

Product designation	Rotary cam switches
Product type designation	7GN40
General characteristics	
Switching diagram	53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
N° of elements	3
Mounting form	O - Rear mounting 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 40 UL/CSA A 50
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection I_n (gG)	10kA A 40 15kA A 40 25kA A 40 50kA A 40 63kA A 40
Rated short time current I_{cw}	1s kA 1000
Conductivity	10/5 mA/V
Operational current I_e IEC/EN	
AC1/AC21A	A 40
AC15	110V A 25 220/230V A 22 380/400V A 12 660/690V A 2
Rated operational power in AC	
Three-phase AC-3	220/230V kW 8 380/440V kW 15 500/690V kW 15
Single-phase AC-3	110V kW 3 220/230V kW 6.5 380/440V kW 8
Three-phase AC23A	220/230V kW 8 380/440V kW 18.5 500/690V kW 22

Single-phase AC23A	110V	kW	3
	220/230V	kW	6
	380/440V	kW	11
Rated operational current in DC			
DC21A	48V	A	40
	60V	A	40
	110V	A	6
	220V	A	0.9
DC23A (poles in series)	24V	A	40 (1)
	48V	A	40 (2)
	60V	A	40 (3)
	110V	A	20 (3)
	220V	A	12 (4)
DC13	24V	A	40
	48V	A	32
	60V	A	16
	110V	A	3
Power dissipation		W	2.0
Mechanical features			
Terminals screw			M4
Tightening torque for terminals max		Nm	1.2
Conductor size			
AWG - Rigid cable	min	AWG	16
	Max	AWG	8
AWG - Flexible cable	min	AWG	16
	Max	AWG	10
Conductor size (IEC) - Flexible cable	min	mm ²	1.5
	Max	mm ²	6
Conductor size (IEC) - Rigid cable	min	mm ²	1.5
	Max	mm ²	10
Mechanical life		cycles	5x10 ⁶
UL technical data			
Motor power for direct-on-line control			
for three-phase motor	120V	HP	5
	240V	HP	10
	480V	HP	20
	600V	HP	20
for single-phase motor	120V	HP	2
	240V	HP	5
Ambient conditions			
Temperature			
Operating temperature	min	°C	-25
	max	°C	+55

Storage temperature

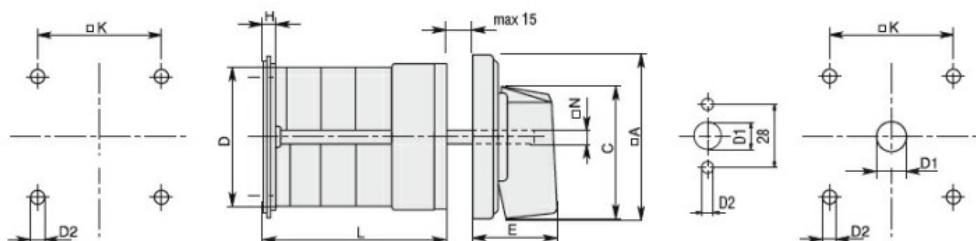
min °C -40
max °C +70

Resistance & Protection

Frontal IP degree IP40

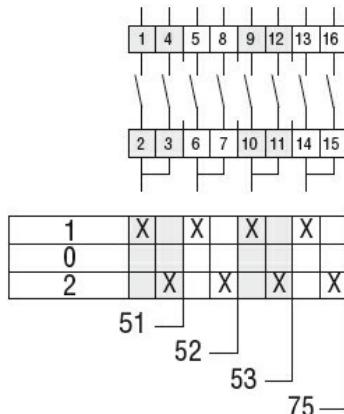
Terminals IP degree IP00

Dimensions



Series	Dimensions								L	Number of elements											
	□A	C	ØD	ØD2	E	H	□K	□N		1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8	
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8	
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1	
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6	
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6	
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4	
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	220.3	249.4	278.5	307.6	336.7	365.8	394.9	

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

cCSAus

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete