

RS for ET 200SP Reversing starter Expandable Setting range
2.8...9A AC-3, 4 kW / 400 V Hybrid starter



Figure similar

product brand name	SIMATIC
Product designation	Motor starters
General technical data:	
Product function	Reversing starter
• on-site operation	Yes
• Intrinsic device protection	Yes
• Adjustable current limitation	Yes
• Remote firmware update	Yes
• for power supply Reverse polarity protection	Yes
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
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) <ul style="list-style-type: none"> • of the main contacts typical 	30 000 000
Type of assignment	1
Usage category <ul style="list-style-type: none"> • acc. to IEC 60947-4-2 • acc. to IEC 60947-4-3 	AC53a: 9A: (8-0,7: 70-32) AC51: 9A: (1,2-10: 50-360)
Equipment marking <ul style="list-style-type: none"> • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 • acc. to DIN EN 61346-2 	Q A
Product function <ul style="list-style-type: none"> • direct start • reverse starting 	Yes Yes
Product function Short circuit protection	Yes
Design of short-circuit protection	fuse
Trip class	CLASS 5 and 10 adjustable
Maximum short-circuit current breaking capacity (Icu) <ul style="list-style-type: none"> • at 400 V rated value • at 500 V rated value • at 500 V acc. to UL 60947 rated value 	55 kA 55 kA 100 kA

Electromagnetic compatibility:

EMC emitted interference <ul style="list-style-type: none"> • acc. to IEC 60947-1 	class A
Conducted interference <ul style="list-style-type: none"> • 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 	2 kV 2 kV 1 kV
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 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

Inputs/ Outputs:

Number of digital inputs	4
---------------------------------	---

Main circuit:

Number of poles for main current circuit	3
Design of the switching contact	Hybrid

Adjustable pick-up value current of the current-dependent overload release	2.8 ... 9 A
Minimum load [% of IM]	20 %
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
Operating range relative to the operating voltage at AC	
• at 50 Hz	48 ... 500 V
Operating current	
• at AC at 400 V rated value	9 A
Operating power	
• for three-phase motors at 400 V at 50 Hz minimum	0.9 kW
• for three-phase motors at 400 V at 50 Hz maximum	4 kW

Supply voltage:

Type of voltage of the supply voltage	DC
--	----

Control circuit/ Control:

Type of voltage of the control supply voltage	DC
Control supply voltage 1	
• at DC rated value	20.4 ... 28.8 V
Control current	
• at DC in standby mode	85 mA
• at DC during operation	140 mA
• at DC when switching on	230 mA
Switch-on delay time	20 ... 25 ms
Off-delay time	20 ... 35 ms
Power loss [W] in auxiliary and control circuit	
• in switching state OFF	
— with bypass circuit	1.6 W
— without bypass circuit	0 W
• in switching state ON	
— with bypass circuit	2.9 W
— without bypass circuit	0 W

Installation/ mounting/ dimensions:





Mounting type	pluggable in BaseUnit
Height	142 mm
Width	30 mm
Depth	150 mm

Required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — upwards — downwards 	50 mm 50 mm
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-25 ... +60 °C -40 ... +70 °C -40 ... +70 °C
Relative humidity during operation	10 ... 95 %
Air pressure	
<ul style="list-style-type: none"> • acc. to SN 31205 	900 ... 1 060 hPa
Communication/ Protocol:	
Product function Bus communication	Yes
Protocol	
<ul style="list-style-type: none"> • is supported PROFIBUS DP protocol • is supported PROFINET protocol 	Yes Yes
Product function	
<ul style="list-style-type: none"> • supports PROFlenergy measured values • supports PROFlenergy shutdown 	Yes Yes
Connections/ Terminals:	
Type of electrical connection	
<ul style="list-style-type: none"> • for main energy infeed • for load-side outgoing feeder • for supply voltage line-side 	Plug contact to Base Unit Plug contact to Base Unit 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	
<ul style="list-style-type: none"> • at 480 V rated value 	9 A
Yielded mechanical performance [hp]	
<ul style="list-style-type: none"> • for single-phase AC motor <ul style="list-style-type: none"> — at 110/120 V rated value — at 230 V rated value • for three-phase AC motor <ul style="list-style-type: none"> — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value 	0.3 hp 0.75 hp 2 hp 2 hp 5 hp
Operating voltage	

