# SIEMENS

## Data sheet

## 3RK1301-0DB00-0AA2



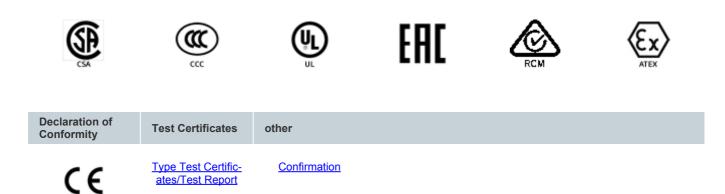
DS1-X for ET 200S Standard DOL starter expandable Setting range 0.22...0.32 A AC-3, 0.09 kW /400 V Electromechanical starter for brake control module

Figure	similar
, igoi o	Contrained.

product brand name	SIMATIC		
product designation	Motor starters		
design of the product	direct starter		
product type designation	ET 200S		
General technical data			
trip class	CLASS 10		
product function on-site operation	Yes		
power loss [W] for rated value of the current at AC in hot operating state	9 W		
• per pole	3 W		
power loss [W] for rated value of the current without load current share typical	4.12 W		
insulation voltage rated value	500 V		
degree of pollution	3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation between main and auxiliary circuit	400 V		
shock resistance	5g / 11 ms		
vibration resistance	2g		
operating frequency maximum	750 1/h		
mechanical service life (switching cycles) of the main contacts typical	100 000		
type of assignment	2		
reference code acc. to IEC 81346-2	Q		
Substance Prohibitance (Date)	26.10.2016 00:00:00		
product function			
direct start	Yes		
reverse starting	No		
product component motor brake output	Yes		
product feature			
<ul> <li>brake control with 230 V AC</li> </ul>	No		
<ul> <li>brake control with 24 V DC</li> </ul>	No		
<ul> <li>brake control with 180 V DC</li> </ul>	No		
<ul> <li>brake control with 500 V DC</li> </ul>	No		
product extension braking module for brake control	Yes		
product function short circuit protection	Yes		
design of short-circuit protection	circuit-breakers		
breaking capacity maximum short-circuit current (lcu)			

• all not of lattic value     bit No.       ENC emitted interference acc. to IEC 60947.1     CISPR11, ambience A (industrial sector)       ENC immunity acc. to IEC 60947.4     corresponds to degree of severity 3, ambience A (industrial sector)       • due to conductor-centuctor surge acc. to IEC 61000-4.5     21V (U > 24 V DC)       • due to conductor-centuctor surge acc. to IEC 61000-4.5     21V (U > 24 V DC)       • field-based interference acc. to IEC 61000-4.5     80 MHz. 1 CHz 10 V/m, 1.4 CHz 2 Hz 3 V/m, 2 CHz 2.7 CHz 1       Sefety related data     50 %       B10 value with high demand rate acc. to SN 31920     75 %       • with low demand rate acc. to SN 31920     75 %       • with low demand rate acc. to SN 31920     75 %       • With ow demand rate acc. to SN 31920     75 %       • With ow demand rate acc. to SN 31920     75 %       • With ow demand rate acc. to SN 31920     75 %       • With ow demand rate acc. to SN 31920     75 %       • With ow demand rate acc. to SN 31920     75 %       • Multic with reported test interval or service UF acc.     21 y       • EC 61080     75 %       • Indice for the front acc. to IEC 6923     Inge-size       Main circuit     3       • design of the servich service With acc.     60 Hz       • operating frequency 1 rated value     60 Hz       • operating frequency 2 rated value     60 Hz	a at 400 V/ rated value	50 kA
EMC immunity act, to IEC 60947-1         CISPR11, antihence & (industrial sector)           eMC immunity act, to IEC 60947-1         corresponds to degree of seventy 3, antihence & (industrial sector)           conducted interference         - due to board act, to IEC 61000-4.5         2 kV on voltage supply, inputs and outputs           - due to conductor-cant base act, to IEC 61000-4.5         2 kV (U > 24 V DC)         30 kHz 2.7 GHz 1           Field-based interference act, to IEC 61000-4.5         30 kHz 1 GHz 10 V/m, 1.4 GHz 2 Hz 3 V/m, 2 GHz 2.7 GHz 1           Safety related data         E10 value with high demand rate act, to SN 31920         1000 000           proportion of dangerous failures         with how demand rate act, to SN 31920         100 FT           11 value for proof test interval ors service life acc, to IEC 60529         100 FT         11 value for proof test interval or service life acc, to IEC 60529           IEM antioux for proof test interval or service life acc, to IEC 60529         Inger-sale         Main corrent response value current of the 022 0.32 A           Current dependent overlaad crite acc. to IEC 60529         Inger-sale         Inger-sale           Adautstial sectorin         0 Hz         0.32 A           Operating frequency 1 rated value         200 0.32 A         00 Hz           operating frequency 1 rated value         0.04 Hz         0.09 HV           operating frequency 1 rated valu	• at 400 V rated value	50 kA
EMC immunity acc. to EC 69847-1         consequence 4           conducted interference         consequence 4           due to conductor-conductor surge acc. to EC 61000-4-5         2 kV on voltage supply, inputs and outputs           due to conductor-conductor surge acc. to EC 61000-4-3         2kV (U > 24 V DC)           field-based interference acc. to EC 61000-4-3         80 MHz 1 GHz 10 V/m, 1.4 GHz 2.Hz 3 V/m, 2 GHz 2.7 GHz 1           Sately related data         1000 000           Proportion of dargerous field/meand rate acc. to SN 31920         50 %           • with low demand rate acc. to SN 31920         75 %           failure rate [FT]         • with low demand rate acc. to SN 31920         100 FTT           T value of profost infermal or service III data.ct to EC 60523         Inger-sale           fuller rate [FT]         • with low demand rate acc. to EC 60523         Inger-sale           fuller or profest for main current circuit         3         4           design of the writching context of the context of the cortext of the		
