

## **7GN1293P** ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 3 POLES 16A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

Product designation				Enclosed rotary
-				cam switch
Product type designati General characteristics				7GN12
Switching diagram	5			93 - Multi-step 1-
N° of elements				2-3 3 poles 5
				P - Plastic
Mounting form				enclosure with black handle
Contact characteristics	3			
Rated insulation voltag	le Ui			
		IEC/EN	V	690
		UL/CSA	V	600
Rated impulse withstar	• •		kV	6
Conventional free air th	nermal current Ith			
		IEC/EN	A	16
		UL/CSA	<u>A</u>	15
Rated operational volta			V	480
Rated operational imp			kV	4
Maximum fuse size for	r short-circuit protection In (gG)		•	4.0
		10kA 15kA	A	16
		25kA	A A	10 10
Rated short time curre	nt low	ZJKA	A	10
Raled Short line cure	THE ICW	1s	kA	200
Conductivity		13	NA.	10/5 mA/V
Operational current le	IEC/EN			10/3 11/4/ 1
operational current le	AC1/AC21A			
			А	16
	AC15			
		110V	А	10
		220/230V	А	8
		380/400V	А	4
		660/690V	А	1.5
Rated operational pow	er in AC			
	Three-phase AC-3			
		220/230V	kW	2.5
		380/440V	kW	4
		500/690V	kW	5.5
	Single-phase AC-3			
		110V	kW	0.8
		220/230V	kW	1.5
		380/440V	kW	2.2
	Three-phase AC23A			2
		220/230V	kW	3
		380/440V	kW	5.5
	Single phase AC22A	500/690V	kW	7.5
	Single-phase AC23A	110V	L\\/	0.0
		220/230V	kW kW	0.8 1.7
		220/230V 380/440V	kw	3
Rated operational curr	ont in DC	300/440V	ΝVV	5

## Rated operational current in DC

7GN1293P



7GN1293P ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 3 POLES 16A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

