
	500/690V	kW	11
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Single-phase AC23A	110V	kW	1.5
	220/230V	kW	3.7
	380/440V	kW	5.5
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Rated operational current in DC			
DC21A	48V	A	25
	60V	A	25
	110V	A	4
	220V	A	0.7
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DC23A (poles in series)	24V	A	25 (1)
	48V	A	25 (2)
	60V	A	25 (3)
	110V	A	12 (3)
	220V	A	10 (4)
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DC13	24V	A	25
	48V	A	20
	60V	A	16
	110V	A	1.5
	220V	A	0.4
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Power dissipation		W	1.1
<b>Mechanical features</b>			
Terminals screw			M3.5
Tightening torque for terminals max		Nm	0.8
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Conductor size			
AWG - Rigid cable	min	AWG	20
	Max	AWG	10
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AWG - Flexible cable	min	AWG	20
	Max	AWG	12
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Conductor size (IEC) - Flexible cable	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	4
<hr/>			
Conductor size (IEC) - Rigid cable	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	4
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Mechanical life		cycles	5x10 <sup>6</sup>
<b>UL technical data</b>			
Motor power for direct-on-line control			
for three-phase motor	120V	HP	3
	240V	HP	5
	480V	HP	10
	600V	HP	15
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for single-phase motor			

120V HP 1.5  
240V HP 3

**Ambient conditions**

Temperature

Operating temperature

min °C -25  
max °C +55

Storage temperature

min °C -40  
max °C +70

**Resistance & Protection**

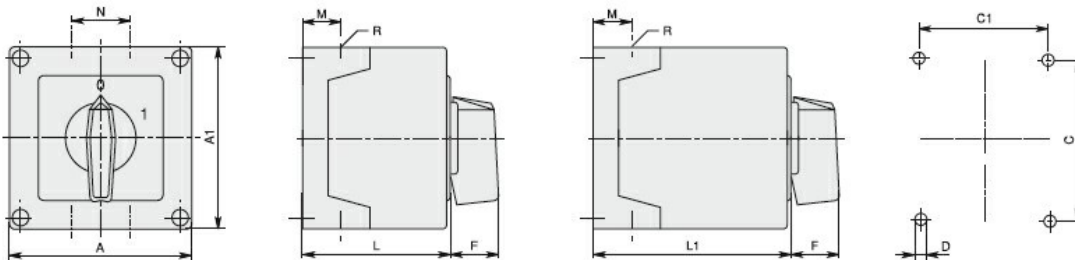
Frontal IP degree

IP65

Terminals IP degree

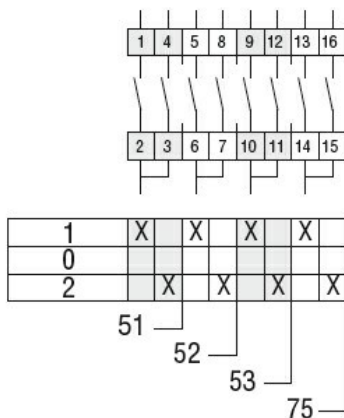
IP00

**Dimensions**



Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12	75x75	1-2	3-4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20		1-2	3-4												
7GN25		1	2-3												
7GN12	90x90	1-3	4-6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20		1-3	4-6												
7GN25		1-2	3-4												
7GN32		1-2	3-4												
7GN40		1	2-3												
7GN12	110x110	1-4	5-8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN20		1-4	5-8												
7GN25		1-3	4-5												
7GN32		1-3	4-5												
7GN40		1-2	3-5												
7GN63		1-2	3-4												
7GN32	125x175	1-3	4-5	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40		1-2	3-4												
7GN63		1-2	3-4												
7GN125		1	2												
7GN32	180x254	1-5	6-8	180	254	120	190	5.5	32	35	76	121	175	4xPG29 2xPG11	IP65
7GN40		1-4	5-7												
7GN63		1-3	4-6												
7GN125		1-2	3-4												

**Wiring diagrams**



**Certifications and compliance**

Compliance

IEC/EN/BS 60947-1  
IEC/EN/BS 60947-3  
IEC/EN/BS 60947-5-1

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC001105 - Off-load switch