conducted infertence       2 kV on voltage supply, inputs and outputs         e due to burst acc. to IEC 61000-4.4       2 kV on voltage supply, inputs and outputs         e due to conductor-samp supe acc. to IEC 61000-4.3       2 kV on voltage supply, inputs and outputs         field-based interference acc. to IEC 61000-4.3       80 MHz 1 GHz 10 V/m, 1.4 GHz 2 Hz 3 V/m, 2 GHz 2.7 GHz 1         Starty related data       1000 000         proportion of dangerous failures       90 V/m voltage supply, inputs and outputs         • with how demand rate acc. to SN 31920       1000 000         proportion of dangerous failures       90 %         • with how demand rate acc. to SN 31920       100 FT         T value with whigh demand rate acc. to SN 31920       100 FT         T value for proof test Interval or service life acc. to       IEC 61000         protection on the front acc. to IEC 60529       finge-safe         Main circuit       100 FT         runtber of poles for main current circuit       3         design of the switching contact       electromechanical         adjustable current value       200 400 V         operating frequency 2 rated value       60 Hz         relative positive tolerance of the operating frequency       10 %         operating frequency 2 rated value       00 Hz         operating frequency 2 rat		
due to burst acc. to IEC 61000-4.2     2 V/ On voltage supply, inputs and outputs     2 V/ On voltage supply, inputs and outputs     2 V/ OD 2 4 V/ DC)     1 K/ (U > 24 V/ DC)     1 K/ (U = 24 V/ U = 24 V/ U = 24 V/ U		corresponds to degree of severity 3, ambience A (industrial sector)
• due to conductor-conductor         1KV (U > 24 V DC)           field-based interference acc. to IEC 6100-4-3         0 MHz 1 GHz 10 V/m, 1.4 GHz 2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m           Safety related data         0 MHz 1 GHz 10 V/m, 1.4 GHz 2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m           Safety related data         1000 000           Proportion of dangerous failures         50 %           • with high demand rate acc. to SN 31920         75 %           failure rate [FI]         with low demand rate acc. to SN 31920         75 %           failure rate [FI]         1000 000         FIT           • with high demand rate acc. to SN 31920         100 FIT           TV value for prof test introvid or service life acc. to         20 y           IEC 61608         IP20           protection class IP on the front acc. to IEC 60529         IP20           functional data class IP on the front acc. to IEC 60529         IP20           mumber of poles for main current circuit         3           design of the synthching contact         022 0.32 A           cype of the moor protection         bimetal           operating frequency 1 ratio Value         60 Hz           operating frequency 1 ratio Value         0.32 A           operating frequency 1 ratio Value         0.32 A           operating frequency 1 ratio V		
6 1000-4-5       B0 WHz       1 GHz 10 Vim, 1 4 GHz       2 Hz 3 Vim, 2 GHz       2 GHz         Safety related data       B10 value with high demand rate acc. to SN 31920       1 000 000         proportion of dangerous failures       50 %         • with hoy demand rate acc. to SN 31920       75 %         failure rate [FT]       • with hoy demand rate acc. to SN 31920       75 %         failure rate [FT]       • with hoy demand rate acc. to SN 31920       100 FT         1 Value for proof test interval or service life acc. to [EC 60529       Inger-safe         Protection class IP on the front acc. to IEC 60529       Inger-safe         Main circuit       3       delectromechanical         operating volger ratel value       20 2	C C	
Vim         Vim           Safety related data         B10 value with high demand rate acc. to SN 31920         1 000 000           proportion of dangerous failures         50 %           • with high demand rate acc. to SN 31920         75 %           feiture rate [FT]]         • with high demand rate acc. to SN 31920         75 %           feiture rate [FT]         • with high demand rate acc. to SN 31920         20 y           IEC 61608         P         20 y           protection class IP on the front acc. to IEC 60529         IP20           future rate [FT]         fuge-safe           Main circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current of the current release         0.22 0.32 A           Cype of the motor protection         bimetal           operating voltage rated value         60 Hz           operating releave to the operating frequency         10 %           relative negative tolerance of the operating requency         10 %           operating relative to the operating requency         10 %           operating rower for 3-phase motors at 400 V rated value         0.32 A           operating power for 3-phase motors at 400 V at 60 Hz         200 400 V M           operating power for 3-p		1  KV (0 > 24  V DC)
B10 value with high demand rate acc. to SN 31920     1 000 000       proportion of dangerous failures     50 %       • with high demand rate acc. to SN 31920     50 %       • with high demand rate acc. to SN 31920     75 %       failure rate [FT]     • with high demand rate acc. to SN 31920     100 FT       • with high demand rate acc. to SN 31920     100 FT       • with how demand rate acc. to SN 31920     100 FT       • with how demand rate acc. to IEC 60529     IP20       protection class IP on the front acc. to IEC 60529     IP20       mumber of poles for main current circuit     3       design of the switching contact     electomechanical       adjustable current response value current of the     0.22 0.32 A       type of the motor protection     bimetal       operating requency 2 rated value     60 Hz       operating requency 2 rated value     60 Hz       operating requency 2 rated value     0.32 A       operating requency 2 rated value     0.32 A       operating requency 1 rated value     0.32 A       operating properties of the operating frequency     10%       relative positive tolerance of the operating requency     10%       operating propert of 3-phase motors at 400 V at 50 Hz     0.09 400 V       operating propertize bip in the formaticable     No       • digital inputs signals     0 <td>field-based interference acc. to IEC 61000-4-3</td> <td></td>	field-based interference acc. to IEC 61000-4-3	
