



UL98 switch-disconnector with rotary handle

Part no. **R9C3030U-DH**
 Catalog No. **191859**

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	30

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
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof

Contacts

Mechanical variables			
Number of poles			3 pole
Electrical characteristics			
Rated operational voltage	U_e	V AC	690
Rated uninterrupted current	I_u	A	30
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	15
500 V	P	kW	15
690 V	P	kW	18.5
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H_F	$< 10^{-5}$, < 1 fault in 100000 operations

Terminal capacities

Terminal capacity		mm ²	6 - 70
Terminal screw			Inbus 4
tightening torque		N/m	$6 \text{ mm}^2 = 3.5 \text{ Nm}$ $10 - 35 \text{ mm}^2 = 4 \text{ Nm}$ $50 - 70 \text{ mm}^2 = 5 \text{ Nm}$

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	30
Auxiliary contacts			
General Use	I _U	A	10
Pilot Duty			A 300
Short Circuit Current Rating			
High fault rating		kA	100
max. Fuse		A	30, 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 6.0

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 (ecl@ss8.1-27-37-14-03 [AKF060010])			
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
Max. rated operation voltage U _e AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current I _u		A	30
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	15
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 center			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

Dimensions

Handle Type S0

A

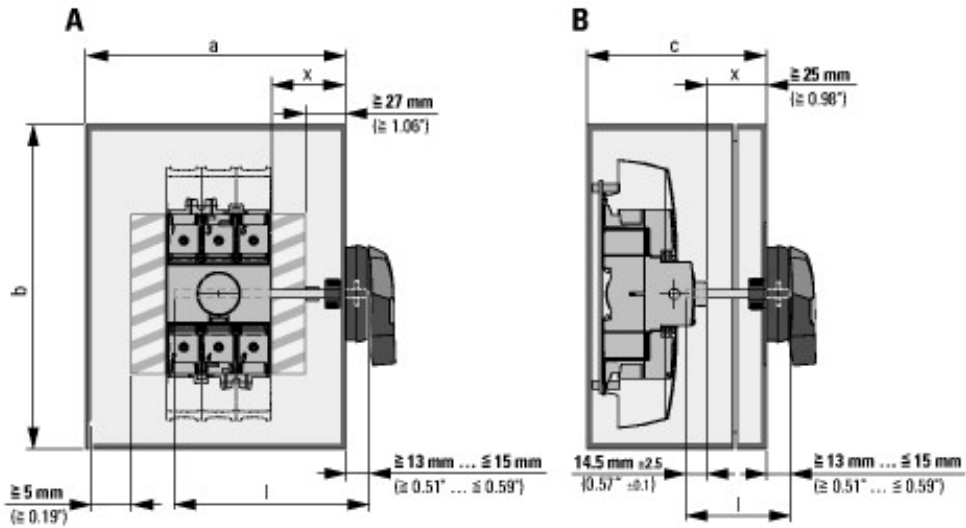
$$l = x + 94.5 \text{ mm}$$

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

B

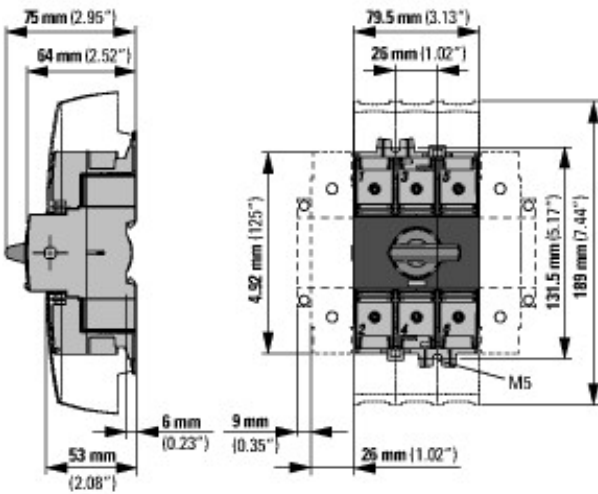
$$l = x + 32 \text{ mm}$$

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

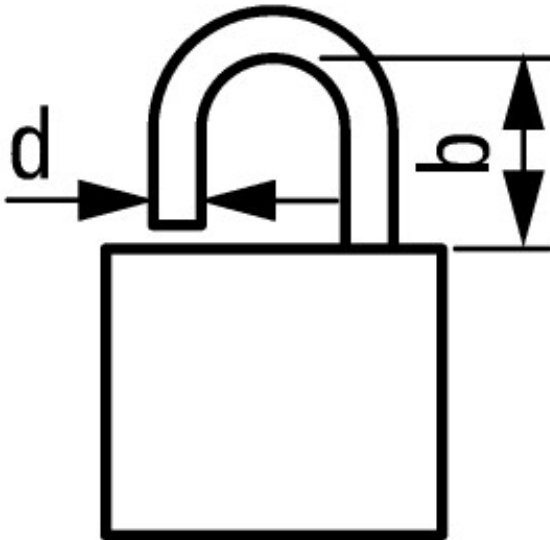


Minimum enclosure dimensions
Dimensions minimum des coffrets
Dimensiones minimas de las cajas
mm (in)

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



15 mm (0.59")		4	
	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)

IL008047ZU Switch-disconnectors UL98

IL008047ZU Switch-disconnectors UL98

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL008047ZU2017_02.pdf

MZ112002ZU Safety

MZ112002ZU Safety

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/MZ112002ZU.pdf

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