Data sheet

3RK1308-0CE00-0CP0



Fail-safe direct-on-line starter High Feature; Incl. fan (3RW4928-8VB00); Electronic switching; Electronic overload protection up to 5.5 kW / 400 V; Adjustment range 4.0 .. 12 A; PROFlenergy; Option: 3DI/LC module

product brand name	SIMATIC
product category	Motor starter
product designation	Direct-on-line starter
product type designation	ET 200SP
General technical data	
trip class	CLASS OFF / 5 / 10 adjustable
equipment variant acc. to IEC 60947-4-2	3
product function	Fail-safe direct-on-line starter
 on-site operation 	Yes
 intrinsic device protection 	Yes
 remote firmware update 	Yes
 for power supply reverse polarity protection 	Yes
power loss [W] for rated value of the current	
at AC in hot operating state per pole	3 W
insulation voltage rated value	500 V
degree of pollution	2
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	500 V
shock resistance	6g / 11 ms
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
operating frequency maximum	1 1/s
mechanical service life (switching cycles) of the main contacts typical	30 000 000
type of assignment	1
utilization category	
• acc. to IEC 60947-4-2	AC-53a: 12 A: (8-0,5: 72-32)
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.04.2016
product function	
direct start	Yes
reverse starting	No
product component motor brake output	No
product function short circuit protection	Yes
design of short-circuit protection	fuse
breaking capacity maximum short-circuit current (Icu)	
• at 400 V rated value	55 kA
 at 500 V rated value 	55 kA
• at 500 V acc. to UL 60947 rated value	100 kA

breaking capacity maximum short-circuit current (Icu)	
in the IT network	
 at 400 V rated value 	55 kA
at 500 V rated value	55 kA
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	class A
EMC immunity acc. to IEC 60947-1	Class A
conducted interference	
 due to burst acc. to IEC 61000-4-4 	3 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	4 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV
• due to high-frequency radiation acc. to IEC 61000- 4-6	Class A
field-based interference acc. to IEC 61000-4-3	20 V/m
electrostatic discharge acc. to IEC 61000-4-2	8 kV air discharge
conducted HF interference emissions acc. to CISPR11	Class A for industrial environment
field-bound HF interference emission acc. to CISPR11	Class A for industrial environment
Safety related data	
safety device type acc. to IEC 61508-2	Type B
B10d value	910 000
Safety Integrity Level (SIL) acc. to IEC 61508	3
performance level (PL) acc. to EN ISO 13849-1	е
category acc. to EN ISO 13849-1	4
stop category acc. to DIN EN 60204-1	0
diagnostics test interval by internal test function maximum	600 s
PFH acc. to IEC 61508 relating to SIL	0.000000036 1/h
PFDavg with low demand rate acc. to IEC 61508	0.00000041
hardware fault tolerance acc. to IEC 61508	1
T1 value for proof test interval or service life acc. to IEC 61508	20 y
safe state	Load circuit open
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
adjustable current response value current of the current-dependent overload release	4 12 A
minimum load [%]	50 %; from smallest adjustable rated current
type of the motor protection	solid-state
operating voltage rated value	48 500 V
relative symmetrical tolerance of the operating voltage	10 %
operating frequency 1 rated value	50 Hz
operating frequency 2 rated value relative symmetrical tolerance of the operating	60 Hz 5 %
relative positive tolerance of the operating frequency	5 %
relative negative tolerance of the operating frequency	5 %
operational current at AC at 400 V rated value	12 A
ampacity when starting maximum	100 A
operating power for 3-phase motors at 400 V at 50 Hz	2.2 5.5 kW
Inputs/ Outputs	
number of digital inputs	5
• note	4 via 3DI/LC module
safety-related	1
type of input characteristic	Type 1 in accordance with EN 61131-2
input voltage at digital input	
at DC rated value	24 V