proportion of dangerous failures     50 %       • with link demand rate acc. to SN 31920     50 %       • with low demand rate acc. to SN 31920     75 %       failure rate [FT]     •       • with low demand rate acc. to SN 31920     100 FIT       TV value for proof test interval or service life acc. to IEC 60529     100 FIT       TV value for proof test interval or service life acc. to IEC 60529     102 V       protection class IP on the front acc. to IEC 60529     1120       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current response value current of the cortexity on the protection     bimetal       operating frequency 1 rated value     200 400 V       operating frequency 1 rated value     60 Hz       operating frequency 1 rated value     0.32 A       operating requires 1 at 400 V rated value     0.32 A       operating prover at AC-3 at 400 V rated value     0.09 kW       operating power for 3-phase motors at 400 V rated value     0.09 kW       operating power for 3-phase motors at 400 V rated Value     0       oilgial inputs sprameterizable     No       number of digital inputs     0       ordigital inputs sprameterizable     No       ordigital inputs of scleets     0       ordigital inputs inpals	Safety related data	
proportion of dangerous failures     50 %       • with link demand rate acc. to SN 31920     50 %       • with low demand rate acc. to SN 31920     75 %       failure rate [FT]     •       • with low demand rate acc. to SN 31920     100 FIT       TV value for proof test interval or service life acc. to IEC 60529     100 FIT       TV value for proof test interval or service life acc. to IEC 60529     102 V       protection class IP on the front acc. to IEC 60529     1120       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current response value current of the cortexity on the protection     bimetal       operating frequency 1 rated value     200 400 V       operating frequency 1 rated value     60 Hz       operating frequency 1 rated value     0.32 A       operating requires 1 at 400 V rated value     0.32 A       operating prover at AC-3 at 400 V rated value     0.09 kW       operating power for 3-phase motors at 400 V rated value     0.09 kW       operating power for 3-phase motors at 400 V rated Value     0       oilgial inputs sprameterizable     No       number of digital inputs     0       ordigital inputs sprameterizable     No       ordigital inputs of scleets     0       ordigital inputs inpals	B10 value with high demand rate acc. to SN 31920	1 000 000
• with low demand rate acc. to SN 31920     50 %       • with ligh demand rate acc. to SN 31920     75 %       failure rate [FT]     • uith low demand rate acc. to SN 31920     100 FIT       1 value for proof test Interval or service life acc. to IEC 60529     100 FIT       protection class IP on the front acc. to IEC 60529     Inger-safe       Main circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current direcut     0.22 0.32 A       current-dependent overload release     60 Hz       operating frequency 2 rated value     60 Hz       operating frequency 2 rated value     60 Hz       operating frequency 2 rated value     60 Hz       operating route of the operating frequency     10 %       operating route of the operating frequency     10 %       operating route of the operating frequency     10 %       operating name releave to the operating frequency     10 %       operating name releave to the operating frequency     0.09 KW       operating name releave to alue     0.09 KW       operating name frequency     0.09 KW       operating prover for 3-phase motors at 400 V at 50 Hz     0.09 KW       operating prover for 3-phase motors at 400 V at 50 Hz     0.09 KW       operating prover for 3-phase motors at 400 V at 50 Hz     0.09 KW <td< td=""><td></td><td></td></td<>		
failure rate [FIT]     100 FIT       • with low demand rate acc. to SN 31920     100 FIT       T value for proof test interval or service life acc. to IEC 61508     20 y       protection class IP on the front acc. to IEC 60529     IP20       touch protection on the front acc. to IEC 60529     IP20       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-dependent overload release     0.22 0.32 A       operating voltage ratel value     200 400 V       operating voltage ratel value     50 Hz       operating voltage ratel value     60 Hz       operating power at AC-3 at 400 V rated value     0.32 A       operating power at AC-3 at 400 V rated value     0.09 kW       operating power at AC-3 at 400 V rated value     0.09 kW       operating power at AC-3 at 400 V rated value     0.09 kW       operating power at AC-3 at 400 V rated value     0.09 kW       inputs/ Orthots     0       product function     0       • digital inputs parameterizable     No       • digital output signals     0 </td <td></td> <td>50 %</td>		50 %