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           60V         A         10 (3)         110V         A         5 (3)           220V         A         5 (4)         0.6         60V         A         10 (3)           110V         A         12         48V         A         10 (2)         60V         A         8           110V         A         12         48V         A         10 (3)         110V         A         1           220V         A         0.4         40V         A         0.5         5           Forminals screw         M3         1         10V         A         1           220V         A         0.5         1         1         1           Conductor size         MVG - Rigid cable         min         AWG 5 12         1           AWG - Flexible cable					
Book         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 (3)           110V         A         5 (3)         20V         A         12           48V         A         10 (3)         10V         A         5 (3)           DC13         24V         A         12         48V         A         10           60V         A         1         220V         A         14         14           60V         A         1         220V         A         14           60V         A         1         220V         A         14           220V         A         0.4         3         3         3           100V         A         1         220V         A         0.4           Mechanical fieletures         Min         Min         3         3           Terminals screw         Mix         Min         0.5         3         3		DC21A			
Into iteration         1100/200         A         4           2200/200         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 (2)           60V         A         5 (3)           220V         A         5 (4)           DC13         24V         A           220V         A         5 (4)           000V         A         8           110V         A         10           60V         A         8           110V         A         10           60V         A         8           110V         A         10           60V         A         10           60V         A         10           60V         A         10           120V         A         0.4           120V         A         0.4           120V         A         0.5           Conductor size         MWG         12				Α	12
4400         A         0.6           4400         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 (2)           110V         A         12         48V         A         10           60V         A         1         220V         A         0.4           48V         A         0.15         W         A         0.4           40V         A         0.15         W         A         0.5           Conductor size         MWG - Rigid cable         Min         AWG         20         Max         AWG         14           Conductor size (IEC) - Flexible cable         min         mm²         2.5         Max         MWG         2.5         Max         MWG         2.5				Α	12
440V         A         0.25           DC23A (poles in series)         24V         A         10 (1)           48V         A         10 (2)           60V         A         10 (2)           110V         A         5 (3)           220V         A         5 (4)           DC13         24V         A         10           60V         A         8         100           60V         A         8         110V           48V         A         10         60V           60V         A         8         110V           200V         A         0.4         48V           440V         A         0.4         48V           100         A         0.4         48V           440V         A         0.5         5           Conductor size         W         0.5         5           Conductor size         Max         AWG         12         AWG           AWG - Rigid cable         min         Mix         20         12           AWG - Stigid cable         min         AWG         21         12           AWG - Stigid cable         min         mm² <td></td> <td></td> <td></td> <td>Α</td> <td>4</td>				Α	4
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         12         48V         A         10 (3) (10V         A         5 (4)           DC13         24V         A         12         48V         A         10           00V         A         8         110V         A         1         24V         A         12           48V         A         10         60V         A         8         110V         A         1           2000         A         0.4         440V         A         0.4         440V         A         0.4           Mechanical features         W0         A         0.5         Conductor size         MMS         12           AWG - Rigid cable         min         AWG         20         Max         AWG         12           AWG - Flexible cable         min         Mm         0.5         Conductor size (IEC) - Flexible cable         min         mm²         0.5           Max         AWG - Flexible cable         min         mm²         0.5         Max <td></td> <td></td> <td>220V</td> <td>Α</td> <td>0.6</td>			220V	Α	0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			440V	Α	0.25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		DC23A (poles in series)			
60v         A         10 <sup>(3)</sup> 110v         A         5(3)           220v         A         12           48v         A         10           60v         A         8           110v         A         5(4)           24v         A         12           48v         A         10           60v         A         8           110v         A         1           220v         A         0.4           440v         A         0.15           Power dissipation         W         0.8           Mechanical features         M3         Tightening forque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         Max         AWG         1           AWG - Rigid cable         min         AWG         20           AWK - Rigid cable         Max         MMK         14           Conductor size (IEC) - Flexible cable         min         mm <sup>2</sup> 2.5           Conductor size (IEC) - Rigid cable         min         mm <sup>2</sup> 2.5           Motor power for direct-on-line control         for single-phase motor         120v         HP         3 <td></td> <td></td> <td>24V</td> <td>Α</td> <td>10 (1)</td>			24V	Α	10 (1)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Α	
Image: constraint of the second sec					. ,
