Fail-safe direct-on-line starter Electronic switching Electronic overload protection up to 0.25 kW/400 V 0.3 A to 1 A High-Feature option: 3DI/LC module PROFlenergy



Figure similar

Product brand name	SIMATIC
Product category	Motor starter
Product designation	Fail-safe direct-on-line starter
Product type designation	ET 200SP

General technical data	
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 	0.02 W
Insulation voltage	
• rated value	500 V
Degree of pollution	2
Overvoltage category	III

maximum permissible voltage for safe isolation • between main and auxiliary circuit Protection class IP Shock resistance (9g / 11 ms 15 mm to 6 Hz; 2g to 500 Hz Mechanical service life (switching cycles) • of the main contacts typical 15 000 000 Type of assignment 1 Usage category • acc. to IEC 60947-4-2 Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN 180 81346-2 A Product function • direct start • reverse starting Product function Short circuit protection Passion of short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 500 V rated value • at 500 V rated value • at 600	Surge voltage resistance rated value	6 kV
Protection class IP IP20 Shock resistance 6g / 11 ms Vibration resistance 15 mm to 6 Hz; 2g to 500 Hz Mechanical service life (switching cycles) 15 mm to 6 Hz; 2g to 500 Hz • of the main contacts typical 15 000 000 Type of assignment 1 Usage category • acc. to IEC 60947-4-2 AC53a: 1A: (8-0.7: 70-32) Reference code acc. to DIN 40719 extended acocording to IEC 204-2 acc. to IEC 750 A Reference code acc. to DIN EN 61346-2 A Product function • direct start Yes • reverse starting No Product function Short circuit protection Yes Product function Short circuit protection Yes Product function Short circuit protection Yes It picks LASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (lcu) • at 500 V rated value 55 kA • at 500 V rated value 55 kA • 4 500 V rated value 56 kA • at 500 V rated value 55 kA • 56 kA EMI immunity acc. to IEC 60947-1 Class A Conducted interference	maximum permissible voltage for safe isolation	
Shock resistance 6g / 11 ms 15 mm to 6 Hz; 2g to 500 Hz	 between main and auxiliary circuit 	500 V
Vibration resistance Mechanical service life (switching cycles) of the main contacts typical 15 000 000 Type of assignment Usage category acc. to IEC 60947-4-2 Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 61346-2 AProduct function direct start reverse starting Product function Short circuit protection Product function Short circuit protection Type at 400 V rated value at 500 V vacted value at 500 V vacted value at 500 V vacted value at 500 V vacted value at 500 V vacted value bat 55 kA 100 kA Maximum short-circuit current breaking capacity (lcu) Maximum short-circuit current breaking capacity (lcu) Maximum short-circuit current breaking capacity (lcu) at 400 V rated value at 500 V vacted value at 500 V rated value bat 55 kA 55	Protection class IP	IP20
worknamical service life (switching cycles) of the main contacts typical Type of assignment Usage category oc. to IEC 60947-4-2 Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 61346-2 Product function olirect start reverse starting Product component Motor brake output reverse starting Product component Motor brake output reverse starting Product function Short circuit protection Tip class Maximum short-circuit current breaking capacity (tcu) at 400 V rated value oct 55 kA st 500 V rated value oct 55 kA Maximum short-circuit current breaking capacity (icu) the IT network at 400 V rated value oct 55 kA St A Electromagnetic compatibility EMC emitted interference oct to IEC 60947-1 Class A Conducted interference oct cust conductor-centrustrus register to IEC 61000-4-5 oct due to conductor-cenductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct oct due to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge acc. to IEC 61000-4-5 oct due to conductor-conductor surge	Shock resistance	6g / 11 ms
● of the main contacts typical 15 000 000	Vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
Type of assignment	Mechanical service life (switching cycles)	
Usage category • acc. to IEC 60947-4-2 AC53a: 1A: (8-0,7: 70-32) Reference code acc. to DIN 40719 extended cocording to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 61346-2 AProduct function • direct start • reverse starting No Product component Motor brake output No Product function Short circuit protection Design of short-circuit protection Trip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 600 V rated value • 55 kA Elemantical interference • acc. to IEC 60947-1 Class A EMI immunity acc. to IEC 60947-1 Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-5 • due to bigh-frequency radiation acc. to IEC 61000-4-5 • due to bigh-frequency radiation acc. to IEC 61000-4-5 • due to bigh-frequency radiation acc. to IEC 61000-4-5	 of the main contacts typical 	15 000 000
	Type of assignment	1