• with low demand rate acc. to SN 31920         100 FIT           TY value for proof test interval or service life acc. to IEC 61508         20 y           protection class IP on the front acc. to IEC 60529         IP20           finger-safe         finger-safe           Main circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         0.22 0.32 A           type of the motor protection         bimetal           operating requency 1 rated value         60 Hz           operating frequency 1 rated value         60 Hz           operating requency 1 rated value         60 Hz           operating requency 1 rated value         0.02 440 V           operating requency 1 rated value         0.32 A           operating requency 1 rated value         0.32 A           operating power at AC-3 at 400 V rated value         0.32 A           operating power at AC-3 at 400 V vated value         0.09 kW           operating power for 3-phase motors at 400 V at 50 Hz         0.09 kW           operating power for 3-phase motors at 400 V at 50 Hz         0.09 kW           inputs parameterizable         No           number of sockets         0           of digital inputs signals <td< td=""><td><ul> <li>with high demand rate acc. to SN 31920</li> </ul></td><td>75 %</td></td<>	<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	75 %
T1 value for proof test interval or service life acc. to liEC 6/s08     20 y       protection class IP on the front acc. to IEC 60529     IP20       touch protection on the front acc. to IEC 60529     Inger-safe       Main circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-dependent overload release     0.22 0.32 A       type of the motor protection     bimetal       operating requency 1 rated value     60 Hz       operating frequency 2 rated value     60 Hz       operating requency 1 rated value     60 Hz       operating requency 1 rated value     60 Hz       operating requency 1 rated value     0.32 A       operating requency 1 rated value     0.32 A       operating requency 1 rated value     0.32 A       operating owner at AC-3 at 400 V rated value     0.08 kW       operating power for 3-phase motors at 400 V at 50 Hz     0.09 0.09 kW       Inputs/ Outputs     0       product function     0       • digital inputs parameterizable     No       • for digital inputs ignals     0       • for digital inputs ignals     0       • for digital input signals	failure rate [FIT]	
IEC 61505     IP20       protection class IP on the front acc. to IEC 60529     Ingersate       number of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-dependent overload release     0.22. 0.32 A       type of the motor protection     bimetal       operating frequency 1 rated value     60 Hz       operating frequency 1 rated value     60 Hz       operating require of the operating frequency     10 %.       relative positive tolerance of the operating frequency     10 %.       operating padve tolerance of the operating frequency     10 %.       operating padve tolerance of the operating frequency     10 %.       operating padve tolerance of the operating frequency     10 %.       operating padve tolerance of the operating frequency     10 %.       operating padve tolerance of the operating frequency     10 %.       operating power for 3-phase motors at 400 V ated value     0.09 0.09 kW       operating power for 3-phase motors at 400 V ated value     0.09 0.09 kW       operating toglial input sparameterizable     No       number of sockets     0       • for digital input signals     0       • for digital input signals     0       • for digital input signals     0       • for digital input signals <t< td=""><td><ul> <li>with low demand rate acc. to SN 31920</li> </ul></td><td>100 FIT</td></t<>	<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	100 FIT
protection class IP on the front acc. to IEC 60529         IP20           functor protection on the front acc. to IEC 60529         finger-safe           Main circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         0.22 0.32 A           type of the motor protection         bimetal           operating voltage rated value         200 400 V           operating frequency 1 rated value         60 Hz           operating requency 2 rated value         60 Hz           operating requency 1 rated value         60 Hz           operating requency 2 rated value         60 Hz           operating regressitive tolerance of the operating frequency         10 %           relative negative tolerance of the operating frequency         10 %           operating power at AC-3 at 400 V rated value         0.32 A           operating power at AC-3 at 400 V rated value         0.09 kW           operating power at AC-3 at 400 V vated value         0.09 kW           operating power at AC-3 at 400 V vated value         0.09 kW           operating power at AC-3 at 400 V vated value         0.09 kW           operating power at AC-3 at 400 V vated value         0.09 kW           operating power for 3-phase motors at 400 V at 50 Hz<		20 у
touch protection on the front acc. to IEC 60529         finger-safe           Main circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         0.22 0.32 A           type of the motor protection         bimetal           operating voltage rated value         50 Hz           operating frequency 1 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           operating range relative tolerance of the operating frequency         10 %           operating range relative tole operating voltage at AC at         50 Hz           operating power at AC-3 at 400 V rated value         0.32 A           operating power for 3-phase motors at 400 V at 50 Hz         0.09 0.09 kW           operating power at AC-3 at 400 V rated value         0.09 0.09 kW           operating power at AC-3 at 400 V at 50 Hz         0.09 0.09 kW           portifical output signals         0           number of digital inputs inputs         0           number of sockets         0           of digital output signals         0           of digital input signals         0           of digital input signals         0           of or digital output signals		IP20
