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Amp meter changeover switch, Connection method: Screw connection, Number of positions: 1, Function: 0 - 1 - 2 - 3, Switching zones: 3, Switching program number: S0048, 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
- 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 pc
GTIN	4 046356 771504
Weight per Piece (excluding packing)	118.9 g
Custom tariff number	85365080
Country of origin	Ireland

#### Technical data

#### General

Number of connections	12
Color	silver/black
Rotary switch function	0 - 1 - 2 - 3
Switching program number	S0048
Switching angle	90 °
Rated continuous current	20 A
Maximum load current	20 A
Rated surge voltage	6 kV



# Technical data

## General

Rated insulation voltage	690 V
Additional text	Valid for networks with grounded neutral point, surge voltage category III, pollution degree 3
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)
IP immunity to short-circuiting with maximum backup fuse	25 A
Additional text	gL/gG characteristics
Rated short-time current resistance	140 A
Additional text	1 s current



## Technical data

# Dimensions

Width	48 mm
Length	81.5 mm
Height	48 mm
Hole diameter	7 mm
Height	29.00 mm
Installation depth	52.50 mm

### Ambient conditions

Ambient temperature (operation)	-35 °C 55 °C (Open, at 100% load, with peaks up to 60°C)
	-35 °C 35 °C (Encapsulated, at 100% load, with peaks up to 60°C)

#### Connection data

Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Conductor cross section stranded min.	0.75 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	18
Max. AWG conductor cross section, stranded	14
Conductor cross section / stranded with ferrule without plastic sleeve min.	2.5 mm²
Conductor cross section / stranded with ferrule without plastic sleeve max.	2.5 mm²
Conductor cross section / stranded with ferrule with plastic sleeve min.	1.5 mm²
Conductor cross section / stranded, with ferrule with plastic sleeve max.	1.5 mm²
2 conductors with same cross section, solid min.	0.5 mm²
2 conductors with same cross section, solid max.	2.5 mm²
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 mm²
2 conductors with same cross section, stranded max.	2.5 mm²
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 mm²
2 conductors with the same cross section/stranded, with ferrule and without plastic sleeve, maximum	2.5 mm²
2 conductors with the same cross section/stranded, with ferrule and plastic sleeve, minimum	1.5 mm²
2 conductors with the same cross section/stranded, with ferrule and plastic sleeve, maximum	1.5 mm²



# Classifications

## eCl@ss

eCl@ss 4.0	27141111
eCl@ss 4.1	27141111
eCl@ss 5.0	27141133
eCl@ss 5.1	27141133
eCl@ss 6.0	27141133
eCl@ss 7.0	27141133

### **ETIM**

ETIM 3.0	EC001121
ETIM 4.0	EC002498
ETIM 5.0	EC002498

### **UNSPSC**

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

# **Approvals**

#### Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted

## Approval details

UL Listed <b>(II)</b>	
mm²/AWG/kcmil	20-12
Nominal current IN	20 A

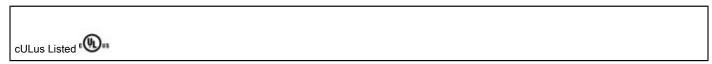


# Approvals

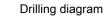
Nominal voltage UN	300 V

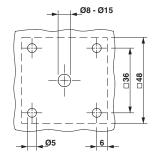
cUL Listed • • • • • • • • • • • • • • • • • • •	
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Nominal current IN	20 A
Nominal voltage UN	300 V

EAC

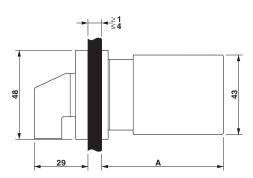


## **Drawings**





### Dimensioned drawing



#### Circuit diagram

