

7GN1205P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 16A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

Draduct designation			Enclosed rotary
Product designation			cam switch
Product type designation General characteristics			7GN12
Switching diagram			05 - ON/OFF switch 1 pole
N° of elements			1
Mounting form			P25 - Plastic enclosure with red/yellow 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	16
	UL/CSA	<u>A</u>	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	10kA	٨	4.0
	15kA	A A	16 10
	25kA	A	10
Rated short time current Icw	20171	7.	10
	1s	kA	200
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		А	16
AC15			
	110V	А	10
	220/230V	А	8
	380/400V	А	4
	660/690V	A	1.5
Rated operational power in AC			
Three-phase AC-3	000/0001/	1147	0.5
	220/230V	kW	2.5
	380/440V 500/690V	kW kW	4
Single-phase AC-3	500/690V	ĸvv	5.5
Single-phase AC-5	110V	kW	0.8
	220/230V	kW	1.5
	380/440V	kW	2.2
Three-phase AC23A	000,1101		
······	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	7.5
Single-phase AC23A			
	110V	kW	0.8
	220/230V	kW	1.7
Rated operational current in DC	380/440V	kW	3

Rated operational current in DC

7GN1205P25

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7GN1205P25

DC21A 48V A 12 60V A 12 110V A 4 220V A 0.6 440V A 0.25 DC23A (poles in series) 24V A 10 (1) 48V A 10 (2) 60V A 10 (2) 60V A 10 (2) 60V A 10 (3) 110V A 12 44V A 10 (2) 60V A 12 44V A 12 44V A 12 44V A 12 44V A 12 220V A 6.4 0C13 220V A 0.4 200 A Terminals screw M3 14 200V A 0.5 Conductor size MWG - Rigid cable Min 0.5 Max MWG 14 Conductor size (IEC) - Flexible cable min <mm²< td=""> 0.5 Max 0.5</mm²<>					
Book A 12 1100V A 4 220V A 0.6 440V A 0.25 DC3A (poles in series) 24V A 10 (1) 48V A 10 (2) 60V A 10 (2) 60V A 10 (2) 60V A 10 (3) 110V A 5 (3) 220V A 5 (4) DC13 24V A 10 60V A 1 44V A 10 60V A 1 220V A 0.4 Mechanical features W N 1 220V A 0.4 Terminals screw M3 1 20V A 0.5 Conductor size (rec) - Rigid cable min Nm 0.5 14 Conductor size (IEC) - Flexible cable min Max 740 14 Conductor size (IEC) - Flexible cable min mm² 2.5 14		DC21A			
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Intervention 110V A 4 220V A 0.6 440V A 0.25 DC23A (poles in series) 24V A 10 (1) 48V A 10 (2) 60V A 10 (2) 60V A 5 (3) 220V A 5 (3) DC13 24V A 12 48V A 10 60V A 8 100 60V A 8 110V A 12 48V A 10 60V A 8 100 60V A 8 110V A 0.4 440V A 10 60V A 8 110V A 0.5 100 A 10 60V A 8 100 A 0.15 100 100 100 100 100 100 100 100 100 100 100 100 10			60V	А	12
4400 A 0.6 4400 A 0.25 DC23A (poles in series) 24V A 10 (1) 480 A 10 (2) 60V A 10 (3) 60V A 5 (3) 220V A 5 (4) DC13 24V A 12 48V A 10 (3) 60V A 8 110V A 1 20V A 0.4 48V A 10 60V A 8 110V A 1 220V A 0.15 W 0.4 40V A 0.15 Power dissipation W 0.8 W A 0.15 W AdvG - Rigid cable Min AWG 20 M A 0.5 Conductor size (IEC) - Flexible cable min AWG 20 Max AWG 12 AWG - Flexible cable min mm ² 0.5 Max M 14					
440V A 0.25 DC23A (poles in series) 24V A 10 (1) 48V A 10 (2) 60V A 10 (3) 110V A 5 (3) 220V A 5 (4) DC13 24V A 10 60V A 8 100 60V A 0.4 480V 400V A 0.5 15 Power dissipation W 0.5 15 Power dissipation star Nm 0.5 12 A MG2 - Rigid cable min MWG 20 Interninals screw Mix AWG 12 AWG					
DC23A (poles in series) 24V A 10 (1) 48V A 10 (2) 60V A 10 (3) 60V A 5 (4) 220V A 5 (4) DC13 24V A 12 48V A 10 (3) 60V A 12 48V A 10 60V A 8 DC13 24V A 12 48V A 10 60V A 8 060V A 0.4 48V A 0.4 48V A 0.4 Power dissipation W 0.8 Mechanical features W 0.8 Terminals screw M3 Tightening torque for terminals max Nm 0.5 Max Conductor size MVG - Rigid cable min< AWG 20					
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$\begin{tabular}{ c c c c } \hline & 400 & A & 0.15 \\ \hline Power dissipation & W & 0.8 \\ \hline Mechanical features & M \\ \hline Terminals screw & M \\ \hline Tightening torque for terminals max & N M & 0.5 \\ \hline Conductor size & W G - Rigid cable & $$M$ & M & M G & 20 \\ \hline Max & AW G & 12 \\ \hline AW$ G - Rigid cable & $$M$ & AW G & 12 \\ \hline AW$ G - Flexible cable & $$m$ & AW G & 20 \\ \hline Max & AW G & 12 \\ \hline AW$ G - Flexible cable & $$m$ & AW G & 20 \\ \hline Max & AW G & 14 \\ \hline Conductor size (IEC) - Flexible cable & $$m$ & $$m$ m2 & 0.5 \\ \hline Max & $$m$ m2 & 2.5 \\ \hline Conductor size (IEC) - Rigid cable & $$m$ & $$m$ m2 & 2.5 \\ \hline Conductor size (IEC) - Rigid cable & $$m$ & $$m$ m2 & 2.5 \\ \hline Mechanical life & $$cycles & $$x10^{\circ}$ \\ \hline UL technical data & $$m$ m2 & 2.5 \\ \hline Motor power for direct-on-line control $$for three-phase motor $$$120V $$ HP $$ 1.5 \\ \hline 240V $$ HP $$ 3 \\ \hline for single-phase motor $$$$120V $$ HP $$ 0.5 \\ \hline 240V $$ HP $$ 3 \\ \hline for single-phase motor $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$			110V	А	1
Power dissipation W 0.8 Mechanical features M3 Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 AWG 20 Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Max Max 14 Conductor size (IEC) - Rigid cable min mm² 2.5 Max mm² 2.5 5 Mechanical life cycles 3x10° UL technical data unm² 2.5 15 Motor power for direct-on-line control for three-phase motor for single-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 Ambient conditions Temperature min °C -25 max °C +55 Storage temperature min °C -25 -40 ma			220V	А	0.4