• with signal < > a DC • for signal < > to a top and < > to stop and < > to s		
Imput current at digital input for signal <1> typical Supply voltage of the supply voltage supply voltage 1 at DC rated value - iminimum permissible - maximum permissible - imaximum permissible	-	
Supply voltage of the supply voltage supply voltage 1 at DC rated value • minimum permissible		
Supply voltage of the supply voltage DC		0.009 A
supply voltage 1 at DC rated value iminimum permissible imaximum permissible supply voltage at DC rated value of supply voltage in standby mode of operation at switching on of motor at switching on of motor at switching state OFF with bypass circuit in switching state OFF with switch switching state of with switc	Supply voltage	
maximum permissible amaximum permissible supply voltage at DC rated value onsumed current for rated value of supply voltage in stands) mode of operation during state OFF with yopses circuit in switching state OFF with yopses circuit in switching state ON with bypass circuit in switching state ON with bypass circuit in switching state ON with bypass circuit in switching state OFF with yopses discovered with yopses circuit in switching state OFF with yopses discovered with yopsession yopsession in switching state OFF with yopsession yopsession yopsession in switching state OFF with yopsession y	type of voltage of the supply voltage	DC
maximum permissible supply voltage at DC rated value consumed current for rated value of supply voltage in standby mode of operation	supply voltage 1 at DC rated value	
supply votage at DC rated value consumed current for fated value of supply votage in standhing mode of operation during operation during operation during operation during operation standhing state OFF with bypass circuit in switching state OFF with bypass circuit in switching state OFF with bypass circuit duration of finish current peak at 24 V duration of finish current peak at 25 N Gesponse times OFF-delay time OFF-delay time OFF-delay time with safety-related request when switched off via control inputs maximum when switched off via control inputs maximum when switched off via control inputs maximum at 55 ms Soms OFF-delay time with safety-related request when switched off via supply voltage maximum A then switched off via supply voltage maximum at 55 ms Soms OFF-delay time with safety-related request when switched off via supply voltage maximum at 55 ms Soms OFF-delay time with safety-related request when switched off via supply voltage maximum at 55 ms Soms OFF-delay time with safety-related request when switched off via supply voltage maximum at 55 ms Soms OFF-delay time with safety-related request some state of via supply some supp	 minimum permissible 	20.4 V
consumed current for rated value of supply voltage in istandby mode of operation at switching on of motor power loss [W] for rated value of supply voltage in switching state OFF with bypass circuit 3.8 W inrush current peak at 24 V 4.5 A; Observe the manual for group configuration OFF-delay time OFF-delay time OFF-delay time 3.5 50 ms OFF-delay time OFF-delay time with safety-related request when switched off via control inputs maximum when switched off via control inputs maximum synen switched off via supply voltage maximum Fower Electronics operational current at 40 °C rated value 12 A 12 A 12 A 12 A 13 D 12 M 12 A 14 D 15 D 18 D 18 D 18 D 19 A	maximum permissible	28.8 V
in islandly mode of operation during operation at switching on of motor power loss [W] for rated value of supply voltage in switching state OFF with bypass circuit inush current peak at 24 V duration of inrush current peak at 24 V O.145 ms OFF-delay time OFF-delay time OFF-delay time OFF-delay time OFF-delay time with safety-related request when switched off via control inputs maximum when switched off via control inputs maximum when switched off via supply voltage maximum Power Electronics operational current at 40 °C rated value at 55 °C rated value by A at 55 °C rated value at 55 °C rated value by A at 60 °C rated value by A at 60 °C rated value by A installation/ mounting/ dimensions mounting position Statening method height depth required spacing with side-by-side mounting cupwards cumwards c	supply voltage at DC rated value	24 V
during operation at switching on of motor at switching on of motor power loss [W] for rated value of supply voltage in switching state OV with bypass circuit in switching state OV with switching state of switching switchin	consumed current for rated value of supply voltage	
• at switching on of motor power loss [W] for rated value of supply voltage • in switching state OFF with bypass circuit • in switching state ON with bypass circuit • value switching state ON with bypass circuit • value switching of inrush current peak at 24 V 0.145 ms OFF-delay time	 in standby mode of operation 	95 mA
power loss [W] for rated value of supply voltage	 during operation 	160 mA
in switching state OFF with bypass circuit in switching state OFF with bypass circuit in switching state OFF with bypass circuit 2.3 W inrush current peak at 24 V duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration OFF-delay time 35 ms OFF-delay time 35 50 ms OFF-delay time with safety-related request when switched off via control inputs maximum when switched off via supply voltage maximum owhen switched off via supply voltage maximum OFF-delay time with safety-related request when switched off via supply voltage maximum owhen switched off via supply voltage maximum OFF-delay time with safety-related request owhen switched off via supply voltage maximum To ms OFF-delay time with safety-related request owhen switched off via supply voltage maximum To ms To ms OFF-delay time with safety-related request owhen switched off via supply voltage maximum To ms To ms To ms Vertical, horizontal (observe derating) fastening method height 142 mm width OFF-delay time with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side-by-side mounting owher with side side side side side side side side	 at switching on of motor 	250 mA