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 61346-2 Product function officet start reverse starting No Product component Motor brake output Product function Short-circuit protection Design of short-circuit protection Trip class Maximum short-circuit current breaking capacity (Icu) otat 400 V rated value otat 500 V acc. to UL 60947 rated value that 100 V rated value otat 400 V rated value otat 500 V rated value otat 600 V rated value otat 600 V rated value otat 400 V rated value otat 600 V ra	Usage category	
according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 61346-2 Product function • direct start • reverse starting Product component Motor brake output Product function Short-circuit protection Fuse CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V acc. to UL 60947 rated value 100 kA Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • 55 kA • at 500 V rated value • 55 kA **Star* **Celectromagnetic compatibility **EMC emitted interference • acc. to IEC 60947-1 Class A **EMI immunity acc. to IEC 60947-1 Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parastit coupling acc. to IEC 61000-4-3 20 V/m	• acc. to IEC 60947-4-2	AC53a: 1A: (8-0,7: 70-32)
Reference code acc. to DIN EN 61346-2 Product function • direct start • reverse starting Product component Motor brake output Product function Short circuit protection Pessign of short-circuit protection Trip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • 35 kA Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Class A Conducted interference • due to burst acc. to IEC 60904-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to bigh-frequency radiation acc. to IEC 61000-4-5 • due to bigh-frequency radiation acc. to IEC 61000-4-5 • due to bigh-frequency radiation acc. to IEC 61000-4-3 Field-bound parasitic coupling acc. to IEC 61000-4-3	Reference code acc. to DIN 40719 extended	Q
Product function • direct start • reverse starting Product component Motor brake output Product function Short circuit protection Design of short-circuit protection Trip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V acc. to UL 60947 rated value • at 500 V rated value • at 500 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • 55 kA • at 500 V rated value • 55 kA • at 500 V rated value • 56 kA Class A Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-carth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 Field-bound parasitic coupling acc. to IEC 61000-4-3		
• direct start • reverse starting No Product component Motor brake output No Product function Short circuit protection Product function Short circuit protection Use Design of short-circuit protection Trip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V acc. to UL 60947 rated value 100 kA Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • at 550 kA • at 500 V arted value • at 550 kA Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Class A EMI immunity acc. to IEC 60947-1 Class A Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-carth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m		A
Product component Motor brake output Product component Motor brake output Product function Short circuit protection Product function Short circuit protection Product function Short circuit protection Fuse CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated value • at 500 V rated value Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Class A Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-6 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	Product function	
Product component Motor brake output Product function Short circuit protection Product function Short circuit protection Design of short-circuit protection Fitip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 500 V acc. to UL 60947 rated value Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • at 500 V rated value • at 500 V rated value • 55 kA • at 500 V rated value Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Class A EMI immunity acc. to IEC 61000-4-4 • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3	• direct start	Yes
Product function Short circuit protection Design of short-circuit protection Trip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V acc. to UL 60947 rated value • at 500 V acc. to UL 60947 rated value 100 kA Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • at 500 V rated value • 55 kA • at 500 V rated value 55 kA • at 500 V rated value 55 kA Class A Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-6 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3	• reverse starting	No
Design of short-circuit protection Trip class CLASS 5 and 10 adjustable Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V acc. to UL 60947 rated value 100 kA Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • at 500 V ared value 55 kA • at 400 V rated value 55 kA • at 500 V rated value 55 kA • at 500 V rated value 55 kA • at 500 V rated value 55 kA • at 600 V rated value Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1	Product component Motor brake output	No
Trip class Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 500 V acc. to UL 60947 rated value Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • at 500 V rated value 55 kA • at 400 V rated value 55 kA • at 500 V rated value 55 kA • at 500 V rated value Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Class A EMI immunity acc. to IEC 60947-1 Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	Product function Short circuit protection	Yes
