

# **7GN63840** ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3-4-5, 1 POLE 32A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 65X65MM

			Rotary cam
Product designation			switches
Product type designation			7GN63
General characteristics			
Switching diagram			84 - Multi-step 1- 2-3-4-5 1 pole
N° of elements			3
Mounting form			O - Rear
Mounting form			mounting with black handle
Contact characteristics			
Rated insulation voltage Ui			
	IEC/EN	V	690
	UL/CSA	<u>V</u>	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	IEC/EN	٨	62
	UL/CSA	A A	63 60
Rated operational voltage	01/03/	 V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	А	63
	15kA	А	63
	25kA	А	63
	50kA	А	63
	63kA	A	63
Rated short time current Icw			1000
Conductivity	1s	kA	1600
Conductivity Operational current le IEC/EN			10/5 mA/V
AC1/AC21A			
		А	63
AC15			
	110V	А	32
	220/230V	А	25
	380/400V	А	15
	660/690V	A	4
Rated operational power in AC			
Three-phase AC-3	220/2201/		44
	220/230V 380/440V	kW kW	11 18.5
	500/690V	kW	18.5
Single-phase AC-3	000/0001		10.0
	110V	kW	3.7
	220/230V	kW	6.5
	380/440V	kW	11.5
Three-phase AC23A			
	220/230V	kW	12.5
	380/440V	kW	30
	500/690V	kW	30
Single-phase AC23A	110V	kW	3.7
	220/230V	kW	3.7 7.5
	220/200 V	IX V V	1.0

