

PRODUCT-DETAILS

# AS09-30-01S-20

## AS09-30-01S-20 24V50/60HZ Contactor



### Informations générales

Extension du type de produit	AS09-30-01S-20
Code de produit	1SBL101004R2001
EAN	3471523039209
Description courte	AS09-30-01S-20 24V50/60HZ Contactor
Description longue	AS09 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. The AS..S contactors are the spring terminal version of the AS... range. The AS... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles, 1 built-in auxiliary contact, front-mounted add-on auxiliary contact blocks (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

### Commande

Quantité minimum	40 pièce
Code douanier	85364900

### Downloads Préférés

Instructions et manuels	1SBC101020M9701
CAD Dimensional Drawing	2CDC001079B0201

## Dimensions

Produit Largeur Net	45 mm
Produit Longueur Net	72.5 mm
Produit Hauteur Net	68 mm
Poids net	0.22 kg

## Technique

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	1
Normes et standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N° 14
Tension	Circuit auxiliaire 690 V Circuit principal 690 V
Fréquence assignée (f)	Circuit auxiliaire 50 / 60 Hz Circuit principal 50 / 60 Hz
Courant thermique conventionnel à l'air libre ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 20 A acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 10 A
Courant assignée d'emploi AC-1 ( $I_e$ )	(690 V) 40 °C 20 A (690 V) 60 °C 15 A (690 V) 70 °C 12 A
Courant assignée d'emploi AC-3 ( $I_e$ )	(415 V) 60 °C 9 A (440 V) 60 °C 8 A (500 V) 60 °C 8 A (690 V) 60 °C 5 A (380 / 400 V) 60 °C 9 A (220 / 230 / 240 V) 60 °C 9 A
Puissance assignée d'emploi AC-3 ( $P_e$ )	(400 V) 4 kW (415 V) 4 kW (440 V) 4 kW (500 V) 4 kW (690 V) 4 kW (220 / 230 / 240 V) 2.2 kW
Courant assignée d'emploi AC-15 ( $I_e$ )	(500 V) NC 2 (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Courant assigné de courte durée admissible ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 20 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 230 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 65 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 155 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 90 A
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-15) 1200 cycles per hour (AC-2 / AC-4) 300 cycles per hour (AC-3) 1200 cycles per hour (DC-13) 900 cycles per hour
Courant assignée d'emploi DC-13 ( $I_e$ )	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W

	(125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W
Tension assignée d'isolement (U <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Tension assignée de tenue aux chocs (U <sub>imp</sub> )	Circuit auxiliaire 6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 24 V 60 Hz 24 V
Durée de fonctionnement nominale	Entre la mise hors tension de la bobine et la fermeture du contact NC (normally closed) 7 ... 22 ms Entre la mise hors tension de la bobine et l'ouverture du contact NO (normally open) 5 ... 19 ms Entre la mise sous tension de la bobine et l'ouverture du contact NC 6 ... 18 ms Entre la mise sous tension de la bobine et la fermeture du contact NO 9 ... 24 ms
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm <sup>2</sup> Rigid 1/2x 0.75 ... 2.5 mm <sup>2</sup>
Wire Stripping Length	Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm
Indice de protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
Type de borne	Spring Terminals

## Technique UL/CSA

General Use Rating UL/CSA	(600 V AC) 12 A
Puissance nominale UL/CSA	(120 V AC) Single Phase 1/3 hp (200 ... 208 V AC) Three Phase 2 hp (220 ... 240 V AC) Three Phase 2 hp (240 V AC) Single Phase 1 hp (440 ... 480 V AC) Three Phase 5 hp (550 ... 600 V AC) Three Phase 7.5 hp

## Environnement

Température de l'air ambiant	Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C Close to Contactor without Thermal O/L Relay -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Altitude de fonctionnement maximale autorisée	Without Derating 3000 m
REACH Declaration	2CMT2021-006202
Résistance aux chocs selon CEI 60068-2-27	Closed, Shock Direction: B1 10 g Closed, Shock Direction: C1 20 g Closed, Shock Direction: C2 20 g Open, Shock Direction: B1 5 g Open, Shock Direction: C1 9 g Open, Shock Direction: C2 14 g Shock Direction: A 20 g Shock Direction: B2 15 g

Resistance to Vibrations  
acc. to IEC 60068-2-6

5 ... 300 Hz 3 g Closed position / 2 g Open position

Informations RoHS

2CMT2021-006277

Statut RoHS

Following EU Directive 2011/65/EU

## Certificats et Déclarations (Numéro de document)

CB Certificate	CB_CN13475-M1
CCC Certificate	CCC_2007010309251577
CQC Certificate	CQC2007010309251577
Declaration of Conformity - CCC	2020980304001224
Déclaration de Conformité - CE	1SBD250014U1000
Declaration of Conformity - UKCA	1SBD250049U1000
Certificat GOST	GOST_POCCCNME77B07822.pdf
Certificat UL	UL_20120917_E312527_1_1
UL Listing Card	UL_E312527

## Emballage

Emballage Niveau 1 Unités	1 pièce
Emballage Niveau 1 Largeur	78 mm
Emballage Niveau 1 Longueur	80 mm
Emballage Niveau 1 Hauteur	48 mm
Emballage Niveau 1 Poids	0.22 kg
Emballage Niveau 1 EAN	3471523039209
Emballage Niveau 2 Unités	40 pièce
Emballage Niveau 2 Largeur	250 mm
Emballage Niveau 2 Longueur	195 mm
Emballage Niveau 2 Hauteur	315 mm
Emballage Niveau 2 Poids	8.8 kg
Emballage Niveau 3 Unités	960 pièce

## Classifications

Code de classification d'objet	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - contacteur de puissance pour commutation de courant alternatif
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
Code de catégorie	4761 >> Magnet contactor, AC-switching

granulaire IDEA (IGCC)

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## Catégories

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Produits basse tension → Produits de Contrôle, Protection et sécurité machines → Contacteurs → Contacteurs monoblocs → AS  
Contactors → AS09

