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ISO 9001 Certified Quality System

## Cod. DS0203BFL6

# Standard and Approvals

- · Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- · Suitable as Manual Motor Controller



# Technical characteristics: Body

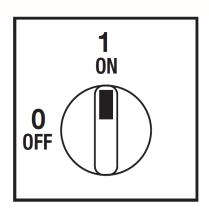
- Disconnect switch 3P
- IP20 protection degree
- Rating operational current le: 20A (AC-21A)
- Rating thermal current Ith: 25A
- Rating insulation voltage: 690V
- Base Mounting
- Fixing: with screws
  - Din rail
- Switching angle: 90°
- · Positive opening double break contacts, silver alloy made.
- · Self-extinguishing class V2



## Technical characteristics: Plate and knob

- Yellow plate 67x67mm and red padlockable knob (max. 3 padlocks)
- Protection degree IP66
- Quick fixing Ø22mm (0,87"), without screws

## Plate and position



#### Electrical scheme



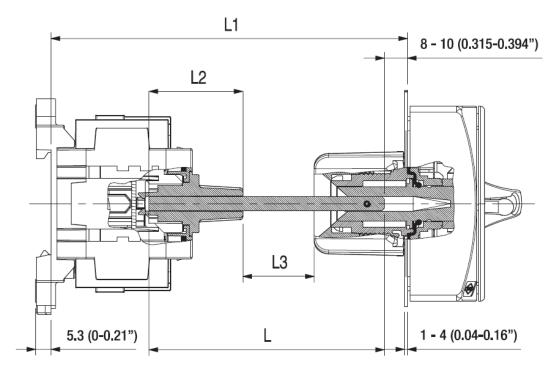
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measures in mm (in)

## **Dimensions**

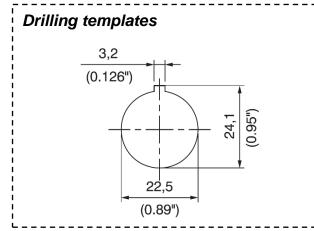


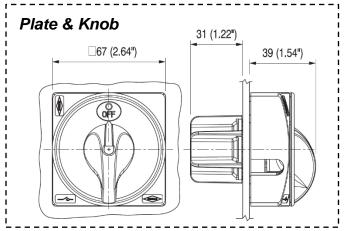
To determine the cut length L of the shaft, consider the following guidelines:

 $L3 \geq 1mm$   $12mm \leq L2 \leq 32mm$ 

In practice: L1	- 61mm ≤ L	≤ L1 <b>-</b> 41mm
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L min.	L max.
92 [3.63]	227 [8.94]







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Technical data IEC 947-3 EN 60947-3			
Rated insulation voltage	Ui	V	800
Rated operating voltage	Ue	V	800
Rated impulse withstand voltage	Uimp	kV	8
Rated thermal current for open switch	Ith	Α	25
Rated thermal current for enclosed switch	Ithe	Α	25
Rated operation frequency		Hz	50/60
Power dissipation for each pole		W	0,6
Rated operating current le			
AC-21A Switching resistive loads, including moderate overloads 690V	le	Α	20
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads 690V	le	Α	20
Rated operating power			
AC 224 Cuitabing of mater lands as ather highly industries lands	400V	Kw (A)	9 (18)
AC-23A Switching of motor loads or other highly inductive loads	690V	Kw (A)	9 (13)
	400V	Kw (A)	5,5 (10)
AC-3 Squirrel cage motors: starting, switching off motors during running	690V	Kw (A)	5,5 (6)
	400V	А	144
Rated breaking capability in category AC-23A (cos φ=0,45)	690V	Α	104
Short circuit protection			
Rated short time withstand current (1s)	lcw	А	300
Rated short-circuit make capacity	Icm	А	750
Rated conditional short-circuit current		kA	10
With fuses class gG	500V	А	20
Technical data UL/CSA (sec. UL508)			
General use voltage	Ue	V	600
General use current 600Vac	le	A	20
Rated operating power			
nated operating power	120V	Hp/FLA	1/-
1 phase - 2 pole	240V	Hp/FLA	2/-
	200V	Hp/FLA	-/-
	240V	Hp/FLA	5 / 15,2
3 phase - 3 pole	480V	Hp/FLA	10 / 14
	600V	Hp/FLA	15 / 17
Line protection fuses (DS size 1: Class RK5, 600Vac, 200kA A.I.C.), (DS size 2: Class J, 600Vac)	0001	A	20
Short Circuit Rating@600Vac		kA	5
		, , ,	,
Mechanical characteristics	Operations x10 <sup>6</sup>		0,03
Mechanical life (120 cycles/hour)		mm?	· · · · · · · · · · · · · · · · · · ·
Connecting capability with flexible wires	Min-Max	mm2	1,5 - 10
Connecting capability with solid wires	Min-Max	mm2	1,5 - 16
Connecting capability with flexible wires	Min-Max	AWG	16/08
Connecting capability with solid wires	Min-Max	AWG	16/06
Terminal screw			M4
Screw tightening torque		Nm lbf-in	1,7
Protection degree IEC 529 EN 60529		ווו-ונוו	12
Terminals			IP20
Handles			IP66
Ambient conditions  Operational ambient temperature		°C	-25 ÷ +55
Operational ambient temperature		°C	-25 ÷ +55
Storage ambient temperature			1
Withstand to constant humid according to IEC 60068			sec. IEC 60068-2-78
/ithstand to cycling humid according to IEC 60069			sec. IEC 60068-2-30

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