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Mechanical features       M5         Terminals screw       M5         Tightening torque for terminals max       Nm       2			380/440V	kW	12.5
48v         A         63           60v         A         50           110v         A         8           220v         A         1           DC23A (poles in series)         24v         A         50 (1)           48v         A         50 (2)         60v         A         50 (2)           60v         A         50 (2)         60v         A         50 (2)           60v         A         50 (2)         60v         A         50 (2)           60v         A         50 (2)         60v         A         63           48v         A         40         60v         A         63           60v         A         63         48v         A         40           60v         A         28         10v         A         33           Power dissipation         M         V         3.4         Mechanical leatures         MS         Tightening torque for terminals max         Nm         2           Conductor size         Fixible cable         min         min         2.5         Mex         MVG         8         14           Max         AWG         16         Max         16	Rated operational cur				
60V         A         50           110V         A         1           DC23A (poles in series)         24V         A         50 (1)           48V         A         50 (2)         60V         A         50 (2)           60V         A         50 (2)         60V         A         50 (2)           60V         A         50 (2)         60V         A         50 (2)           60V         A         55 (3)         220V         A         63           20V         A         63         48V         A         60           60V         A         28         110V         A         3.3           Power dissipation         W         3.4         448V         A         40           60V         A         3.4         448V         A         40           60V         A         3.4         448V         A         40           60         Max         Nm         2         2         2           Conductor size         Max         AWG         14         448         448         448         448         448         448         448         448         448         448 <t< td=""><td></td><td>DC21A</td><td></td><td>_</td><td></td></t<>		DC21A		_	
Intervention         100/2         A         8           2200/2         A         1           DC23A (poles in series)         24//4         A         50 (2)           600/4         A         50 (3)         100//4         A         50 (2)           600/4         A         55 (3)         100//4         A         55 (3)           DC13         24//4         A         63         48//4         A         40           600/7         A         3.3         100//4         A         3.3           Power dissipation         W         3.4         48//4         A         40           600/7         A         3.3         Modentalization         MS         110//4         A         3.3           Power dissipation         W         3.4         Modentalization         MS         110//4         A         3.4           Mechanical features         W         3.4         Modentalization         MS         14         MS         14           Max         AWG         14         Max         AWG         8         16           Conductor size (IEC) - Flexible cable         min         mm²         1.6         16           <					
Image: series biology         A         1           DC23A (poles in series)         24V         A         50 (1)           48V         A         50 (2)         60V         A         25 (3)           0C03         220V         A         15 (4)         100V         A         25 (3)           DC13         24V         A         63         48V         A         40           60V         A         28         110V         A         28           110V         A         23         28         10V         A         28           Power dissipation         W         3.3         10V         A         28           Terminals screw         MS         70         10         14           Conductor size         AWG - Rigid cable         MS         14           Max         AWG         14         14         14           AWG - Rigid cable         min         MWG         14           Max         AWG         10         10         10           Conductor size (IEC) - Flexible cable         min         mm²         16           Maty         MMG         14         10         10         10 <td></td> <td></td> <td></td> <td></td> <td></td>					
DC23A (poles in series)         24V         A         50 (1)           48V         A         50 (2)         60V         A         55 (3)           110V         A         25 (3)         220V         A         15 (4)           DC13         24V         A         63         48V         A         40           600V         A         28         100V         A         28           Power dissipation         W         A         3.3         Power dissipation to retreminate max         Nm         2           Conductor size         MC1 - Rigid cable         Min         AVG         14           Max         AWG         6         AWG         14           Max         AWG         6         AWG         8           Conductor size (IEC) - Flexible cable         min         AWG         14           Max         mm²         1.5         4           Max         mm²         1.5         4           Conductor size (IEC) - Flexible cable         min         mm²         2.5           Max         mm²         1.6         1         1           Motor power for directon-line control         cycles         5x10*         1					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			2200	A	1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		DC23A (poles in series)	241/	۸	50 (1)
60V         A         50 (3) 110V         A         55 (3) 220V           DC13         24V         A         63 48V         A         40 60V         A         23           Power dissipation         W         3.3         W         A         22           Terminals corew         M5         Tightening torque for terminals max         Nm         2           Conductor size         AWG - Rigid cable         Max         AWG         6           AWG - Flexible cable         min         Mm²         2.5           Conductor size (IEC) - Flexible cable         min         mm²         2.5           Max         Max         8         2.5         1.0           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Max         mm²         16         14           Max         mm²         16         14           Use tonical fife         cycles         5x10°         10           Use tonical fata         mm²         16         16         16           Max         mm²         16         16         14         14           Use tonical fata         mm²         16         120V         HP         15					
