

Product designation	Rotary cam switches		
Product type designation	7GN20		
General characteristics			
Switching diagram	05 - ON/OFF switch 1 pole		
N° of elements	1		
Mounting form	U - Front mounting with black handle		
Contact characteristics			
Rated insulation voltage Ui	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	IEC/EN	A	20
	UL/CSA	A	20
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	10kA	A	20
	15kA	A	16
	25kA	A	16
Rated short time current Icw	1s	kA	250
Conductivity	10/5 mA/V		
Operational current Ie IEC/EN			
AC1/AC21A		A	20
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
	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

Temperature

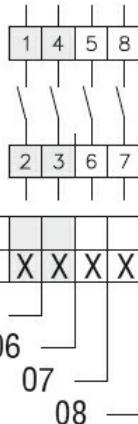
Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

min	°C	-40
-----	----	-----

Resistance & Protection	max	°C	+70
Frontal IP degree			IP40
Terminals IP degree			IP00
Dimensions			
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	EC001105 - Off-load switch
ETIM 8.0	