

Features

- RS PRO Contactor Range for a variety of applications
- Three Coil actuation voltages to choose from
- Compact Design
- Integrated Aux. Contact
- Offering wide range of Certifications

RS PRO Contactor, 110 V Coil, 3-Pole, 38 A, 18.5 kW, 1NC

RS Stock No.: 2508829



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

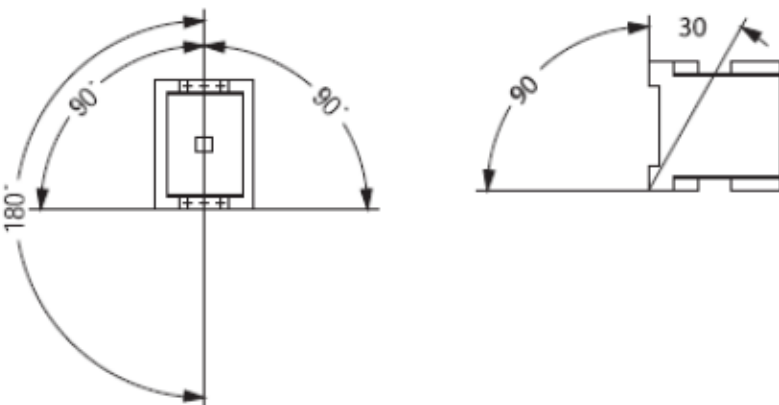
- *RS PRO Contactors for switching AC-3 and AC-4 loads like asynchronous squirrel cage motors*
- *Different Coil voltages available*
- *Variety of auxiliaries including aux. Contact blocks; Surge suppressors, mechanical interlocks*

General Specifications

Climatic Proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient Temperature Open	-25 – 60 °C
Ambient Temperature for storage	-40 – 80 °C
Protection Type	IP20
Protection against direct contact when actuated from front (EN 50274)	Finger- and back-of-hand proof
Weight	
AC operated	0.27 kg
DC operated	0.25 kg

Mechanical Specifications

Mechanical Lifespan	
AC operated	Operations 15 x 10 ⁶
DC operated	Operations 10 x 10 ⁶
Maximum operating frequency	See characteristics in diagram

Mounting Position	
Mechanical shock resistance (IEC/EN 60068-2-27)	Half-sinusoidal shock 10 ms; Basic devices with auxiliary contact module
N/O Aux.	7 g
N/C Aux.	5 g
N/O Main	10 g

Electrical Specifications

Rated Operational Current AC-3	Ie = 9 to 15A
Maximum Motor rating AC-3 (400V)	P= 4kW @ 9A/ 7.5kW @ 15A
Maximum Motor rating AC-3 (500V)	P= 4.5kW @ 7A/ 7.5kW @ 12.5A
Maximum Motor rating AC-3 (690V)	P= 4.5kW @ 5A/ 7kW @ 9A
Rated Operational Current AC-4	Ie = 6 to 7A
Maximum Motor rating AC-4 (400V)	P= 2.5kW @ 6A/ 3kW @ 7A
Maximum Motor rating AC-4 (500V)	P= 1.8kW @ 5A/ 3.5kW @ 6A
Maximum Motor rating AC-4 (690V)	P= 3.6kW @ 4.5A/ 4.4kW @ 5A
Conventional thermal current AC-1 (one/ three pole)	Ith = 20/ 50A @ 60°C
Terminal Capacity	Screw Terminals
Solid	1 × (0.75 – 2.5) mm ² 2 × (0.75 – 2.5) mm ²
Flexible with Ferrule	1 × (0.75 – 2.5) mm ² 2 × (0.75 – 1.5) mm ²
Solid or Stranded (UL)	AWG 18 - 14
Terminal	M 3.5
Screwdriver Size	Pozidrive 2
Tightening Torque	1.2 Nm max.
Rated impulse withstand voltage	Uimp 8000V AC

