

B7S-30-10-1.7-71



General Information

Extended Product Type:	B7S-30-10-1.7-71
Product ID:	GJL1313001R7101
EAN:	4013614189845
Catalog Description:	B7S-30-10-1.7-71 Mini Contactor
Long Description:	The B7S-30-10 mini contactor is a compact 3 pole contactor with 1 auxiliary contact and screw terminals. They are ideally suited for applications where reliability is a must and space is at a premium. Mini contactors are used in residential buildings, commercial buildings and industrial applications for the control of single or three-phase loads up to 5.5 kW (AC-3) and 20 A / 690 V (AC-1) or switching of control signals. Due to the low coil consumption, this device can be directly controlled by a PLC. Further features are the noiseless and hum-free coil, the integrated protective circuit with diodes and additional overvoltage protection, a switch position indication and the integrated possibility for rail or wall mounting. Auxiliary contacts,

Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Mini Contactors

Ordering

EAN:	4013614189845
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Dimensions

Product Net Width:	52.5 mm
Product Net Height:	57.5 mm
Product Net Depth:	46.5 mm
Product Net Weight:	0.175 kg

Container Information

Package Level 1 Units:	10 piece
Package Level 1 Width:	115.0 mm
Package Level 1 Height:	54.0 mm
Package Level 1 Length:	280.0 mm
Package Level 1 Gross Weight:	1.820 kg
Package Level 1 EAN:	4013614418389

Technical

Number of Poles:	4
Mini Contactor Type:	Interface Mini Contactor
Rated Operational Voltage:	Auxiliary Circuit 12 ... 240 V DC Auxiliary Circuit 12 ... 500 V AC DC V Main Circuit 12 ... 690 V AC DC V Main Circuit 690 V AC
Rated Frequency (f):	Control Circuit DC Main Circuit 60 Hz Main Circuit 50 Hz Main Circuit DC
Rated Impulse Withstand Voltage	Auxiliary Circuit 6 kV

(U_{imp}):	Main Circuit 6 kV
Rated Insulation Voltage (U_i):	690 V acc. to UL/CSA 600 V
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Rated Operational Current AC-1 (I_θ):	(220/240V) 40°C 20 A (220/240V) 55°C 16 A (380/440V) 40°C 20 A (380/440V) 55°C 16 A (690V) 40°C 6 A (690V) 55°C 6 A
Rated Operational Power AC-3 (P_θ):	(220 / 230 / 240V) 3.00 kW (400V) 5.50 kW (400V) Three Phase 5.50 kW (440V) 5.50 kW (500V) 5.50 kW (690V) 3.00 kW
Rated Short-time Withstand Current (I_{cw}):	at 40°C Ambient Temp, in Free Air, from a Cold State 10s 96 A
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 20.00 A
Rated Control Circuit Voltage (U_c):	24 V DC
Coil Operating Limits:	(acc. to IEC 60947-4-1) for DC supply 0.85 ... 1.1 x U _c (at θ ≤ 55 °C)
Degree of Protection:	Auxiliary Circuit Terminals IP20 Control Circuit Terminals IP20 Main Circuit Terminals IP20
Mechanical Durability:	10000000 cycle
Minimum Switching Capacity:	17 V 200 mA
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour AC-15 360 cycles per hour AC-3 600 cycles per hour DC-1 600 cycles per hour DC-13 360 cycles per hour DC-3 600 cycles per hour
Connecting Capacity-Main Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity-Auxiliary Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Connecting Capacity-Control Circuit:	Flexible with Ferrule 1/2x 1 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ²
Wire Stripping Length:	Auxiliary Circuit 9 mm Main Circuit 9 mm
Tightening Torque:	Auxiliary Circuit 0.8 ... 1.1 N·m Control Circuit 0.8 ... 1.1 N·m Main Circuit 0.8 ... 1.1 N·m
Mounting on DIN Rail:	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Power Loss:	Per Pole 2 W
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1

IEC/EN 60947-5-1
 UL 60947-1
 UL 60947-4-1

Remarks: No CA6 or CAF6 mountable

Environmental

Ambient Air Temperature: Operation -20 ... +55 °C
 Storage -40 ... +80 °C

Maximum Operating Altitude Permissible: 2000 m

Resistance to Shock acc. to IEC 60068-2-27: 11 ms Pulse 15g

Resistance to Vibrations acc. to IEC 60068-2-6: 5g / 5 ... 150 Hz

RoHS Status: Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA: Main Circuit 600 V AC

Connecting Capacity-Main Circuit UL/CSA: Stranded 1/2x 22 ... 10 AWG

Connecting Capacity-Auxiliary Circuit UL/CSA: Stranded 1/2x 22 ... 10 AWG

Horsepower Rating UL/CSA: 208V AC Three Phase 3.00 Hp
 220 ... 240V AC Three Phase 3.00 Hp
 440 ... 480V AC Three Phase 5.00 Hp
 550 ... 600V AC Three Phase 5.00 Hp

Tightening Torque UL/CSA: Auxiliary Circuit 7 in·lb
 Control Circuit 7 in·lb
 Main Circuit 7 in·lb

General Use Rating UL/CSA: 600V AC 16.00 A

Certificates and Declarations (Document Number)

BV Certificate: 1SAA938000-0203

CB Certificate: 1SAA938000-2002

CCC Certificate: 1SAA938001-3804

cUL Certificate: 1SAA938003-1701

Declaration of Conformity - CE: 1SAD938509-0001

DNV Certificate: 1SAA938000-0305

EAC Certificate: 1SAA920000-2702

GL Certificate: 1SAA938000-0403

LR Certificate: 1SAA938000-0503

RMRS Certificate: 1SAA938000-0703

RoHS Information: 1SAA938003-4403

UL Certificate: 1SAA938000-1604

Classifications

eClass: 7.0 27371003

Object Classification Code: Q

ETIM 4.0: EC000066 - Magnet contactor, AC-switching

ETIM 5.0: EC000066 - Magnet contactor, AC-switching

UNSPSC: 39121529