Main circuit     3       Immber of poles for main current circuit     3       design of the switching contact     electromechanical       adjustable current response value current of the current-dependent overload release     0.22 0.32 A       type of the motor protection     bimetal       operating frequency 1 rated value     50 Hz       operating frequency 1 rated value     60 Hz       relative negative tolerance of the operating frequency     10 %       operating range relative to the operating frequency     10 %       operating range relative to the operating voltage at AC at 50 Hz     0.32 A       operating power at AC-3 at 400 V rated value     0.32 A       operating power at AC-3 at 400 V rated value     0.09 kW       operating power for 3-phase motors at 400 V at 50 Hz     0.09 kW       Inputs/ Outputs     0       product function     0       • digital inputs parameterizable     No       • for digital inputs     0       • for digital inputs ignals     0       • for digital input signals     0    <	•	
number of poles for main current circuit         3           design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         0.22 0.32 A           type of the motor protection         bimetal           operating frequency 1 rated value         50 Hz           operating frequency 1 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           relative negative tolerance of the operating frequency         10 %           operating range relative to the operating roluge at AC at         200 440 V           50 Hz         009 WW           operating power at AC-3 at 400 V rated value         0.32 A           operating power at AC-3 at 400 V rated value         0.09 kW           operating power at AC-3 at 400 V at 50 Hz         0.09 kW           inputs/ Outputs         0.09 kW           inputs/ Outputs         0           rumber of digital inputs parameterizable         No           • for digital output signals         0           • for digital input singnals         0           •	•	
design of the switching contact         electromechanical           adjustable current response value current of the current-dependent overload release         0.220.32 A           type of the motor protection         bimetal           operating requency 1 rated value         60 Hz           operating frequency 2 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           operating range relative to the operating frequency         10 %           operating range relative tolerance of the operating frequency         10 %           operating range relative to the operating frequency         10 %           operating power of 3-phase motors at 400 V at 50 Hz         0.09 kW           operating power for 3-phase motors at 400 V at 50 Hz         0.09 kW           operating power for 3-phase motors at 400 V at 50 Hz         0.09 kW           inputber of digital inputs parameterizable         No           e digital outputs parameterizable         No           number of digital inputs ignals         0           of or digital output signals         0           operating of the supply voltage         DC           supply voltage 1 at DC         24 24 V           supply voltage 1 at DC         28.8 V           Control supply voltage 1 at DC rated value         20.4 28.8 V		3
adjustable current response value current of the current-dependent overload release     0.22 0.32 A       type of the motor protection     bimetal       operating frequency 1 rated value     50 Hz       operating frequency 1 rated value     60 Hz       relative positive tolerance of the operating frequency     10 %       coperating range relative to the operating frequency     10 %       operating range relative to the operating frequency     10 %       operating power at AC-3 at 400 V rated value     0.32 A       operating power at AC-3 at 400 V rated value     0.32 A       operating power at AC-3 at 400 V rated value     0.09 kW       operating power at AC-3 at 400 V rated value     0.09 kW       operating power for 3-phase motors at 400 V at 50 Hz     0.09 0.09 kW       inputs/ Outputs     0       product function     0       e digital inputs parameterizable     No       of digital inputs inputs     0       number of digital inputs inputs     0       output voltage     DC       supply voltage 1 at DC     20.4 V       supply voltage 1 at DC rated value     0.4 V       o minimum permissible     20.4 V       emainum permissible     20.4 V       emainum permissible     20.4 V       emainum permissible     20.4 V       emainum permissible     20.4 V<		-
surrent-dependent ovérload release         bimetal           operating voltage rated value         200 400 V           operating frequency 1 rated value         50 Hz           operating frequency 2 rated value         60 Hz           relative nositive tolerance of the operating frequency         10 %           operating range relative to the operating frequency         10 %           operating range relative to the operating routage at AC at 50 Hz         200 440 V           operating power at AC-3 at 400 V rated value         0.32 A           operating power at AC-3 at 400 V rated value         0.99 0.09 kW           operating power at AC-3 at 400 V rated value         0.99 0.09 kW           operating toutputs parameterizable         No           e digital inputs parameterizable         No           e digital output signals         0           of or digital inputs         0           number of sockets         0           e for digital input signals         0           supply voltage 1 at DC         24 24 V           supply voltage 1 at DC rated value         20.4 V           e maximum permissible         20.4 V           e maximum permissible         20.4 V           operating provoltage at DC rated value         20.4 V		