e in switching state ON with bypass circuit 3.8 W 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V 25 A; Observe the manual for group configuration (duration of inrush current peak at 24 V (duration of inrush current peak at 24 V (duration of inrush safety) (duration of inrush current peak at 24 V (duration of inrush safety) (duration of inrush safety) (duration of inrush safety) (duration of inrush current peak at 24 V (duration of inrush safety) (duration of inrush safet	power loss [W] for rated value of supply voltage	
inrush current peak at 24 V duration of inrush current peak at 24 V 0.145 ms Response times OR-delay time OF-delay time OF-delay time 35 ms OF-delay time 55 ms • when switched off via control inputs maximum • when switched off via supply voltage maximum 120 ms Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 55 °C rated value • at 65 °C rated value • at 60 °C rated va	 in switching state OFF with bypass circuit 	2.3 W
duration of inrush current peak at 24 V Response times OFF-delay time OFF-delay time OFF-delay time with safety-related request • when switched off via control inputs maximum • when switched off via supply voltage maximum • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated	 in switching state ON with bypass circuit 	3.8 W
ON-delay time 35 ms OFF-delay time with safety-related request when switched off via control inputs maximum 55 ms 120	inrush current peak at 24 V	25 A; Observe the manual for group configuration
ON-delay time OFF-delay time with safety-related request • when switched off via control inputs maximum • when switched off via supply voltage maximum • at 40 °C rated value • at 60	duration of inrush current peak at 24 V	0.145 ms
ON-delay time OFF-delay time with safety-related request • when switched off via control inputs maximum • when switched off via supply voltage maximum • at 40 °C rated value • at 60	Response times	
OFF-dolay time with safety-related request • when switched off via control inputs maximum • when switched off via supply voltage maximum • when switched off via supply voltage maximum • at 40 °C rated value • at 50 °C rated value • at 60 °C rated va		35 ms
OFF-delay time with safety-related request • when switched off via supply voltage maximum • when switched off via supply voltage maximum Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 65 °C rated value • at 65 °C rated value • at 60 °C rated value • pa A Installation/ mounting/ dimensions mounting position fastening method height vidth depth 142 mm width 30 mm depth required spacing with side-by-side mounting • upwards • downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported • PROFIBUS DP protocol • PROFIBUS DP protocol • PROFIBUS DP protocol • PROFIBUS PP protocol • PROFIBUS PPROFlenergy measured values • supports PROFlenergy measured values • supports PROFlenergy shutdown 7es		
when switched off via control inputs maximum when switched off via supply voltage maximum 20 ms Power Electronics operational current at 40 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value y A Installation/ mounting/ dimensions mounting position fastening method height 142 mm width 30 mm depth 150 mm required spacing with side-by-side mounting upwards downwards downwards downwards downwards during operation during operation during operation during storage during transport during storage during transport relative humidity during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol Protocol is supported PROFIBUS DP protocol PROFIBUS DP protocol PROFIBUS DP protocol PROFIBUS DP protocol PROFIBUS PROFienergy measured values supports PROFienergy measured values supports PROFienergy measured values supports PROFienergy measured values supports PROFienergy shutdown 12.0 ms 12.4 A. 12.4 A. 12.4 A. 12.5 A. 12.6 A. 12.6 A. 13.6 A. 14.0 A. 15.0 mm 15.0 mm 15.0 mm 15.0 mm 4.00 m; For derating see manual 4.000 m; For derat		
when switched off via supply voltage maximum Power Electronics operational current		55 ms
power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value • year of rated value set of rated value set	•	
operational current • at 40 °C rated value • at 50 °C rated value • at 65 °C rated value • at 65 °C rated value • at 60 °C rated value • An of value • at 60 °C rated value • An of value •		
at 40 °C rated value at 50 °C rated value at 50 °C rated value 9 A Installation/ mounting / dimensions mounting position fastening method height 142 mm width 30 mm depth 150 mm required spacing with side-by-side mounting • upwards • downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport environmental category during operation acc. to IEC 80721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported • PROFIBUS DP protocol Product function • supports PROFlenergy measured values • supports PROFlenergy measured values • supports PROFlenergy shutdown Yes 10 A Vertical, horizontal (observe derating) Pertical, horizontal (observe derating) Product function 9 A Vertical, horizontal (observe derating) 9 A Vertical, horizontal (observe derating) Product function 9 A Vertical, horizontal (observe derating) 10 A Vertical, horizontal (observe derating) 10 A Vertical, horizontal (observe derating) 10 A 4 00 m; For derating see manual 4 000 m; For derating see manual 4 000 m; For deratin		
at 50 °C rated value at 55 °C rated value 9 A 9 A 9 A 9 A Installation/ mounting/ dimensions mounting position fastening method height width 30 mm depth required spacing with side-by-side mounting upwards downwards 60 mm installation affitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 communication Protocol protocol is supported PROFIBUS DP protocol protocol is supported AS-Interface protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown Yes Yes • supports PROFlenergy shutdown 10	•	12 Δ
at 55 °C rated value at 60 °C rated value 9 A installation/ mounting/ dimensions mounting position fastening method pluggable in BaseUnit height width 30 mm depth required spacing with side-by-side mounting upwards downwards 50 mm Ambient conditions installation altitude at height above sea level maximum during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported PROFIBUS DP protocol protocol is supported AS-Interface protocol product function supports PROFlenergy measured values e supports PROFlenergy measured values e supports PROFlenergy shutdown Vertical, por value (observe derating) Vertical, horizontal (observe derating) Vertical, horizontal (observe derating) Vertical, horizontal (observe derating) Vertical, horizontal (observe derating) 142 mm 30 mm 420		