Power dissipation W 0.8 Mechanical features M3 Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 AWG 20 Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Max Max 14 Conductor size (IEC) - Rigid cable min mm² 2.5 Max mm² 2.5 5 Mechanical life cycles 3x10° UL technical data unm² 2.5 15 Motor power for direct-on-line control for three-phase motor for single-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 Ambient conditions Temperature min °C -25 max °C +55 Storage temperature min °C -25 -40 ma			440V	А	0.15
Machanical features M3 Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 0.5 14 Conductor size (IEC) - Rigid cable min mm² 0.5 Mechanical life cycles 3x10* 0 Ut technical data mm² 2.5 14 Motor power for direct-on-line control for three-phase motor 120V HP 1.5 Identified 120V HP 0.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient condition	Power dissipation				
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Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 AWG - Rigid cable min AWG 20 Max AWG 12 AWG - Rigid cable min AWG - 20 Max AWG - 20 Max AWG - Flexible cable min AWG - 20 Max AWG - 20 Max AWG - Flexible cable min AWG - 20 Max MWG - 20 Conductor size (IEC) - Flexible cable min mm² - 0.5 Max mm² - 2.5 Conductor size (IEC) - Rigid cable min mm² - 2.5 Conductor size (IEC) - Rigid cable min mm² - 2.5 Conductor size (IEC) - Rigid cable UL technical data UL technical data cycles - 3x10° UL technical data Motor power for direct-on-line control for three-phase motor 120V HP - 1.5 240V HP - 1.5 240V HP - 1.5 240V HP - 1 1 Ambient conditions Temperature Min - °C - 25 -25 max - °C + 55 -55 -55 -55 Storage temperature min - °C - 40 max					M3
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$\begin{tabular}{ c c c c c } \hline AWG - Flexible cable & min & AWG & 20 & Max & AWG & 14 & & & & & & & & & & & & & & & & & $					
$\begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $			IVIAX	AWG	12
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		AWG - Flexible Cable			00
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$\begin{tabular}{ c c c c c } \hline min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline \hline Conductor size (IEC) - Rigid cable & & & & \\ \hline min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline Mechanical life & & & & & \\ \hline Max & mm^2 & 2.5 \\ \hline Max & mm^2 & 0.5 \\ \hline Max & mm^2 & 0.5 \\ \hline Max & for single-phase motor & & & \\ \hline 120V & HP & 1.5 \\ \hline 240V & HP & 3 \\ \hline for single-phase motor & & & \\ \hline 120V & HP & 3 \\ \hline for single-phase motor & & & \\ \hline 120V & HP & 0.5 \\ \hline 240V & HP & 1 \\ \hline \hline Ambient conditions & & & \\ \hline Temperature & & & \\ \hline Temperature & & & \\ \hline Dperating temperature & & & \\ \hline min & ^{\circ}C & -25 \\ \hline max & ^{\circ}C & +55 \\ \hline Storage temperature & & \\ \hline min & ^{\circ}C & -40 \\ \hline max & ^{\circ}C & +70 \\ \hline \end{tabular}$			Max	AWG	14
$\begin{tabular}{ c c c c c c c c c c c c c c c c } \hline Max & mm^2 & 2.5 \\ \hline \hline Conductor size (IEC) - Rigid cable & $$min $$mm^2$ $0.5 $$Max $$mm^2$ $2.5 $$ \\ \hline Max & mm^2$ $2.5 $$ \\ \hline Max & mm^2$ $2.5 $$ \\ \hline Max & mm^2 $2.5 $$ \\ \hline Max & mm^2 $2.5 $$ \\ \hline Max & mm^2 $2.5 $$ \\ \hline Max & mm^2 $ \\ \hline Max & mm^2 $ \\ \hline Max & $		Conductor size (IEC) - Flexible cable			
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$\begin{array}{c c c c c c c } & & & & & & & & & & & & & & & & & & &$			Max	mm²	2.5
Max mm² 2.5 Mechanical life cycles 3x10° UL technical data		Conductor size (IEC) - Rigid cable			
Mechanical life cycles 3x10° UL technical data Motor power for direct-on-line control 120V HP 1.5			min	mm²	
UL technical data V Motor power for direct-on-line control for three-phase motor $120V$ HP 1.5 $240V$ HP 3 for single-phase motor $120V$ HP 0.5 $240V$ HP 1 Ambient conditions $120V$ HP 0.5 Temperature Operating temperature min $^{\circ}C$ -25 Max $^{\circ}C$ $+55$ $5torage temperature$ min $^{\circ}C$ -40			Max	mm²	2.5
UL technical data Motor power for direct-on-line control for three-phase motor $120V$ HP $240V$ HP for single-phase motor $120V$ HP $120V$	Mechanical life			cycles	3x10 ⁶
for three-phase motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	UL technical data				
120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient conditions 240V HP 1 Temperature 0 1 1 Operating temperature min °C -25 max °C +55 Storage temperature min °C -40 max °C +70	Motor power for direct	-on-line control			
120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient conditions 240V HP 1 Temperature 0 1 1 Operating temperature min °C -25 max °C +55 Storage temperature min °C -40 max °C +70	-				
240VHP3for single-phase motor120VHP0.5120VHP11Ambient conditionsTemperature </td <td></td> <td></td> <td>120V</td> <td>HP</td> <td>1.5</td>			120V	HP	1.5
for single-phase motor $120V HP 0.5$ $240V HP 1$ Ambient conditions Temperature Operating temperature $ \begin{array}{ccccccccccccccccccccccccccccccccccc$					
120V 240VHP HP0.5 0.5 		for single-phase motor	2.07		
240V HP 1 Ambient conditions			120\/	HP	0.5
Ambient conditions Temperature Operating temperature min °C max °C Storage temperature min °C min °C storage temperature min °C max °C +55					
Temperature Min °C -25 max °C +55 Storage temperature min °C -40 max °C +70	Ambient conditione		240 V	111	۱
min °C -25 max °C +55 Storage temperature min °C -40					
max °C +55 Storage temperature min °C -40 max °C +70		Operating temperature			
Storage temperature min °C -40 max °C +70			min	°C	-25
min °C -40 max °C +70			max	°C	+55
min °C -40 max °C +70		Storage temperature			
max °C +70			min	°C	-40
	Resistance & Protecti	on			