Image: constraint of the					
Image: constraint of the					
DC13         24V         A         63           46V         A         40         60V         A         28           110V         A         3.3         Power dissipation         W         3.4           Mechanical features         W         3.4         Mechanical features         MIS           Tightening torque for terminals max         Nm         2         Conductor size         MIS           Conductor size         AWG - Rigid cable         min         AWG         14           AWG - Flexible cable         min         AWG         14           AWG - Flexible cable         min         mm²         10           Conductor size (IEC) - Flexible cable         min         mm²         10           Conductor size (IEC) - Rigid cable         min         mm²         16           Mechanical life         cycles         5x10°         16           Motor power for direct-on-line control         for three-phase motor         120V         HP         7.5           240V         HP         15         480V         48         25           for single-phase motor         120V         HP         25         10           Ambient conditions         120V         HP					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		DC13			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2010	24V	А	63
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					
Power dissipation         W         3.4           Mechanical features         M5           Terminals screw         Ms           Tightening torque for terminals max         Nm         2           Conductor size         AWG - Rigid cable         min         AWG         14           Max         AWG         6         AWG         14           Max         AWG         8         Conductor size (IEC) - Flexible cable         min         mm²         2.5           Max         mm²         10         Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mack and m²         16         cycles         5x10*         UL         Max         mm²         16           Motor power for direct-on-line control for three-phase motor         120V         HP         7.5         240V         HP         15           480V         HP         10         480V         HP         10           Ambient conditions         Temperature         Coperating temper			60V	А	
Mechanical features         M5         Tightening torque for terminals max       Nm       2         Conductor size         AWG - Rigid cable         min       AWG       14         Max       AWG       6         AWG - Flexible cable         min       AWG       14         Max       AWG       8         Conductor size (IEC) - Flexible cable         min       mm²       2.5         Max       mm²       10         Conductor size (IEC) - Rigid cable       Image: min²       120V       HP       7.5			110V	А	3.3
Mechanical features         M5         Tightening torque for terminals max       Nm       2         Conductor size         AWG - Rigid cable         min       AWG       14         Max       AWG       6         AWG - Flexible cable         min       AWG       14         Max       AWG       8         Conductor size (IEC) - Flexible cable         min       mm²       2.5         Max       mm²       10         Conductor size (IEC) - Rigid cable       Image: min²       120V       HP       7.5	Power dissipation			W	
Tightening torque for terminals max NM 2 Conductor size AWG - Rigid cable	Mechanical features				
Conductor size       AWG - Rigid cable       min       AWG       14         Max       AWG       6         AWG - Flexible cable       min       AWG       14         Max       AWG       8       6         Conductor size (IEC) - Flexible cable       min       mm²       2.5         Max       mm²       10       7         Conductor size (IEC) - Rigid cable       min       mm²       2.5         Max       mm²       16       7         Mechanical life       cycles       5x10°       7         UL technical data       mm²       16       7         Motor power for direct-on-line control for three-phase motor       120V       HP       7.5         240V       HP       15       480V       480V       48         Ambient conditions         Temperature         Operating temperature         Operating temperature       min       °C       -25         Max       °C       -25       55         Storage temperature       min       °C       -25         min       °C       -25       55         Temperature       min       °C <t< td=""><td>Terminals screw</td><td></td><td></td><td></td><td>M5</td></t<>	Terminals screw				M5
$\begin{tabular}{ c c c c } & AWG & Rigid cable & & & & & & & & & & & & & & & & & & &$	Tightening torque for	terminals max		Nm	2
$\begin{tabular}{ c c c c } \hline min & AWG & 14 \\ \hline Max & AWG & 6 \\ \hline AWG - Flexible cable & & & & \\ \hline Max & AWG & 8 \\ \hline \hline Conductor size (IEC) - Flexible cable & & & & \\ \hline min & mm^2 & 2.5 \\ \hline Max & mm^2 & 10 \\ \hline \hline Conductor size (IEC) - Rigid cable & & & & \\ \hline \hline Conductor size (IEC) - Rigid cable & & & & \\ \hline \hline Mechanical life & & & & & \\ \hline \hline Conductor size (IEC) - Rigid cable & & & & \\ \hline \hline Mechanical life & & & & & \\ \hline UL technical data & & & & & \\ \hline Motor power for direct-on-line control & & & & \\ \hline for three-phase motor & & & & \\ \hline for three-phase motor & & & & \\ \hline for three-phase motor & & & & \\ \hline \hline for single-phase motor & & & & \\ \hline \hline for single-phase motor & & & & \\ \hline \hline Ambient conditions & & & & \\ \hline Temperature & & & \\ \hline Operating temperature & & & & \\ \hline \hline Motor power for direct & & & & \\ \hline for storage temperature & & & & \\ \hline \hline Methem temperature & & & & \\ \hline \hline \hline for targe temperature & & & & \\ \hline \hline min & {}^{\circ}C & -25 \\ \hline max & {}^{\circ}C & -40 \\ \hline \hline \end{array}$	Conductor size				
$\begin{tabular}{ c c c c } \hline Max & AWG & 6 \\ \hline AWG - Flexible cable & & & & & & & & & & & & & & & & & & &$		AWG - Rigid cable			