Maximum short-circuit current breaking capacity (Icu) • at 400 V rated value • at 500 V rated value • at 500 V acc. to UL 60947 rated value Maximum short-circuit current breaking capacity (Icu) in the IT network • at 400 V rated value • 55 kA • at 500 V rated value 55 kA • at 500 V rated value 55 kA • at 400 V rated value 55 kA Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 Class A Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m		
at 400 V rated value at 500 V rated value at 500 V acc. to UL 60947 rated value In the IT network at 400 V rated value at 400 V rated value 55 kA at 400 V rated value 55 kA at 400 V rated value 55 kA at 500 V rated value 55 kA clectromagnetic compatibility EMC emitted interference acc. to IEC 60947-1 Class A EMI 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 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	•	CLASS 5 and 10 adjustable
at 500 V rated value at 500 V acc. to UL 60947 rated value Maximum short-circuit current breaking capacity (Icu) in the IT network at 400 V rated value 55 kA at 500 V rated value 55 kA eat 500 V rated value 55 kA Electromagnetic compatibility EMC emitted interference acc. to IEC 60947-1 Class A Conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-carth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	Maximum short-circuit current breaking capacity (Icu)	
at 500 V acc. to UL 60947 rated value Maximum short-circuit current breaking capacity (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 EMI immunity acc. to IEC 60947-1 Conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	● at 400 V rated value	55 kA
Maximum short-circuit current breaking capacity (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 EMI immunity acc. to IEC 60947-1 Class A Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	• at 500 V rated value	55 kA
in the IT network • at 400 V rated value • at 500 V rated value 55 kA Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 class A EMI immunity acc. to IEC 60947-1 Class A Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3	● at 500 V acc. to UL 60947 rated value	100 kA
at 400 V rated value 55 kA to at 500 V rated value Electromagnetic compatibility EMC emitted interference acc. to IEC 60947-1 class A EMI immunity acc. to IEC 60947-1 Conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m		
at 500 V rated value Electromagnetic compatibility EMC emitted interference	in the IT network	
Electromagnetic compatibility EMC emitted interference • acc. to IEC 60947-1 class A EMI 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 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	• at 400 V rated value	55 kA
EMC emitted interference • acc. to IEC 60947-1 class A EMI 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 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m	● at 500 V rated value	55 kA
 acc. to IEC 60947-1 Class A Conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m 	Electromagnetic compatibility	
EMI immunity acc. to IEC 60947-1 Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3	EMC emitted interference	
Conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 2 kV Class A	• acc. to IEC 60947-1	class A
 due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 2 kV Class A Field-bound parasitic coupling acc. to IEC 61000-4-3 	EMI immunity acc. to IEC 60947-1	Class A
 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 2 kV Class A Eld-bound parasitic coupling acc. to IEC 61000-4-3 	Conducted interference	
61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 2 kV Class A 20 V/m	• due to burst acc. to IEC 61000-4-4	3 kV
61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m		4 kV
61000-4-6 Field-bound parasitic coupling acc. to IEC 61000-4-3 20 V/m		2 kV
		Class A
Electrostatic discharge acc. to IEC 61000-4-2 8 kV air discharge	Field-bound parasitic coupling 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	Class A for industrial environment
CISPR11	
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	6 000 000
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	0.0000041
Hardware fault tolerance acc. to IEC 61508	1
Service life maximum	20 y
Safe state	Load circuit open
Protection against electrical shock	finger-safe
Inputs/ Outputs	
Number of digital inputs	5
• Note	4 via 3DI/LC module, 1 F-DI
• safety-related	1
Input voltage at digital input	
• at DC rated value	24 V
• with signal <0> at DC	0 5 V
• for signal <1> at DC	15 30
Input current at digital input	
• for signal <1> typical	0.009 A
Response times	
Switch-on delay time	35 ms
Off-delay time	35 50 ms
Off-delay time with safety-related request	
 when switched off via control inputs maximum 	55 ms
 when switched off via supply voltage maximum 	120 ms
Main circuit	
Number of poles for main current circuit	3
Design of the switching contact	Hybrid
Adjustable pick-up value current of the current-	0.3 1 A
dependent overload release	EO 9/
Minimum load [%]	50 %
Type of the motor protection	solid-state