operating voltage rated value         200 400 V           operating frequency 1 rated value         50 Hz           operating frequency 2 rated value         60 Hz           relative positive tolerance of the operating frequency         10 %           operating range relative to be operating voltage at AC at 50 Hz         200 440 V           operating range relative to the operating voltage at AC at 50 Hz         200 440 V           operating power at AC-3 at 400 V rated value         0.32 A           operating power at AC-3 at 400 V rated value         0.09 kW           operating power at AC-3 at 400 V ated value         0.09 kW           operating power at AC-3 at 400 V ated value         0.09 kW           operating trunction         0.09 kW           operating trunction         0.09 kW           operating opwer for 3-phase motors at 400 V at 50 Hz         0.09 kW           inputs/ Outputs         0           product function         0           • digital inputs parameterizable         No           • digital output signals         0           • for digital inputs         0           • for digital input signals         0           • for digital input signals         0           • supply voltage 1 at DC         24 24 V           supply voltage 1 at DC<	•	
operating frequency 1 rated value       50 Hz         operating frequency 2 rated value       60 Hz         relative positive tolerance of the operating frequency       10 %         relative negative tolerance of the operating frequency       10 %         operating range relative to the operating frequency       10 %         operating range relative to the operating voltage at AC at 50 Hz       200 440 V         operating power at AC-3 at 400 V rated value       0.32 A         operating power for 3-phase motors at 400 V at 50 Hz       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 kW         Inputs/ Outputs       0.10 kW         product function       0 digital inputs parameterizable         No       No         number of digital inputs parameterizable       No         for digital output signals       0         of or digital inputs signals       0         supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC       28.8 V         Control supply voltage at DC rated value       DC         other of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V	type of the motor protection	bimetal
operating frequency 2 rated value       60 Hz         relative positive tolerance of the operating frequency       10 %         operating range relative tolerance of the operating frequency       10 %         operating range relative to the operating voltage at AC at 50 Hz       200 440 V         operating power at AC-3 at 400 V rated value       0.32 A         operating power at AC-3 at 400 V rated value       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 0.09 kW         inputs/Outputs       0         product function       • digital inputs parameterizable       No         • of digital inputs parameterizable       No         • for digital inputs signals       0         • for digital input signals       0         • for digital at DC       24 24 V         supply voltage 1 at DC       28.8 V         Control circuit/ Control       28.8 V         Control supply voltage at DC rated value       20.4 28.8 V	operating voltage rated value	200 400 V
relative positive tolerance of the operating frequency       10 %         operating range relative to the operating voltage at AC at 50 Hz       200 440 V         operational current       0 32 A         operating power at AC-3 at 400 V rated value       0.32 A         operating power at AC-3 at 400 V rated value       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 kW         product function       0.09 kW         • digital inputs parameterizable       No         • for digital inputs       0         number of sockets       0         • for digital input signals       0	operating frequency 1 rated value	50 Hz
relative negative tolerance of the operating frequency       10 %         operating range relative to the operating voltage at AC at 50 Hz       200 440 V         operational current       0.32 A         operating power at AC-3 at 400 V rated value       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 kW         Inputs/ Outputs       0.09 kW         product function       0         • digital inputs parameterizable       No         • digital output signals       0         • for digital output signals       0         • for digital input signals       0         • for digital input signals       0         • for digital input signals       0         • for digital at DC       24 24 V         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC       28.8 V         • maximum permissible       20.4 28.8 V         Control supply voltage at DC rated	operating frequency 2 rated value	60 Hz