AWG - Flexible cable       min       AWG       14         Max       AWG       8         Conductor size (IEC) - Flexible cable       min       mm²       2.5         Max       mm²       10         Conductor size (IEC) - Rigid cable       min       mm²       2.5         Max       mm²       10         Conductor size (IEC) - Rigid cable       min       mm²       2.5         Max       mm²       16         Mechanical life       cycles       5x10°         UL technical data       cycles       5x10°         Motor power for direct-on-line control for three-phase motor       120V       HP       7.5         240V       HP       15       480V       HP       25         for single-phase motor       120V       HP       3       240V       HP       3         Ambient conditions       240V       HP       10       10       10         Ambient conditions       min       °C       -25       12       10         Temperature       Operating temperature       min       °C       -25       10         Storage temperature       min       °C       -25       15       15   <			min	AWG	14
$\begin{tabular}{ c c c c c c c c c c c } \hline & & & & & & & & & & & & & & & & & & $			Max	AWG	6
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		AWG - Flexible cable			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			min		14
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Max	AWG	8
Max         mm²         10           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Max         mm²         16           Mechanical life         cycles         5x10°           UL technical data           Motor power for direct-on-line control for three-phase motor         120V         HP         7.5           240V         HP         15         480V         HP         25           600V         HP         25         600V         HP         25           for single-phase motor         120V         HP         3         240V         HP         10           Ambient conditions         Temperature         0         120V         HP         3         240V         HP         10           Ambient conditions         Temperature         min         °C         -25         max         °C         +55           Storage temperature         min         °C         -25         max         °C         +55		Conductor size (IEC) - Flexible cable			
Conductor size (IEC) - Rigid cableminmm²2.5Maxmm²16Mechanical lifecycles $5x10^{\circ}$ UL technical dataMotor power for direct-on-line control for three-phase motor120VHP7.5240VHP15480VHP25600VHP25500VHP3Operating temperaturemin°C-25Motor for single-phase motorI20VHP3240VHP3240VHP3240VHP3240VHP3C+55Storage temperaturemin°C-25min°C-25max°C+55Storage temperaturemin°C-25min°C-40					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Max	mm²	10
Max         mm²         16           Mechanical life         cycles         5x10°           UL technical data		Conductor size (IEC) - Rigid cable		2	
Mechanical life cycles 5x10 <sup>e</sup> UL technical data Motor power for direct-on-line control for three-phase motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$					
UL technical data       Motor power for direct-on-line control         for three-phase motor       120V       HP       7.5         240V       HP       15       480V       HP       25         for single-phase motor       120V       HP       3       240V       HP       3         for single-phase motor       120V       HP       3       240V       HP       10         Ambient conditions       Temperature         Operating temperature       min °C -25         Motor strange temperature       min °C +55         Storage temperature       min °C -40			Max		
Motor power for direct-on-line control for three-phase motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$				cycles	5X10°
for three-phase motor         120V         HP         7.5           240V         HP         15           480V         HP         25           for single-phase motor         120V         HP         3           240V         HP         10           Ambient conditions         120V         HP         10           Ambient conditions         5         5         5           Temperature         min         °C         -25           Storage temperature         min         °C         +55		t en line control			
120V       HP       7.5         240V       HP       15         480V       HP       25         600V       HP       25         for single-phase motor       120V       HP       3         240V       HP       10       10         Ambient conditions	motor power for direc				
240V         HP         15           480V         HP         25           600V         HP         25           for single-phase motor         120V         HP         3           240V         HP         10         10           Ambient conditions		for thee-phase motor	120\/	ЦD	75
480V 600VHP 25for single-phase motor120V 240VHP 10Ambient conditionsTemperatureOperating temperaturemin x°C x+55Storage temperaturemin x°C x+55					
600V       HP       25         for single-phase motor       120V       HP       3         120V       HP       10         Ambient conditions         Temperature       Uperating temperature         0perating temperature       min °C -25         max       °C       +55         Storage temperature       min °C -40					
for single-phase motor 120V HP 3 240V HP 10 Ambient conditions Temperature Operating temperature					
120V       HP       3         240V       HP       10         Ambient conditions         Temperature         Operating temperature         min °C -25         max °C +55         Storage temperature         min °C -40		for single-phase motor	0001		20
240V       HP       10         Ambient conditions		for single phase motor	120V	HP	3
Ambient conditions Temperature Operating temperature min °C -25 max °C +55 Storage temperature min °C -40					
Temperature Operating temperature min °C -25 max °C +55 Storage temperature min °C -40	Ambien <u>t conditions</u>				- -
Operating temperature min °C -25 max °C +55 Storage temperature min °C -40					
min °C -25 max °C +55 Storage temperature min °C -40		Operating temperature			
			min	°C	-25
Storage temperature min °C -40					
min °C -40		Storage temperature			
max °C +70			min	°C	-40
			max	°C	+70

7GN63840

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



## 7GN6384O ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3-4-5, 1 POLE 32A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 65X65MM

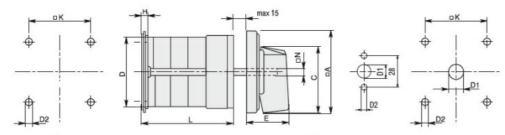
IP40 IP00

Resistance & Protection

# Frontal IP degree

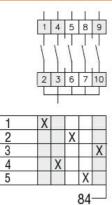
Terminals IP degree

Dimensions



Series	Dimensions							L Number of elements												
Series	□A	С	ØD	ØD2	E	Н	۵K	۵N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	220.3	249.4	278.5	307.6	336.7	365.8	394.9

### 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		
		EC001029 -
ETIM 8.0		Selector switch,

complete

#### 7GN63840