Operating voltage	
• rated value	48 500 V
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
Relative symmetrical tolerance of the operating	5 %
frequency	
Operating range relative to the operating voltage at AC	
• at 50 Hz	48 500 V
Operating current	10 000 V
• at AC at 400 V rated value	1 A
Ampacity when starting maximum	10 A
Supply voltage	
Type of voltage of the supply voltage	DC
Supply voltage 1 at DC rated value	
minimum permissible	20.4 V
maximum permissible	28.8 V
Supply voltage at DC rated value	24 V
Consumed current for rated value of supply voltage	
• in standby mode	95 mA
during operation	160 mA
when switching on	250 mA
Power loss [W] for rated value of supply voltage	
 in switching state OFF with bypass circuit 	2.3 W
 in switching state ON with bypass circuit 	3.8 W
nstallation/ mounting/ dimensions	
Mounting position	Vertical, horizontal, flat (observe derating)
Mounting type	pluggable in BaseUnit
Height	142 mm
Width	30 mm
Depth	150 mm
Required spacing	
with side-by-side mounting	
— upwards	50 mm
— downwards	50 mm
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m; For derating see manual
Ambient temperature	
during operation	-25 +60 °C
during operation maximum	For derating see manual

during storage	-40 +70 °C
during transport	-40 +70 °C
Environmental category during operation acc. to IEC	3K6 (no formation of ice, no condensation), 3C3 (no salt mist),
60721	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
address range memory of address range	
• 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 three-phase AC motor	
• at 480 V rated value	1 A
Current with locked rotor (LRA) for three-phase AC motor at 480 V rated value	8 A
Operating voltage	

Certificates/approvals

• at AC at 60 Hz acc. to CSA and UL rated value

480 V

General Product Approval

EMC

For use in hazardous locations







Test







Functional
Safety/Safety
of Machinery

Declaration of Conformity

Marine / Shipping

Type Examination
Certificate



Type Test
Certificates/Test
Report

Certificates







other

Confirmation

PROFINET-Certification

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

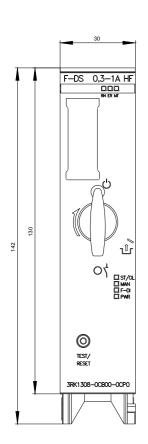
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0CB00-0CP0

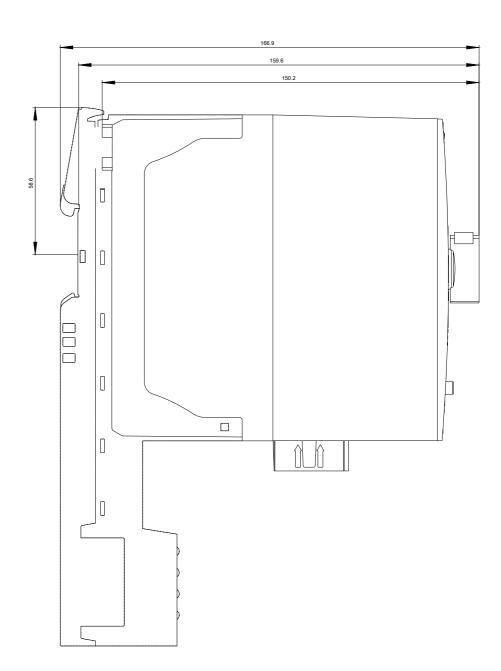
Cax online generator

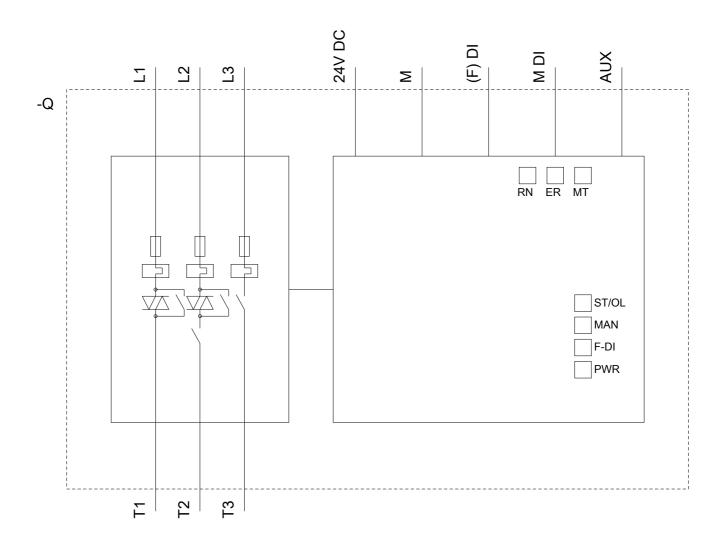
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0CB00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CB00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0CB00-0CP0&lang=en







last modified: 08/09/2018