imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Changeover switch, without 0 position, Connection method: Screw connection, Number of positions: 2, Function: 1 - 2, Switching zones: 2, Switching program number: S0221, Rated continuous current: 20 A, Voltage: 690 V

Why buy this product

- The compact rotary switch is designed for use in energy technology applications with the available switching programs
- The use of high-quality materials results in a long mechanical and electrical service life
- Comprehensive approvals ensure international use
- If High level of safety thanks to non-conductive plastic parts
- The terminal points are designed in such a way that shock protection according to BGV A2 is ensured
- The rotary switch is free from cadmium and compliant with the RoHS directive



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 785204
GTIN	4046356785204

Technical data

General

Number of connections	8
Color	silver/black
Rotary switch function	1 - 2
Switching program number	S0221
Switching angle	60 °
Rated continuous current	20 A
Maximum load current	20 A
Rated surge voltage	6 kV
Rated insulation voltage	690 V (Valid for networks with grounded neutral point, overvoltage category III, degree of pollution 3)



Technical data

General

Poted operating ourrest according to AC 15 (switching of colonaid	
Rated operating current according to AC-15 (switching of solenoid drives, contactors, valves, pulling electromagnets)	5 A (220 - 240 V)
	4 A (380 - 440 V)
Rated operating current according to AC-21A (switching of ohmic loads including small overloads)	20 A
Rated operating current according to AC-22A (switching of mixed ohmic and inductive loads, including small overloads)	20 A (220 - 500 V)
	20 A (660 - 690 V)
Switching power according to AC-3 (squirrel-cage motors: direct starting, switching off motors during operation, star-delta startup (CH16B))	3 kW (220 - 240 V; 3-phase, 3-pos.)
	5.5 kW (380 - 440 V; 3-phase, 3-pos.)
	5.5 kW (500 V; 3-phase, 3-pos.)
	5.5 kW (660 - 690 V; 3-phase, 3-pos.)
	0.6 kW (110 - 120 V; 1-phase, 2-pos.)
	2.2 kW (220 - 240 V; 1-phase, 2-pos.)
	3 kW (380 - 440 V; 1-phase, 2-pos.)
Switching power according to AC-4 (squirrel-cage motors: starting, reversing, plugging, inching)	0.55 kW (220 - 240 V; 3-phase, 3-pos.)
	1.5 kW (380 - 440 V; 3-phase, 3-pos.)
	1.5 kW (500 V; 3-phase, 3-pos.)
	1.5 kW (660 - 690 V; 3-phase, 3-pos.)
	0.3 kW (110 - 120 V; 1-phase, 2-pos.)
	0.75 kW (220 - 240 V; 1-phase, 2-pos.)
	1.5 kW (380 - 440 V; 1-phase, 2-pos.)
Switching power according to AC-23A (frequent switching of motors or other highly inductive loads)	3.7 kW (220 - 240 V; 3-phase, 3-pos.)
	7.5 kW (380 - 440 V; 3-phase, 3-pos.)
	7.5 kW (500 V; 3-phase, 3-pos.)
	7.5 kW (660 - 690 V; 3-phase, 3-pos.)
	0.75 kW (110 - 120 V; 1-phase, 2-pos.)
	2.5 kW (220 - 240 V; 1-phase, 2-pos.)
	3.7 kW (380 - 440 V; 1-phase, 2-pos.)
Breaking capacity	150 A (220 - 240 V)
	150 A (380 - 440 V)
	80 A (660 - 690 V)
Maximum power dissipation for nominal condition	1.8 W
Ambient temperature (operation)	-35 °C 55 °C (Open, at 100% load, with peaks up to 60°C)
IP immunity to short-circuiting with maximum backup fuse	25 A (gL/gG characteristics)
Rated short-time current resistance	140 A (1 s current)

Dimensions

Width	48 mm
Length	72 mm



Technical data

Dimensions

Height	48 mm			
Hole diameter	7 mm			
Height	29 mm			
Installation depth	43 mm			
Ambient conditions				
Ambient temperature (operation)	-35 °C 55 °C (Open, at 100% load, with peaks up to 60°C)			
Connection data				
Conductor cross section solid min.	0.5 mm ²			
Conductor cross section solid max.	2.5 mm ²			
Conductor cross section AWG min.	20			
Conductor cross section AWG max.	14			
Conductor cross section flexible min.	0.75 mm ²			
Conductor cross section flexible max.	2.5 mm ²			
Min. AWG conductor cross section, flexible	18			
Max. AWG conductor cross section, flexible	14			
Conductor cross section / stranded with ferrule without plastic sleeve min.	2.5 mm ²			
Conductor cross section / stranded with ferrule without plastic sleeve max.	2.5 mm ²			
Conductor cross section / stranded with ferrule with plastic sleeve min.	1.5 mm ²			
Conductor cross section / stranded, with ferrule with plastic sleeve may	1.5 mm²			
2 conductors with same cross section, solid min.	0.5 mm ²			
2 conductors with same cross section, solid max.	2.5 mm ²			
Two conductors with the same cross section, AWG solid min.	20			
Two conductors with the same cross section, AWG solid max.	14			
2 conductors with same cross section, stranded min.	0.75 mm ²			
2 conductors with same cross section, stranded max.	2.5 mm ²			
Two conductors with the same cross section, AWG stranded, min.	18			
Two conductors with the same cross section, AWG stranded, max.	14			
2 conductors with the same cross section/stranded, with ferrule and without plastic sleeve, minimum	2.5 mm ²			
2 conductors with the same cross section/stranded, with ferrule and without plastic sleeve, maximum	2.5 mm ²			
2 conductors with the same cross section/stranded, with ferrule and plastic sleeve, minimum	1.5 mm ²			
2 conductors with the same cross section/stranded, with ferrule and plastic sleeve, maximum	1.5 mm ²			
Standards and Regulations				
Flammability rating according to UL 94	V0			
Environmental Product Compliance				

China RoHS

Environmentally friendly use period: unlimited = EFUP-e

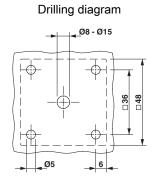


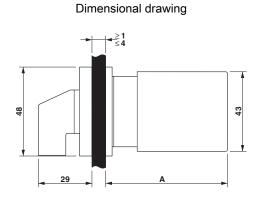
Technical data

Environmental Product Compliance

No hazardous substances above threshold values

Drawings





Circuit diagram



Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 357353
mm²/AWG/kcmil			20-12	

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Approvals

Γ

Nominal current IN	20 A
Nominal voltage UN	300 V

cUL Listed	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 357353
mm²/AWG/kcmil		20-12	
Nominal current IN		20 A	
Nominal voltage UN		300 V	

EAC

EHE

EAC-Zulassung

cULus Listed



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