operating range relative to the operating voltage at AC at 50 Hz       200 440 V         operational current       0.32 A         operating power at AC-3 at 400 V rated value       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 0.09 kW         Inputs/ Outputs       0.09 0.09 kW         product function       0.09 0.09 kW         • digital inputs parameterizable       No         • digital output is parameterizable       No         • for digital output signals       0         • for digital input signals       0         • for digital input signals       0         • for digital autput signals       0         Supply voltage 1 at DC       24 24 V         supply voltage 1 at DC       28.8 V         Control circuit/ Control       20.4 V         • maximum permissible       20.4 V         • maximum permissible       28.8 V         Control supply voltage at DC rated value <t< td=""><td>relative positive tolerance of the operating frequency</td><td>10 %</td></t<>	relative positive tolerance of the operating frequency	10 %
S0 Hz     0       operational current     0.32 A       operating power at AC-3 at 400 V rated value     0.09 kW       operating power at AC-3 at 400 V at 50 Hz     0.09 kW       operating power at AC-3 at 400 V at 50 Hz     0.09 kW       Inputs/Outputs     0.09 kW       product function     0       • digital inputs parameterizable     No       • digital outputs parameterizable     No       • digital outputs parameterizable     0       • digital inputs ignals     0       • for digital input signals     0       • type of voltage of the supply voltage     DC       supply voltage 1 at DC     24 24 V       supply voltage 1 at DC rated value     20.4 V       • maximum permissible     28.8 V       Control circuit/ Control     DC       control supply voltage at DC rated value		10 %
• at AC-3 at 400 V rated value       0.32 A         operating power at AC-3 at 400 V rated value       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 0.09 kW         Inputs/ Outputs       0.09 kW         product function       0.09 kW         • digital inputs parameterizable       No         • digital outputs parameterizable       No         • digital inputs       0         number of digital inputs       0         • for digital output signals       0         • for digital input signals       0         • for digital input signals       0         • for digital at DC       24 24 V         supply voltage 1 at DC       28.8 V         Control circuit/ Control       28.8 V         Control supply voltage at DC rated value       20.4 28.8 V		200 440 V
operating power at AC-3 at 400 V rated value       0.09 kW         operating power for 3-phase motors at 400 V at 50 Hz       0.09 0.09 kW         Inputs/ Outputs       0         product function          • digital inputs parameterizable       No         • digital outputs parameterizable       No         number of digital inputs       0         number of digital inputs       0         number of digital output signals       0         • for digital input signals       0         • for digital input signals       0         supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC       20.4 V         • maximum permissible       20.4 V         • maximum permissible       20.4 V         control circuit/ Control       DC         type of voltage of the control supply voltage       DC         supply voltage 1 at DC rated value       20.4 V         • maximum permissible       20.4 V         control circuit/ Control       20.4 28.8 V	operational current	
operating power for 3-phase motors at 400 V at 50 Hz     0.09 0.09 kW       Inputs/ Outputs       product function       • digital inputs parameterizable       No       • digital inputs       0       number of digital inputs       • for digital input signals       0       supply voltage       type of voltage of the supply voltage       0       supply voltage 1 at DC       • minimum permissible       28.8 V       Control circuit/ Control       type of voltage of the control supply voltage       DC       control supply voltage at DC rated value       20.4 28.8 V	• at AC-3 at 400 V rated value	0.32 A
Inputs/ Outputs         product function         • digital inputs parameterizable       No         • digital outputs parameterizable       No         number of digital inputs       0         number of sockets       0         • for digital output signals       0         • for digital input signals       0         • for digital input signals       0         • for digital input signals       0         Supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC rated value       20.4 V         • maximum permissible       28.8 V         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V	operating power at AC-3 at 400 V rated value	0.09 kW
product function       No         • digital inputs parameterizable       No         number of digital inputs       0         number of sockets       0         • for digital output signals       0         • for digital input signals       0         • for digital input signals       0         Supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC rated value       28.8 V         Control circuit/ Control       28.8 V         Control supply voltage at DC rated value       DC         control supply voltage at DC rated value       20.4 28.8 V	operating power for 3-phase motors at 400 V at 50 Hz	0.09 0.09 kW
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• digital outputs parameterizable       No         number of digital inputs       0         number of sockets       0         • for digital output signals       0         • for digital input signals       0         Supply voltage       0         type of voltage of the supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC rated value       20.4 V         • maximum permissible       28.8 V         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 V         e maximum permissible       28.8 V         Control circuit/ Control       DC         control supply voltage at DC rated value       20.4 28.8 V	product function	
