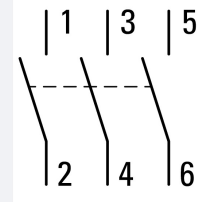




Switch-disconnector, R9, UL98, 100 A, service distribution board mounting, 3 pole, With black rotary handle

Part no. R9C3100U-DH
Catalog No. 191861

Delivery program

Product range			Switch-disconnector Main switch maintenance switch UL98
Part group reference			R9 With black rotary handle
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Number of poles			3 pole
Degree of Protection			IP20
Design			service distribution board mounting
Contact sequence			
Rated uninterrupted current	I_u	A	100
Note on rated uninterrupted current I_u			Rated uninterrupted current I_u is specified for max. cross-section.

Technical data

General

Standards			IEC/EN 60947, VDE 0660, CSA, UL
Ambient temperature			
Open		°C	-25 - +40
Rated impulse withstand voltage	U_{imp}	V AC	8000
Mounting position			As required

Contacts

Mechanical variables			
Number of poles			3 pole
Electrical characteristics			
Rated operational voltage	U_e	V AC	690
Rated uninterrupted current	I_u	A	100
Note on rated uninterrupted current I_u			Rated uninterrupted current I_u is specified for max. cross-section.
Rated conditional short-circuit current	I_q	kA	12

Switching capacity

AC			
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
400 V 415 V	P	kW	45
690 V	P	kW	45
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H_F	$< 10^{-5}$, < 1 failure in 100,000 switching operations

Terminal capacities

Terminal capacity		mm ²	6 - 70
Terminal screw			Inbus 4
tightening torque		N/m	6 mm ² = 3.5 Nm 10 - 35 mm ² = 4 Nm 50 - 70 mm ² = 5 Nm

Technical safety parameters:

Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use		A	100
Auxiliary contacts			
General Use	I _U	A	10
Pilot Duty			A 300
Short Circuit Current Rating			
High fault rating		SCCR	
		kA	100 (480 V) 25 (600 V)
max. Fuse		A	100, Class J
Terminal capacity			
Terminal capacity		AWG	10 - 2/0
Terminal screw			Inbus 4
tightening torque		lb-in	10 AWG = 31 lb.in 8 - 2 AWG = 35.4 lb.in 1 - 2/0 AWG = 44.3 lb.in

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec ss10.0.1-27-37-14-03 [AKF060013])			
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			No
Version as reversing switch			No
Number of switches			1
Max. rated operation voltage U _e AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current I _u		A	100
Rated permanent current at AC-23, 400 V		A	81
Rated permanent current at AC-21, 400 V		A	0
Rated operation power at AC-3, 400 V		kW	0
Rated short-time withstand current I _{cw}		kA	0
Rated operation power at AC-23, 400 V		kW	45
Switching power at 400 V		kW	0
Conditioned rated short-circuit current I _q		kA	0
Number of poles			3
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Built-in device fixed built-in technique
Suitable for ground mounting			Yes
Suitable for front mounting 4-hole			No
Suitable for front mounting centre			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			Yes
Colour control element			Black
Type of control element			Turn button

Interlockable		Yes
Type of electrical connection of main circuit		Frame clamp
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other