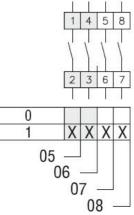


7GN1205P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 16A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

ENERGY AND AUTOMATION

Terminals IP degree IP00									IP65 IP00					
Dimensions				L L			R		F	• ● 	 	o		
Series Enclosure	Number of elements	A	A1	С	C1	Dimer D	isions F	M	N	1	L1	Cable entry	Protection degree	
7GN12 75x75 7GN20 7GN25	1-2 3-4 1-2 3-4 1 2-3	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65	
7GN12 90x90 7GN20 7GN25 7GN32 7GN40	1-3 4-6 1-3 4-6 1-2 3-4 1-2 3-4 1-2 3-4 1 2-3	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65	
7GN12 110x110 7GN20 7GN25 7GN32 7GN40 7GN63	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65	
7GN32 125x175 7GN40 7GN63 7GN125	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65	
7GN32 7GN40 7GN63 7GN125	1 - 5 6 - 8 1 - 4 5 - 7 1 - 3 4 - 6 1 - 2 3 - 4	180	254	120	190	5.5	32	35	76	121	175	4xPG29 2xPG11	IP65	

Wiring diagrams



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Certifications and con	npliance	
Compliance		
	IEC/EN/BS 60947-1	
	IEC/EN/BS 60947-3	
	IEC/EN/BS 60947-5-1	
Certificates		
	EAC	
ETIM classification		
ETIM 8.0		EC001029 - Selector switch, complete

7GN1205P25