DC13         24V         A         12           48V         A         10         60V         A         8           110V         A         1         220V         A         0.4           440V         A         0.15         20V         A         0.4           Mechanical leatures         M         0.8         Mechanical reactions         M3           Tightening torque for terminals max         Nm         0.5         Conductor size         AWG - Rigid cable         min         AWG 20           Max         AWG 12         AWG 12         AWG 12         AWG 12         AWG 12         AWG 12           AWG - Flexible cable         min         mm 72         0.5         Max         MWG 14         AWG 14           Conductor size (IEC) - Flexible cable         min <mm²< td="">         0.5         Max         Mm²         2.5           Conductor size (IEC) - Flexible cable         min<mm²< td="">         0.5         Max         Mm²         2.5           VL technical life        </mm²<></mm²<>				А	5 (3)
24/         A         12           48V         A         10           60V         A         8           110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.8           Mechanical features         W         0.8           Terminals screw         M3           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         Max           AWG - Flexible cable         Max         AWG           Conductor size (IEC) - Flexible cable         min         mm²           Conductor size (IEC) - Flexible cable         min< mm²			220V	Α	5 (4)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		DC13			
60V         A         8           110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.8           Mechanical features         M3           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         Max           AWG - Flexible cable         min         AWG 20           Max         AWG 20         Max           AWG - Flexible cable         min         AWG 20           Max         AWG 12         AWG 20           AWG - Flexible cable         min         mm² 2.5           Conductor size (IEC) - Flexible cable         min         mm² 2.5           Conductor size (IEC) - Rigid cable         min         mm² 2.5           Mechanical life         cycles         3x10°           UL technical data         120V         HP         1.5           Motor power for direct-on-line control         120V         HP         3           for single-phase motor         120V         HP         3           if or single-phase motor         120V         HP         0.5				Α	
110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.8           Mechanical features         W         0.8           Terminals screw         M3           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         Min           AWG - Flexible cable         min         AWG         12           AWG - Flexible cable         min         AWG         20           Max         AWG         12         AWG         14           Conductor size (IEC) - Flexible cable         min         mm²         2.5           Conductor size (IEC) - Flexible cable         min         mm²         2.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mechanical life         cycles         310*         0.5           UL technical data         240V         HP         3           for single-phase motor         120V         HP         1.5           240V         HP <td< td=""><td></td><td></td><td></td><td>Α</td><td>10</td></td<>				Α	10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Α	8
$\begin{tabular}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $				А	
Power dissipation         W         0.8           Mechanical features         M3           Terminals screw         M3           Conductor size         Nm         0.5           Conductor size         AWG - Rigid cable         min         AWG 20           Max         AWG 12         AWG 12         AWG 12           AWG - Flexible cable         min         AWG 20           Max         AWG 14         Conductor size (IEC) - Flexible cable         min         mm² 2.5           Conductor size (IEC) - Flexible cable         min         mm² 2.5         Max         Max           Mechanical life         cycles         3x10°         UL technical data         mm² 2.5           Motor power for direct-on-line control for three-phase motor         120V         HP         1.5           240V         HP         3         for single-phase motor         120V         HP         1.5           240V         HP         1.5         240V					
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 - Flexible cable         min         AWG         20           Max         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           Motor power for direct-on-line control         for single-phase motor         yum²         2.5            VL technical data         yum²         yum²            Motor power for direct-on-line control         for single-phase motor           120V         HP         1.5               Amblent conditions         yum²              Temperature         Operating temperature         min         °C         <			440V	Α	0.15
Terminals screw         M3           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         min         AWG 20           Max         AWG 12         Max         AWG 12           AWG - Flexible cable         min         AWG 20           Max         AWG 12         AWG 14           Conductor size (IEC) - Flexible cable         min         mm² 0.5           Max         Max         Max         Max           Conductor size (IEC) - Rigid cable         min         mm² 2.5           Conductor size (IEC) - Rigid cable         min         mm² 2.5           Mechanical life         cycles         3x10°           UL technical data         cycles         3x10°           UL technical data         for single-phase motor         120V         HP         1.5           240V         HP         3         for single-phase motor         120V         HP         0.5           Ambient conditions         transingle-phase motor         120V         HP         0.5         240V         HP         1           Ambient conditions         transingle-phase motor         120V         HP         0.5         240V         HP         1	Power dissipation			W	0.8
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         12         AWG - Flexible cable         min         AWG - 20           Max         AWG         14         Conductor size (IEC) - Flexible cable         min         mm² - 0.5           Max         mm² - 0.5         Max         mm² - 2.5         Conductor size (IEC) - Rigid cable         min         mm² - 2.5           Mechanical life         cycles         3x10°         UL technical data         cycles         3x10°           UL technical data          cycles         3x10°         cycles         3x10°           UL technical data          cycles         3x10°         cycles         3x10°           Motor power for direct-on-line control         for single-phase motor         120V         HP         1.5           240V         HP         3         for single-phase motor         120V         HP         1           Ambient conditions          min         °C         -25         max         °C	Mechanical features				