Dimensions

Handle Type S0

A

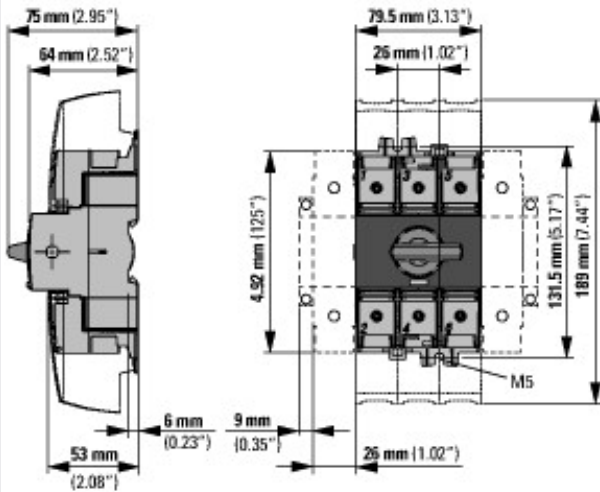
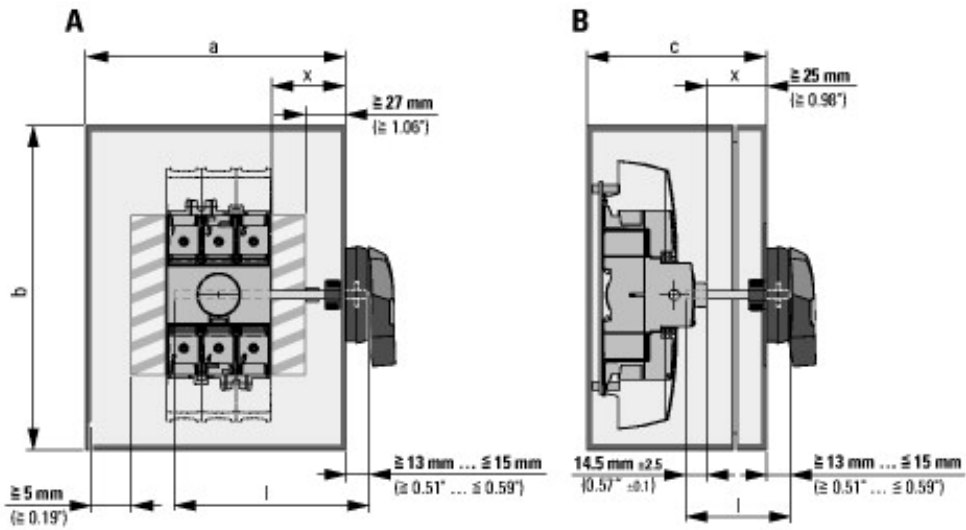
$$l = x + 94.5 \text{ mm}$$

$$(l = x + 3.72")$$

B

$$l = x + 32 \text{ mm}$$

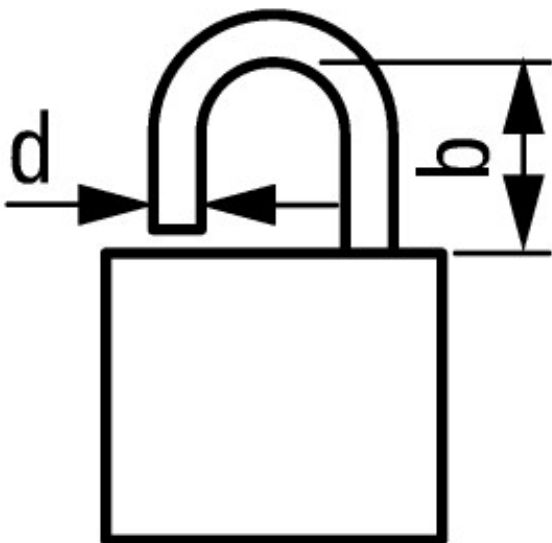
$$(l = x + 1.26")$$



Minimum enclosure dimensions
Dimensions minimum des coffrets
Dimensiones minimas de las cajas
mm (in)

UL standard	a	b	c
R9C3030U		305 (12)	
R9C3060U	203 (8)	305 (12)	153 (6)
R9C3100U		356 (14)	

15 mm (0.59")	
6 mm ² AWG10	3.5 Nm (31 lb-in)
10 - 35 mm ² AWG8 - AWG2	4 Nm (35.4 lb-in)
50 - 70 mm ² AWG1 - AWG2/0	5 Nm (44.3 lb-in)



$$d = 4 - 8 \text{ mm}$$

$$b + d \leq 47 \text{ mm}$$

$$d = 0.16 - 0.31"$$

$$b + d \leq 1.85"$$

1 padlock

Additional product information (links)

Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html