■ at 60 °C rated value 9 A Installation/ mounting/ dimensions mounting position Vertical, horizontal (observe derating) fastening method pluggable in BaseUnit height 142 mm width 30 mm depth 150 mm required spacing with side-by-side mounting • upwards 50 mm Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -25 +60 °C; For derating see manual ambient temperature • during storage -40 +70 °C environmental category during operation acc. to IEC 60721 csand must not get into the devices) relative humidity during operation 10 95 % air pressure acc. to SN 31205 900 1 060 hPa Communication/ Protocol protocol is supported AS-Interface protocol		
Installation mounting / dimensions	at 33 Chateu value	3 A
mounting position Vertical, horizontal (observe derating) fastening method pluggable in BaseUnit height 142 mm width 30 mm depth 150 mm required spacing with side-by-side mounting 50 mm • upwards 50 mm • downwards 50 mm Ambient conditions installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature 0 during operation -25 +60 °C; For derating see manual • during storage -40 +70 °C -40 +70 °C • during transport -40 +70 °C -40 +70 °C environmental category during operation acc. to IEC 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) relative humidity during operation 10 95 % 900 1 060 hPa Communication/ Protocol Yes • PROFIBUS DP protocol <th< td=""><td></td><td>0.4</td></th<>		0.4
fastening method height	at 60 °C rated value	9 A
height width 30 mm depth 150 mm required spacing with side-by-side mounting • upwards • downwards 50 mm Ambient conditions installation altitude at height above sea level maximum • during operation • during storage • during transport • during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFIBUS DP protocol • PROFINET protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown 150 mm 150 mm 4 000 m; For derating see manual 4 000 m; For derat	at 60 °C rated value Installation/ mounting/ dimensions	
width 30 mm depth 150 mm required spacing with side-by-side mounting • upwards • downwards 50 mm Ambient conditions installation altitude at height above sea level maximum 4 000 m; For derating see manual ambient temperature • during operation -25 +60 °C; For derating see manual • during storage -40 +70 °C environmental category during operation acc. to IEC 60721 (sand must not get into the devices) relative humidity during operation and 10 95 % air pressure acc. to SN 31205 900 1 060 hPa Communication/ Protocol protocol is supported • PROFIBUS DP protocol Yes • PROFINET protocol Yes product function bus communication Yes product function supported AS-Interface protocol • supports PROFlenergy measured values • supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position	Vertical, horizontal (observe derating)
depth 150 mm required spacing with side-by-side mounting upwards downwards 50 mm Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport during transport environmental category during operation acc. to IEC 60721 (sand must not get into the devices) relative humidity during operation 10 95 % air pressure acc. to SN 31205 900 1 060 hPa Communication/ Protocol Yes protocol is supported Yes PROFIBUS DP protocol Yes product function bus communication Yes product function bus communication Yes product function supports PROFlenergy measured values Yes supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method	Vertical, horizontal (observe derating) pluggable in BaseUnit
required spacing with side-by-side mounting • upwards • downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported • PROFIBUS DP protocol protocol is supported AS-Interface protocol product function bus communication • supports PROFlenergy measured values • supports PROFlenergy shutdown 50 mm 4 000 m; For derating see manual 4 00 +70 °C 25 +60 °C; For derating see manual 4 0 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 7K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 8 W6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 900 1 060 hPa 7ES PROFIBUS DP protocol Protocol Protocol Product function bus communication 9 Yes 9 No Product function bus communication • supports PROFlenergy measured values • supports PROFlenergy shutdown	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm
• upwards • downwards 50 mm Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol product function bus communication product function • supports PROFlenergy measured values • supports PROFlenergy shutdown **Sometimes** **Sometimes** **Sometimes** **Sometimes** **A 000 m; For derating see manual **A 000 m; For derating see man	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm
odwnwards Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage oduring transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported oPROFIBUS DP protocol product function bus communication osupports PROFlenergy measured values osupports PROFlenergy shutdown oduring transport -25 +60 °C; For derating see manual -25 +70 °C -40 +70 °C -3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % introduction of the devices o	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported • PROFIBUS DP protocol protocol is supported AS-Interface protocol protocol is supported AS-Interface protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown 4 000 m; For derating see manual 4 00 m; For derating see manual 10 m; For deratin	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during tran	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • upwards	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm
ambient temperature • during operation • during storage • during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol PROFINET protocol protocol is supported AS-Interface protocol protocol is supported AS-Interface protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown -25 +60 °C; For derating see manual -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes Yes Yes • supports PROFlenergy measured values Yes • supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting aupwards additional order of the state of	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm
 during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 PROFIBUS DP protocol PROFINET protocol PROFINET protocol Product function bus communication product function supported AS-Interface protocol product function supports PROFlenergy measured values supports PROFlenergy shutdown 	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm
 during storage during transport during transport environmental category during operation acc. to IEC 60721 gentive humidity during operation air pressure acc. to SN 31205 good 1 060 hPa Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET protocol Product function bus communication product function supported AS-Interface protocol product function supports PROFlenergy measured values supports PROFlenergy shutdown Yes supports PROFlenergy shutdown 	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm
 during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 protocol is supported PROFIBUS DP protocol PROFINET protocol product function bus communication product function supports PROFlenergy measured values supports PROFlenergy shutdown yes supports PROFlenergy shutdown Yes yes supports PROFlenergy shutdown 	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual
environmental category during operation acc. to IEC 60721 SK6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) relative humidity during operation 10 95 % air pressure acc. to SN 31205 900 1 060 hPa Communication/ Protocol protocol is supported • PROFIBUS DP protocol Yes • PROFINET protocol Yes product function bus communication Yes protocol is supported AS-Interface protocol No product function • supports PROFlenergy measured values Yes • supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting aupwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual
relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported PROFIBUS DP protocol Product function bus communication product function supports PROFlenergy shutdown (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes Yes Yes Yes Yes Ye	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting aupwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C
air pressure acc. to SN 31205 Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET protocol product function bus communication protocol is supported AS-Interface protocol Product function supports PROFlenergy measured values supports PROFlenergy shutdown 900 1 060 hPa Yes Yes Yes Yes Yes Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting aupwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 50 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C
Communication/ Protocol protocol is supported ● PROFIBUS DP protocol Yes ● PROFINET protocol Yes product function bus communication Yes protocol is supported AS-Interface protocol No product function No e supports PROFlenergy measured values Yes e supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting aupwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 50 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices)
protocol is supported PROFIBUS DP protocol PROFINET protocol Product function bus communication Protocol is supported AS-Interface protocol Product function Supports PROFlenergy measured values Supports PROFlenergy shutdown Yes Supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting a upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
PROFIBUS DP protocol PROFINET protocol Yes product function bus communication protocol is supported AS-Interface protocol product function supports PROFlenergy measured values supports PROFlenergy shutdown Yes Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting a upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
 ◆ PROFINET protocol ✓ product function bus communication ✓ protocol is supported AS-Interface protocol ✓ product function ✓ supports PROFlenergy measured values ✓ supports PROFlenergy shutdown ✓ Yes 	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting a upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
product function bus communication protocol is supported AS-Interface protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
protocol is supported AS-Interface protocol Product function • supports PROFlenergy measured values • supports PROFlenergy shutdown Yes Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa
product function	■ at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting ■ upwards ■ downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature ■ during operation ■ during storage ■ during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported ■ PROFIBUS DP protocol	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa
 supports PROFlenergy measured values supports PROFlenergy shutdown Yes 	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa
• supports PROFlenergy shutdown Yes	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET protocol product function bus communication	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes
	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET protocol product function bus communication protocol is supported AS-Interface protocol	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes
	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes Yes
and the space memory of addition family	at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting upwards downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport environmental category during operation acc. to IEC 60721 relative humidity during operation air pressure acc. to SN 31205 Communication/ Protocol protocol is supported PROFIBUS DP protocol PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function supports PROFlenergy measured values	Vertical, horizontal (observe derating) pluggable in BaseUnit 142 mm 30 mm 150 mm 50 mm 4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes Yes No