Conductor size         AWG - Rigid cable         min         AWG         20           Max         AWG         12           AWG - Flexible cable         min         AWG         20           Max         AWG         14         0           Conductor size (IEC) - Flexible cable         min         mm²         0.5           Max         mm²         2.5         0           Conductor size (IEC) - Rigid cable         min         mm²         0.5           Max         mm²         2.5         0         0           Motor power for direct-on-line control for three-phase motor         cycles         3x10°         0           UL technical data           1.5         240V         HP         1.5           AWO - phase motor         120V         HP         1.5         240V         HP         1           Ambient conditions          120V         HP         0.5         240V         HP         1           Ambient conditions           120V         HP         1         1           Ambient conditions            2         2         5           Temperature	Terminals screw				M3
AWG - Rigid cable         min         AWG         20           Max         AWG         12           AWG - Flexible cable         min         AWG         20           Max         AWG         14         20           Conductor size (IEC) - Flexible cable         min         mm²         0.5           Max         Mm²         2.5         2.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mechanical life         vscl         2.5         3.10°           UL technical data         mm²         2.5         3.10°           Motor power for direct-on-line control for three-phase motor         120V         HP         1.5           120V         HP         1.5         240V         HP         3           for single-phase motor         120V         HP         0.5         240V         HP         1           Ambient conditions         120V         HP         0.5         240V         HP         1           Ambient conditions         120V         HP         1.5         240V         HP         1           Ambient conditions         120V         HP         1.5         240V         HP         1	Tightening torque for to	erminals max		Nm	0.5
$\begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c } \hline \hline \begin{tabular}{ c c } \hline$	Conductor size				
$\begin{tabular}{ c c c c } \hline Max & AWG & 12 \\ \hline AWG - Flexible cable & min & AWG & 20 \\ \hline Max & AWG & 14 \\ \hline Conductor size (IEC) - Flexible cable & min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline Conductor size (IEC) - Rigid cable & min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline Conductor size (IEC) - Rigid cable & cycles & 3x10^s \\ \hline UL technical life & cycles & 3x10^s \\ \hline UL technical data & cycles & 3x10^s \\ \hline UL technical data & cycles & 3x10^s \\ \hline UL technical data & for three-phase motor & for three-phase motor & for three-phase motor & 120V & HP & 1.5 \\ \hline Ambient conditions & tycles & tycles$		AWG - Rigid cable			
AWG - Flexible cablemin MWGAWG 20 Max $AWG$ - Flexible cablemin MaxAWG AWG14Conductor size (IEC) - Flexible cablemin Mm²0.5 Max Mm²2.5Conductor size (IEC) - Rigid cablemin mm²mm² 2.50.5 Max mm²0.5 Max mm²Mechanical lifecycles3x10°UL technical datacycles3x10°UL technical datacycles3x10°UL technical datacycles3x10°Motor power for direct-on-line control for three-phase motor120V 240VHP HP1.5 240VAmbient conditionstor single-phase motor120V 			min	AWG	20
$\begin{tabular}{ c c c c c } \hline \end{tabular} & \end{tabuar} & \end{tabular} & \end{tabular} $			Max	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			
$\begin{tabular}{ c c c c c c } \hline Conductor size (IEC) - Flexible cable & min mm^2 0.5 & Max mm^2 2.5 & Conductor size (IEC) - Rigid cable & min mm^2 0.5 & Max mm^2 2.5 & Max m^2 2$			min	AWG	20
$\begin{tabular}{ c c c c c c } \hline & & & & & & & & & & & & & & & & & & $			Max	AWG	14
$\begin{tabular}{ c c c c c c } \hline & & & & & & & & & & & & & & & & & & $		Conductor size (IEC) - Flexible cable			
$\begin{tabular}{ c c c c c c c } \hline Conductor size (IEC) - Rigid cable & min mm^2 0.5 & Max mm^2 2.5 & Max mm^$			min	mm²	0.5
$\begin{array}{c c c c c c c } & & & & & & & & & & & & & & & & & & &$			Max	mm²	2.5
$\begin{array}{c c c c c c c } & & & & & & & & & & & & & & & & & & &$		Conductor size (IEC) - Rigid cable			
$\begin{tabular}{ c c c c } \hline Max & mm^2 & 2.5 \\ \hline Mechanical life & & & & & & & & & \\ \hline Ut echnical data & & & & & & & & & \\ \hline Motor power for direct-on-line control & & & & & & & & & \\ & for three-phase motor & & & & & & & & & \\ \hline & & & & & & & & &$			min	mm²	0.5
UL technical data         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       0.5       240V       HP       1         Ambient conditions         Temperature         Min       °C       -25         Max       °C       +55         Storage temperature         min       °C       -40         max       °C       +70			Max	mm²	
UL technical data         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       0.5       240V       HP       1         Ambient conditions         Temperature         Min       °C       -25         Max       °C       +55         Storage temperature         min       °C       -40         max       °C       +70	Mechanical life			cycles	3x10 <sup>6</sup>
for three-phase motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	UL technical data				
for three-phase motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	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 motor120VHP0.5120VHP1Ambient conditions240VHP1Temperature055Min°C-2525max°C+555Storage temperaturemin°C-40max°C+701			120V	HP	1.5
120V 240VHP HP0.5 0.5 240VAmbient conditionsImage: Constraint of the second sec			240V	HP	
120V 240VHP HP0.5 0.5 240VAmbient conditionsImage: Constraint of the second sec		for single-phase motor			
240V       HP       1         Ambient conditions			120V	HP	0.5
Temperature       Operating temperature         min       °C       -25         max       °C       +55         Storage temperature       min       °C       -40         max       °C       +70			240V	HP	1
Temperature       Operating temperature         min       °C       -25         max       °C       +55         Storage temperature       min       °C       -40         max       °C       +70	Ambient conditions				
Operating temperature min °C -25 max °C +55 Storage temperature min °C -40 max °C +70					
min         °C         -25           max         °C         +55           Storage temperature         min         °C         -40           max         °C         +70		Operating temperature			
max °C +55 Storage temperature min °C -40 max °C +70			min	°C	-25
Storage temperature min °C -40 max °C +70					
min °C -40 max °C +70		Storage temperature			
max °C +70			min	°C	-40
	Resistance & Protection	on			