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

480 V

Certificates/approvals

General Product Approval			Declaration of Conformity	Test Certificates	other
				Typprüfbescheinigung/Werkszeugnis	Bestätigungen
CCC	CSA	UL	EG-Konf.		

other

[PROFINET-Zertifizierung](#)

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=3RK13080BD000CP0>

Cax online generator

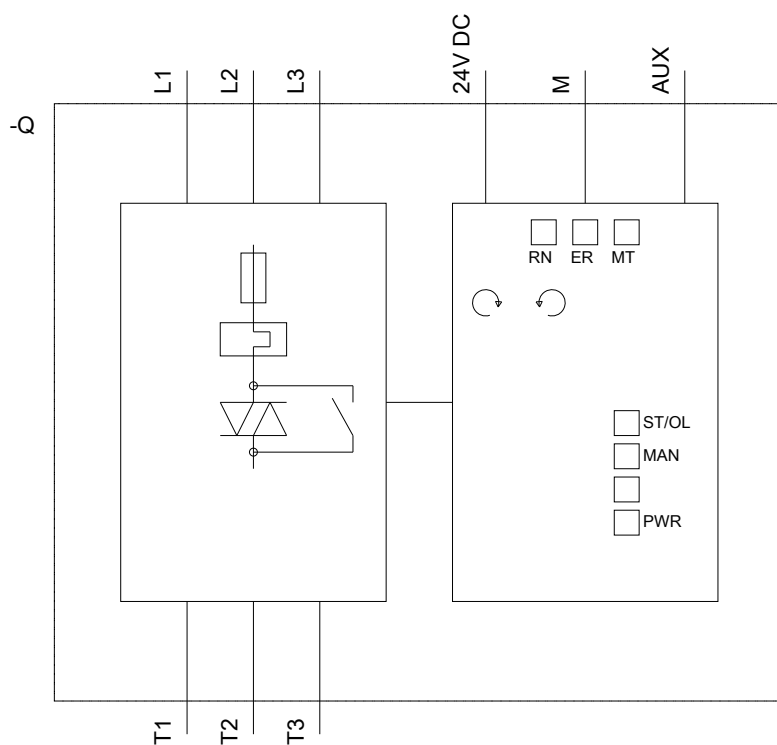
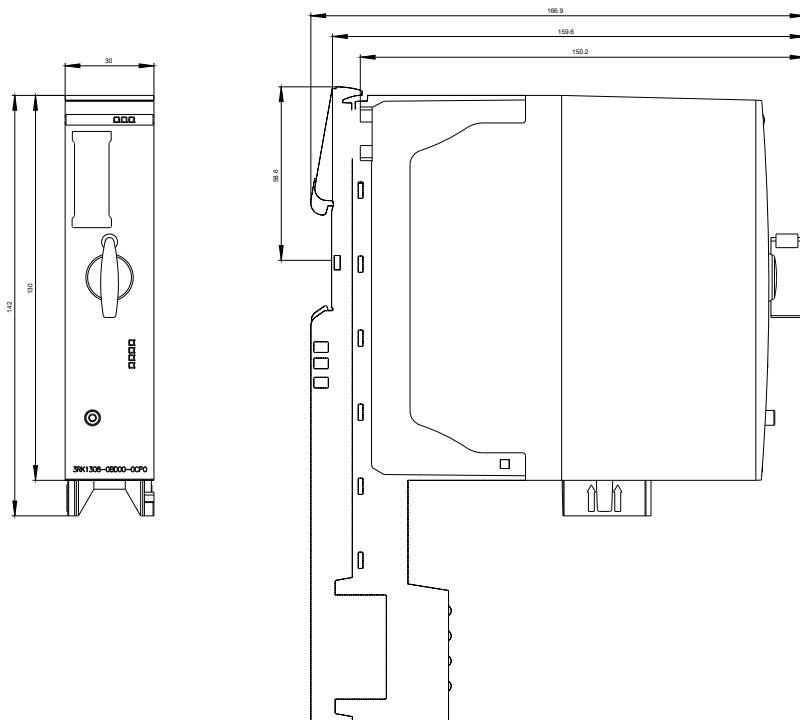
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK13080BD000CP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK13080BD000CP0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK13080BD000CP0&lang=en



last modified:

22.06.2016