• of the inputs	4 byte
 of the outputs 	2 byte
type of electrical connection of the communication interface	Plug contact to Base Unit
Connections/ Terminals	
type of electrical connection	
 1 for digital input signals 	Pluggable module - accessory
2 for digital input signals	Plug contact to Base Unit
type of electrical connection	
 for main energy infeed 	Plug contact to Base Unit
 for load-side outgoing feeder 	Plug contact to Base Unit
 for supply voltage line-side 	Plug contact to Base Unit
wire length for motor unshielded maximum	200 m
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor at 480 V rated value	12 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
 — at 110/120 V rated value 	0.5 hp
— at 230 V rated value	2 hp
 for 3-phase AC motor 	
 — at 200/208 V rated value 	2 hp
 at 220/230 V rated value 	3 hp
— at 460/480 V rated value	7.5 hp
operating voltage at AC at 60 Hz acc. to CSA and UL rated value	480 V
Certificates/ approvals	



General Product Approval









EMC



For use in hazard-

ous locations

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



Type Test Certificates/Test Report







Marine / Shipping

other

Dangerous Good



Confirmation



<u>Transport Information</u>

Profibu:

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

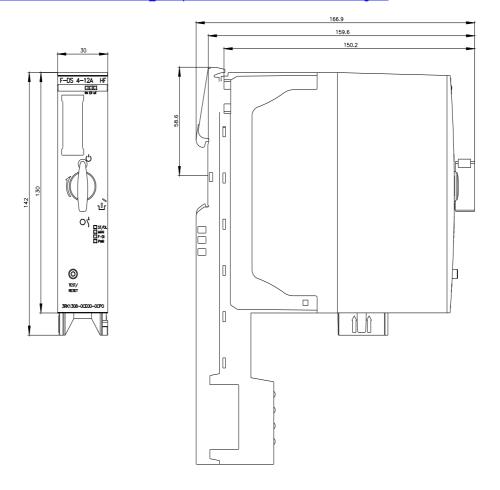
Industry Mall (Online ordering system)

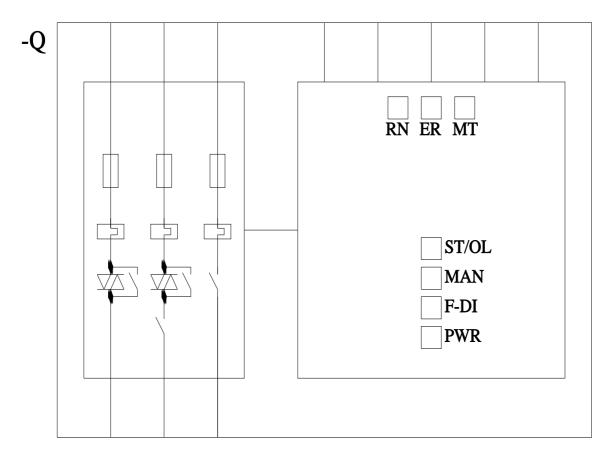
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0CE00-0CP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0CE00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CE00-0CP0





last modified: 10/22/2021 🖸