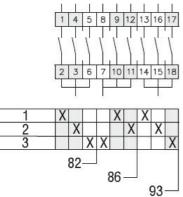
7GN1293P



ENERGY AND AUTOMATION

## **7GN1293P** ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 3 POLES 16A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

Frontal IF	o degre	е														IP65	
Terminals IP degree														IP00			
Dimensio	ons	,															
		· · · · · ·				F.			R 		F.	+ + +		°	i K		
Series	Enclosure	Number of	f elements					Dimer					14	Cable	Protection degree		
7GN12		L 1-2	L1 3 - 4	A	A1	C	C1	D	F	М	N	L	L1	entry	degree		
7GN20	75x75	1-2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65		
7GN25 7GN12	00.00	1	2-3 4-6														
7GN12	90x90	1-3	4-6														
7GN25		1-2	3-4	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65		
7GN32		1-2	3 - 4	100			100										
7GN40		1	2 - 3														
7GN12	110x110	1-4	5 - 8	-	-			-			-			-			
7GN20		1-4	5 - 8														
7GN25	1	1-3	4 - 5	110	110	98.4	00	4.5	20	01	20 F	05.5	119.5	4-0001	IP65		
7GN32		1-3	4 - 5	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IPbb		
7GN40	1	1-2	3 - 5														
7GN63	1	1-2	3 - 4														
7GN32	125x175	1-3	4 - 5		1												
7GN40		1-2	3 - 4	105	175									4xPG21	IDOF		
7GN63	1	1-2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	2xPG11	IP65		
7GN125		1	2														
7GN32	180x254	1-5	6 - 8														
7GN40	100ALU-7	1-4	5 - 7	100		100								4xPG29	10.00		
7GN63	1	1-3	4 - 6	180	254	120	190	5.5	32	35	76	121	175	2xPG11	IP65		
7GN125		1-2	3-4														
Wiring dia	agrams													;	•		



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

7GN1293P