



ENERGY AND AUTOMATION

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	ا د			
		IEC/EN UL/CSA	V V	690 600
Rated impulse withstan	<u> </u>		kV	6
Conventional free air th	ermai current ith	IEC/EN UL/CSA	A A	20 20
Rated operational volta	ge		V	480
Rated operational impu			kV	4
Maximum fuse size for	short-circuit protection In (gG)	10kA 15kA 25kA	A A A	20 16 16
Rated short time currer	nt Icw	1s	kA	250
Conductivity				10/5 mA/V
Operational current le I	EC/EN AC1/AC21A			
	AC15		Α	20
	ACTS	110V 220/230V 380/400V 660/690V	A A A	10 8 6 1.5
Rated operational power	er in AC	000,0001	- , ,	1.0
	Three-phase AC-3	220/230V 380/440V	kW kW	3 5.5
		500/690V	kW	5.5
	Single-phase AC-3	110V 220/230V 380/440V	kW kW kW	0.8 2.2 3
	Three-phase AC23A	220/230V 380/440V	kW kW	5 7.5



Single-phase AC23A					
110V KW 0.8 220/230V KW 2.5 380/440V KW 2.5 380/440V KW 2.5 380/440V KW 3.7 KW 2.5 KW			500/690V	kW	7.5
10		Single-phase AC23A			
Rated operational current in DC DC21A		emgie phase / teze/ t	110\/	لا \٨/	0.8
Rated operational current in DC DC21A					
Rated operational current in DC DC21A 48V					
DC21A	Data Lance Carala		360/4401	KVV	3.1
ABV	Rated operational curi				
SOV		DC21A			
110V				Α	
DC23A (poles in series)			60V	Α	20
Mathematical International I			110V	Α	4
Mathematical International I			220V	Α	0.6
DC23A (poles in series)					
Part		DC23A (poles in series)			
ABV		BOZOT (poles in series)	24\/	۸	20 (1)
Conductor size (IEC) - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable Con					
110V					
DC13					
DC13					
Recommendation			220V	Α	8 (4)
A		DC13			
Conductor size (IEC) - Flexible cable Max			24V	Α	20
Conductor size (IEC) - Flexible cable Max			48V		
110V					
Power dissipation W 0.4 0.15					
Power dissipation W 0.8					
Power dissipation W 0.8					
Max			440V		
Terminals screw M3 Tightening torque for terminals max Nm 0.5				W	0.8
Tightening torque for terminals max					
AWG - Rigid cable	Terminals screw				M3
AWG - Rigid cable min AWG 20 Max AWG 12 AWG - Flexible cable					
Max	Tightening torque for t	erminals max		Nm	0.5
Max		erminals max		Nm	0.5
AWG - Flexible cable				Nm	0.5
AWG - Flexible cable min AWG 20 Max AWG 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 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 0.75 240V HP 2			min		
Max AWG 20 Max AWG 14				AWG	20
Max AWG 14		AWG - Rigid cable		AWG	20
Conductor size (IEC) - Flexible cable		AWG - Rigid cable	Max	AWG AWG	20 12
Max mm² 0.5 Max mm² 2.5		AWG - Rigid cable	Max min	AWG AWG	20 12 20
Max mm² 2.5		AWG - Rigid cable AWG - Flexible cable	Max min	AWG AWG	20 12 20
Conductor size (IEC) - Rigid cable		AWG - Rigid cable AWG - Flexible cable	Max min Max	AWG AWG AWG AWG	20 12 20 14
Mechanical life min Max mm² vm² mm² mm² mm² vm² vm² vm² vm² vm²		AWG - Rigid cable AWG - Flexible cable	Max min Max min	AWG AWG AWG AWG	20 12 20 14 0.5
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		AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min	AWG AWG AWG AWG	20 12 20 14 0.5
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		AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min	AWG AWG AWG AWG	20 12 20 14 0.5
Mechanical life cycles 5x106		AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm²	20 12 20 14 0.5 2.5
Motor power for direct-on-line control		AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	20 12 20 14 0.5 2.5
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	Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	20 12 20 14 0.5 2.5
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	Conductor size Mechanical life	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	20 12 20 14 0.5 2.5
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	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	20 12 20 14 0.5 2.5
240V HP 3 480V HP 7.5 600V HP 10 for single-phase motor 120V HP 0.75 240V HP 2	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	20 12 20 14 0.5 2.5
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600V HP 10 for single-phase motor 120V HP 0.75 240V HP 2	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	AWG AWG AWG AWG mm² mm² cycles	20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶
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120V HP 0.75 	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG AWG mm² mm² cycles	20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶
240V HP 2	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable c-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG AWG mm² mm² cycles	20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶
240V HP 2	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable c-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG AWG mm² mm² cycles	20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶
	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable c-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V 600V	AWG AWG AWG AWG mm² mm² cycles	20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5
	Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable c-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V 600V	AWG AWG AWG mm² mm² mm² cycles	20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5 10





Temperature

Operating	temperature
Operaniu	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
ETIM classification				
ETIM 8.0				EC001029 - Selector switch, complete