

Disconnecter switches DS Series – Datasheet



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ISO 9001 Certified Quality System

Cod. DS0203GDY4L



Technical characteristics: Body

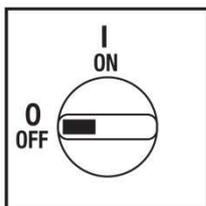
- ON-OFF 3 pole
- IP20 Protection degree
- Rated operational current I_n : 20A
- Rated thermal current I_{th} : 25A
- Rated insulation voltages U_i : 800V
- Rear Mounting
- Fixing at single hole $\varnothing 22\text{mm}$
- Switching angle: 90°
- Class V2 self-extinguishing thermoplastic housing
- Positive opening double break contacts, silver alloy made



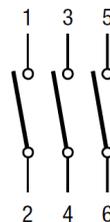
Technical characteristics: Plate and knob

- Yellow plate 48x48mm and red padlockable knob
- Protection degree IP66
- Fixing at single hole $\varnothing 22\text{mm}$

Plate and position



Electrical scheme



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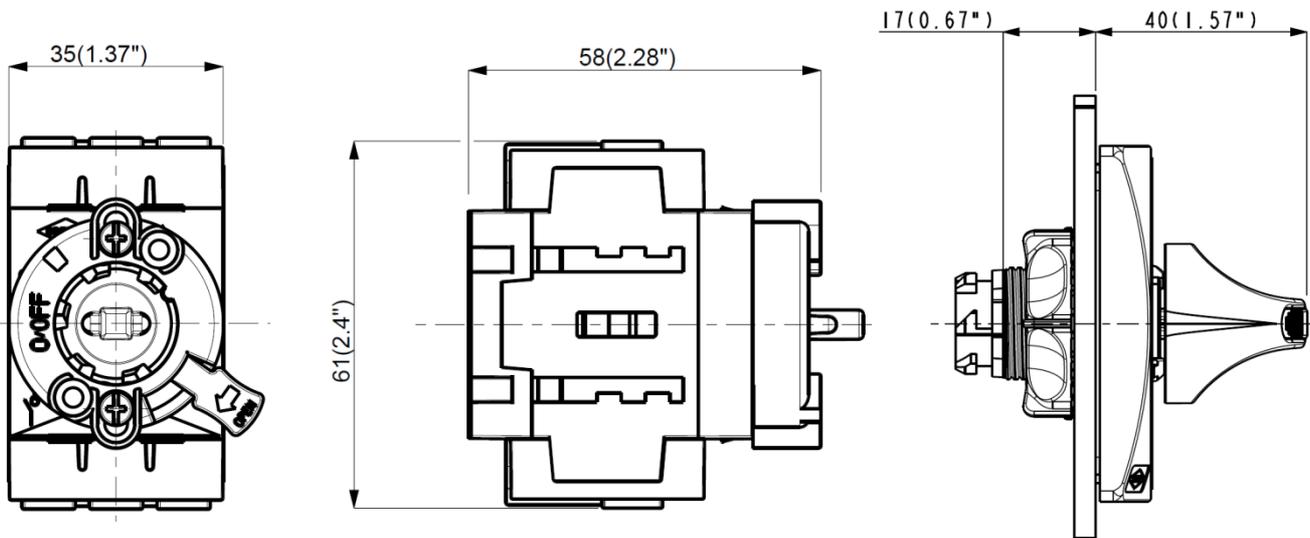


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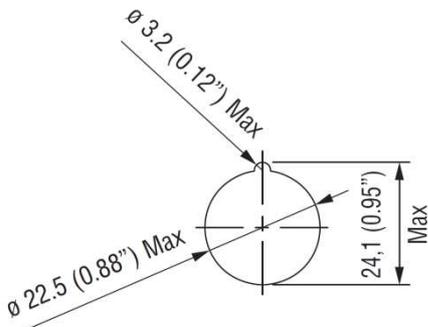
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Dimensions measures in mm (in)



Drilling templates measures in mm (in)



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				DS020
Technical data IEC 947-3 EN 60947-3				
Rated insulation voltage	Ui	V		800
Rated operational voltage	Ue	V		800
Rated impulse withstand voltage	Uimp	kV		8
Rated thermal current for open switch	Ith	A		25
Rated thermal current for enclosed switch	Ithe	A		25
Rated operational frequency		Hz		50/60
Power dissipation for each pole		W		0,6
Rated operational current				
AC-21A Switching resistive loads, including moderate overloads 3P/3P+N	690V	Ie	A	20
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads 3P/3P+N	690V	Ie	A	20
Rated operational power				
AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole	400V	Kw (A)		9 (18)
	690V	Kw (A)		9 (13)
AC-3 Squirrel cage motors: starting, switching off motors during running 3 phase - 3 pole	400V	Kw (A)		5,5 (10)
	690V	Kw (A)		5,5 (6)
Rated breaking capability in AC-23A (cos φ=0,45)	400V	A		144
	690V	A		104
Short circuit protection				
Rated short time withstand current	Icw	A		300
Rated short-circuit make capacity	Icm	A		750
Rated conditional short-circuit current		kA		10
With fuses class gG	500V	A		20
Mechanical life (120 cycles/hour)	Mil.Man			
Connecting capability with flexible wires	Min-Max	mm ²		1,5-10
Connecting capability with solid wires	Min-Max	mm ²		1,5-16
Connection terminal screw dimensions				M4
Screw tightening torque		Nm		1,7
Technical data UL/CSA (sec. UL508)				
General use voltage	Ue	V		600
General use current	600Vac	Ie	A	20
Rated operating power				
1 phase - 2 pole	120V	Hp/FLA		1/-
	240V	Hp/FLA		2/-
	200V	Hp/FLA		-/-
3 phase - 3 pole	240V	Hp/FLA		5/15,2
	480V	Hp/FLA		10/14
	600V	Hp/FLA		15/17
Line protection fuses (Class RK5, 600Vac, 200kA A.I.C.)		A		20
Short Circuit Rating@600Vac		A		-
		kA		5
Auxiliary contacts designation				AC Voltage, "Heavy Pilot Duty" (A600)
Mechanical characteristics				
Connecting capability with flexible wires	Min-Max	AWG		16/08
Connecting capability with solid wires	Min-Max	AWG		16/06
Screw tightening torque		ib.in		12
Protection degree IEC 529 EN 60529				
Terminals				IP20
Handles				IP66
Ambient conditions				
Operational ambient temperature		°C		-25 ÷ +55
Storage ambient temperature		°C		-25 ÷ +55
Withstand to constant humid according to IEC 60068				sec. IEC 60068-2-78
Withstand to cycling humid according to IEC 60069				sec. IEC 60068-2-30
Auxiliary contacts				DSC040N0_DSC040NC_
Rated insulation voltage	Ui	V		800
Rated thermal current for open switch	Ith	A		10
AC-15 Control of a.c electromagnetic loads	230V	A		3

Standard

IEC/EN 60947-3; UL508

Approvals

