

Product designation

Rotary cam
switches

Product type designation

7GN20

General characteristics

Switching diagram

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

N° of elements

3

Mounting form

U65 - Front
mounting with
red/yellow handle
padlockable in 0
and protection
covers

Contact characteristics

Rated insulation voltage U_i

IEC/EN	V	690
UL/CSA	V	600

Rated impulse withstand voltage U_{imp}

kV	6
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Conventional free air thermal current I_{th}

IEC/EN	A	20
UL/CSA	A	20

Rated operational voltage

V	480
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Rated operational impulse voltage

kV	4
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Maximum fuse size for short-circuit protection I_n (gG)

10kA	A	20
15kA	A	16
25kA	A	16

Rated short time current I_{cw}

1s	kA	250
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Conductivity

10/5 mA/V

Operational current I_e IEC/EN

AC1/AC21A

A	20
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AC15

110V	A	10
220/230V	A	8
380/400V	A	6
660/690V	A	1.5

Rated operational power in AC

Three-phase AC-3

220/230V	kW	3
380/440V	kW	5.5
500/690V	kW	5.5

Single-phase AC-3

110V	kW	0.8
220/230V	kW	2.2
380/440V	kW	3

Three-phase AC23A

220/230V	kW	5
380/440V	kW	7.5

ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 3 POLES - 2 SPEED MOTOR
STARTING WITH SEPARATE WINDINGS 20A, FOR FRONT MOUNTING WITH RED/YELLOW
HANDLE PADLOCKABLE IN 0 AND PROTECTION COVERS, FRONT PLATE: 65X65

	500/690V	kW	7.5
Single-phase AC23A			
	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7
Rated operational current in DC			
DC21A			
	48V	A	20
	60V	A	20
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	20 (1)
	48V	A	20 (2)
	60V	A	20 (3)
	110V	A	10 (3)
	220V	A	8 (4)
DC13			
	24V	A	20
	48V	A	16
	60V	A	12
	110V	A	1
	220V	A	0.4
	440V	A	0.15
Power dissipation		W	0.8
Mechanical features			
Terminals screw			M3
Tightening torque for terminals max		Nm	0.5
Conductor size			
AWG - Rigid cable			
	min	AWG	20
	Max	AWG	12
AWG - Flexible cable			
	min	AWG	20
	Max	AWG	14
Conductor size (IEC) - Flexible cable			
	min	mm ²	0.5
	Max	mm ²	2.5
Conductor size (IEC) - Rigid cable			
	min	mm ²	0.5
	Max	mm ²	2.5
Mechanical life		cycles	5x10 ⁶
UL technical data			
Motor power for direct-on-line control			
for three-phase motor			
	120V	HP	1.5
	240V	HP	3
	480V	HP	7.5
	600V	HP	10
for single-phase motor			
	120V	HP	0.75
	240V	HP	2
Ambient conditions			

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Temperature

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
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Terminals IP degree	IP00
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ETIM classification

ETIM 8.0	EC001029 - Selector switch, complete
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