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number of sockets0• for digital output signals0• for digital input signals0Supply voltage0type of voltage of the supply voltageDCsupply voltage 1 at DC24 24 Vsupply voltage 1 at DC rated value20.4 V• minimum permissible28.8 VControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC rated value20.4 28.8 V		No
<ul> <li>for digital output signals</li> <li>for digital input sinput signals</li> <li>for digital input signals</li>     &lt;</ul>	number of digital inputs	0
• for digital input signals       0         Supply voltage       DC         type of voltage of the supply voltage       DC         supply voltage 1 at DC       24 24 ∨         supply voltage 1 at DC rated value       20.4 ∨         • minimum permissible       28.8 ∨         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 ∨         control supply voltage at DC rated value       20.4 28.8 ∨	number of sockets	
Supply voltage       DC         type of voltage of the supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC rated value       20.4 V         • minimum permissible       28.8 V         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V	<ul> <li>for digital output signals</li> </ul>	0
type of voltage of the supply voltage       DC         supply voltage 1 at DC       24 24 V         supply voltage 1 at DC rated value       20.4 V         • minimum permissible       28.8 V         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V	for digital input signals	0
supply voltage 1 at DC       24 24 V         supply voltage 1 at DC rated value       20.4 V         • minimum permissible       28.8 V         Control circuit/ Control       28.8 V         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V	Supply voltage	
supply voltage 1 at DC rated value       20.4 V         • minimum permissible       28.8 V         Control circuit/ Control       28.8 V         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V	type of voltage of the supply voltage	DC
• minimum permissible         20.4 V           • maximum permissible         28.8 V           Control circuit/ Control            type of voltage of the control supply voltage         DC           control supply voltage at DC rated value         20.4 28.8 V	supply voltage 1 at DC	24 24 V
Control circuit/ Control         type of voltage of the control supply voltage       DC         control supply voltage at DC rated value       20.4 28.8 V         control supply voltage 1       Control supply voltage 1		20.4 V
type of voltage of the control supply voltageDCcontrol supply voltage at DC rated value20.4 28.8 Vcontrol supply voltage 1Control supply voltage 1		28.8 V
control supply voltage at DC rated value     20.4 28.8 V       control supply voltage 1     20.4 28.8 V	Control circuit/ Control	
control supply voltage 1	type of voltage of the control supply voltage	DC
	control supply voltage at DC rated value	20.4 28.8 V
• at DC rated value 20.4 28.8 V	control supply voltage 1	
	• at DC rated value	
• at DC 24 24 V	● at DC	24 24 V

power loss [W] in auxiliary and control circuit	_		
<ul> <li>in switching state OFF</li> </ul>			
— with bypass circuit	0.3744 W		
— without bypass circuit	0.374 W		
• in switching state ON			
— with bypass circuit	4.1184 W		
— without bypass circuit	4.118 W		
Installation/ mounting/ dimensions			
mounting position	vertical, horizontal		
		lo	
fastening method	pluggable on terminal modu 265 mm	ne	
height	-		
width	45 mm		
depth	120 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	0 60 °C		
<ul> <li>during storage</li> </ul>	-40 +70 °C		
during transport	-40 +70 °C		
relative humidity during operation	5 95 %		
Communication/ Protocol			
protocol is supported			
<ul> <li>PROFIBUS DP protocol</li> </ul>	Yes		
PROFINET protocol	Yes		
design of the interface PROFINET protocol	Yes		
product function bus communication	Yes		
protocol is supported AS-Interface protocol	No		
product function			
<ul> <li>supports PROFlenergy measured values</li> </ul>	No		
<ul> <li>supports PROFlenergy shutdown</li> </ul>	No		
address space memory of address range			
• of the inputs	1 byte		
• of the outputs	1 byte		
type of electrical connection			
of the communication interface	via backplane bus		
for communication transmission	via backplane bus		
Connections/ Terminals			
type of electrical connection for main current circuit	screw-type terminals		
type of electrical connection	solow-type terminals		
1 for digital input signals	using control module		
<ul> <li>2 for digital input signals</li> </ul>	using control module		
type of electrical connection			
at the manufacturer-specific device interface	plug		
<ul> <li>at the manufacturer-specific device interface</li> <li>for main energy infeed</li> </ul>	plug screw-type terminals		
<ul> <li>for load-side outgoing feeder</li> </ul>	screw-type terminals Screw-type terminals		
for main energy transmission	via energy bus		
for supply voltage line-side     for supply voltage transmission	via backplane bus		
for supply voltage transmission	via backplane bus		
UL/CSA ratings			
operating voltage at AC at 60 Hz acc. to CSA and UL rated value	600 V		
Certificates/ approvals			
General Product Approval		EMC	For use in hazard- ous locations



#### Further information

EG-Konf

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-0DB00-0AA2

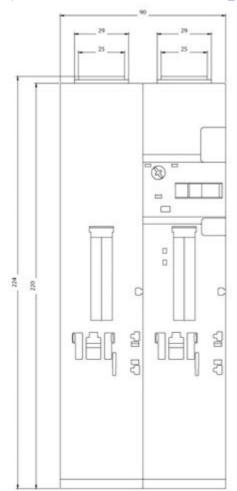
### Cax online generator

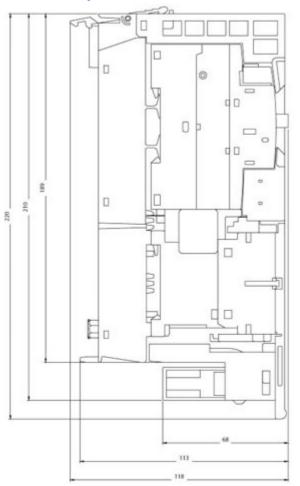
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0DB00-0AA2

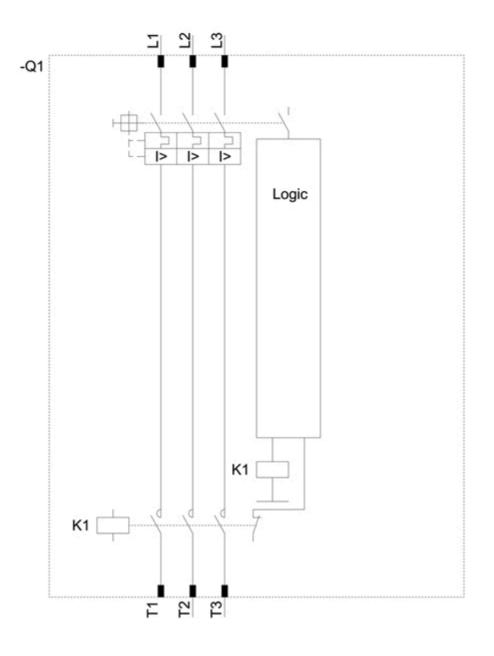
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0DB00-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-0DB00-0AA2&lang=en







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