Contactors



Over-voltage category/degree of pollution	III/ 3
Rated insulation voltage	Ui 690V AC
Rated operating voltage	Ue 690V AC
Rated Operational Current AC-1 (230/ 400/ 690V)	8/ 14/ 25A @60°C
Making capacity of up to 440 V 9A/ 15A Contactor (cos phi as specified in IEC/EN 60947)	112/ 155A
Breaking capacity 9A/ 15A Contactor @230/ 400/ 500/ 690V (cos phi as specified in IEC/EN 60947)	70/ 70/ 50/ 40A 124/ 124/ 100/ 70A
Maximum Horsepower rating 1 pole 9A Contactor (120/ 208/ 240V)	0.5/ 1/ 1HP
Maximum Horsepower rating 3 pole 9A (208/ 240/ 480/ 600V)	3/ 3/ 5/ 5HP
Maximum Horsepower rating 1 pole 15A Contactor (120/ 208/ 240V)	1/ 2/ 2HP
Maximum Horsepower rating 3 pole 15A (208/ 240/ 480/ 600V)	5/ 5/ 7.5/ 7.5HP
Uninterrupted Current open and enclosed @60°C	20A
High Fault (SCCR) at 600V	30kA
Fuse Amp Rating/ Class	60A DFJ
Aux Contact Rating	A600 Q300
Safe isolation according to EN 61140	
Between coil and auxiliary contacts	440V AC
Between the auxiliary contacts	440V AC
Control circuit reliability (at Ue = 24 V DC, Umin = 17 V, Imin = 5.4 mA)	Fault probability < one failure in 100 million operations
Short-circuit protection rating maximum fuse	500V gG/gL Type 20A @400V
Short-circuit protection rating maximum fuse	690V gG/gL Type 16A @690V
Short-circuit protection rating maximum fuse	500V gG/gL Type 35A @400V
Short-circuit protection rating maximum fuse	690V gG/gL Type 20A @690V
Current heat loss at load of Ith (3 pole)	3 W

Magnet System

AC operated	Pick-up $0.8 - 1.1 \times U_c$
DC operated	Pick-up $0.8 - 1.1 \times U_c$
50/60Hz Pick-up	40 VA
50/60Hz Sealing	6 VA
50/60Hz Sealing	1.4 W
DC operated Pick-up	12 W
DC operated Sealing	3 W
Duty Factor	100 %
AC operated (Closing/ Opening Delay)	15-21/ 9-18 ms
DC operated (Closing/ Opening Delay)	80/ 20 ms

Approvals

Declarations	CE and UKCA Declaration of Conformity
Hazardous Area Certification	None
Standards Met	IEC, GB, UL

Similar Products

Stock No. RS No.	Brand	Product Name	Nominal Current	Coil Voltage	EAN/ GTIN
2508790	RS PRO	RSPRO9-10(24VDC)	9A	24VDC	5059044401507
2508784	RS PRO	RSPRO9-10(24V50/60HZ)	9A	24V 50/60Hz	5059044401460
2508785	RS PRO	RSPRO9-10(110V50/60HZ)	9A	110V 50/60Hz	5059044401477
2508787	RS PRO	RSPRO9-10(230V50/60HZ)	9A	230V 50/60Hz	5059044401484
2508788	RS PRO	RSPRO9-10(400V50/60HZ)	9A	400V 50/60Hz	5059044401491
2508796	RS PRO	RSPRO9-01(24VDC)	9A	24VDC	5059044401552
2508791	RS PRO	RSPRO9-01(24V50/60HZ)	9A	24V 50/60Hz	5059044401514
2508793	RS PRO	RSPRO9-01(110V50/60HZ)	9A	110V 50/60Hz	5059044401521
2508794	RS PRO	RSPRO9-01(230V50/60HZ)	9A	230V 50/60Hz	5059044401538

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2508795	RS PRO	RSPRO9-01(400V50/60HZ)	9A	400V 50/60Hz	5059044401545
2508801	RS PRO	RSPRO15-10(DC24V)	15A	24VDC	5059044401606
2508797	RS PRO	RSPRO15-10(24V50/60HZ)	15A	24V 50/60Hz	5059044401569
2508798	RS PRO	RSPRO15-10(110V50/60HZ)	15A	110V 50/60Hz	5059044401576
2508799	RS PRO	RSPRO15-10(230V50/60HZ)	15A	230V 50/60Hz	5059044401583
2508800	RS PRO	RSPRO15-10(400V50/60HZ)	15A	400V 50/60Hz	5059044401590
2508810	RS PRO	RSPRO15-01(DC24V)	15A	24VDC	5059044401651
2508802	RS PRO	RSPRO15-01(24V50/60HZ)	15A	24V 50/60Hz	5059044401613
2508803	RS PRO	RSPRO15-01(110V50/60HZ)	15A	110V 50/60Hz	5059044401620
2508804	RS PRO	RSPRO15-01(230V50/60HZ)	15A	230V 50/60Hz	5059044401637
2508808	RS PRO	RSPRO15-01(400V50/60HZ)	15A	400V 50/60Hz	5059044401644

Connection Diagrams / Assembly Diagrams / Illustrations / Accessories