SHCKELE

SCKR1–6000 ‣

◄ SCKR1–6000

On–line intelligent motor soft starter

● Product Overview

➤ SCKR1-6000 chin starter has 6 starting modes, 12 protection functions and two vehicle modes。

➤ MCU as the core, intelligent digital control, suitable for various loads of the mouse asynchronous motor starting; Can make the motor under any conditions can smooth starting, is female of protection drag system, reduce the starting current impact on power grid, to ensure reliable motor self-starting: smooth and stop, can eliminate the drag system of the inertial impact::

● Product Technical Features

➤ Main loop operating voltage：AC380V(+10％~- 25％);

➤ Main loop operating current：22A ~ 560A;

➤ Main loop frequency：50Hz/60Hz(±2％);

➤ Soft start rise time：2 ~ 60s；

➤ Soft stop time：0 ~ 60s;

➤ Current limiting factor：1.5 ~ 5.0Ie;

➤ Start voltage：30％~70％Ue；

➤ Cooling mode：The fan cooling;

➤ Conmunication：RS485 serial communications;

Start-up time：≤20/hour

● Technical Feature

➤ six starting parameters are optional to facilitate one motor soft starter to start different motor loads;

➤ Dynamic fault memory function, easy to find the cause of fault；

➤ Comprehensive motor protection functions;

➤ LED or LED display;

➤ Profibus/Modbus Two communication protocols are available;

➤ 1 compact structure design, easy to install, easy to use;

➤ Menu tree is grouped by function, which is easy to operate;

● Snap action mode

Output waveform of jump start mode.This starting mode can be selected when the motor cannot be started under some heavy load due to the influence of static friction force.When starting, first apply a high fixed voltage to the motor for a limited period of time to overcome the static friction force of the motor load to make the motor rotate, and then start in the way of limiting current (figure 1) or voltage slope (figure 2).
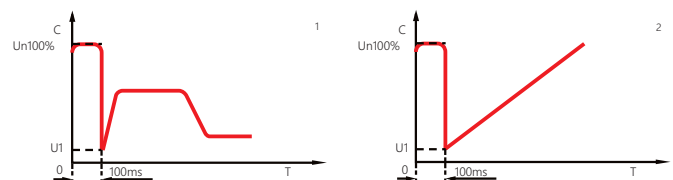
SCKR1- 6000- 7.5kW~45kW

SCKR1- 6000- 55kW~90kW

SCKR1- 6000-115kW~160kW

SCKR1- 6000-185kW~280kW

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◉ Real – time language display

SCKR1-6000 displays feedback in real language and you don't have to look up the code to see what's going on.With a real-time metering display and 10 event logs, tracking motor performance has never been easier.

◉ Remote display installation

With an optional panel mounting kit, the panel is easily mounted outside the cabinet.Multiple monitors can also be mounted side by side to quickly diagnose problems.(after installation, the protection level is IP65)obtained.

◉ Overdrive is more intelligent

Sckr1-6000 allows you to control motor start.You can choose the best soft start control method according to the application requirements.

◉ Stop smoother

The CPU can also precisely control the soft stop, suitable for applications that require a smoother soft stop. hammer effects.

◉ Easier installation

 The space of the motor control center is limited, the compact design of sckr1-6000 can save 70% of the space, no bypass contactor, and more than 30% of the primary and secondary line and labor costs.
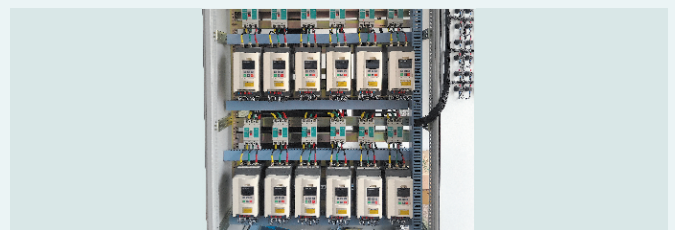
◉ Removable connectors and unique connectors

With plug - and - pull control wiring bar, it is easy to install.Simply unplug each wiring bar and reinsert the wiring bar after connecting.The unique flexible cable routing method of sckr1-6000 can be used to arrange the cable effectively.

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▶ Faster Adjust

It's not surprising that sckr1-6000 was designed with the ease of use menu in mind.After installation, the quick Settings menu helps you configure the starter for common applications.

▶ cooling innovation

The high speed fan and in and out wind heat dissipation grille, 360 degrees omni-directional heat dissipation, when the soft start start fan high-speed operation, the soft start stop fan five minutes automatically stop operation.

▶ Software innovation

he intelligent mainboard can be used in a wider range of applications. However, it can be used in remote areas, and the device cannot be started due to low voltage or unstable voltage. The intelligent mainboard can realize the normal starting require.

▶ Conmunication innovation

RJ-45,DB9 and other plugins, built-in RS485 and RS232 interfaces, provide Chinese upper computer software for remote debugging and control.

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❷ Start mode and protection level

Limited current starting mode

Voltage starting mode

The current slope

double closed-loop

Jump + current limit

Jump + voltage

Output protection level

Primary protection, light load protection, Standard protection, overload protection, Advanced protection

⊘ Soft starter function introduction

High speed fan

Suspension bayonet position

Heat dissipation outlet

Detachable panel

LCD display

Communication 485

Key operation panel

Grille

Pluggable terminal

High conduction terminal

⊙ Starting function

➤ Current ramp starting mode
➤ Kick start

⊙ Stop function

➤ Slide soft stop

⊙ Operating panel

➤ Remote installation options
➤ Legible screen
➤ Multilingual selection

⊙ Protect

➤ Fully customizable protection
➤ Owe current
➤ Instantaneous overcurrent
➤ Radiator overheating
➤ Start time timeout
➤ mains frequency
➤ power circuit
➤ Electrical connection
➤ Rs485 malfunction
➤ Motor overload
➤ Current unbalance

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● External wiring diagram

➤ General

current range .... 23A- 560A（rated ）

➤ power supply

mains input（R,S,T ）

➤Terminal (1) and (2) are by-pass outputs: used for controlling operation indication (output) : AC250V/5A。

➤ Terminal ((3), (4) for programmable relay output: delay time by setting items

FTerminal ((3), (4) for programmable relay output:

➤delay time by setting items

F4 setting, the output time is set by setting item FJ.Is normally open passive

➤ Contact, closed when output is valid.

The contact capacity is AC250V/5A.

Terminal 5, 6 for the fault output: soft start cabinet failure or loss of power

➤When closed, when working normally open, for passive contact.

➤The contact capacity is AC250V/ 0.3a.

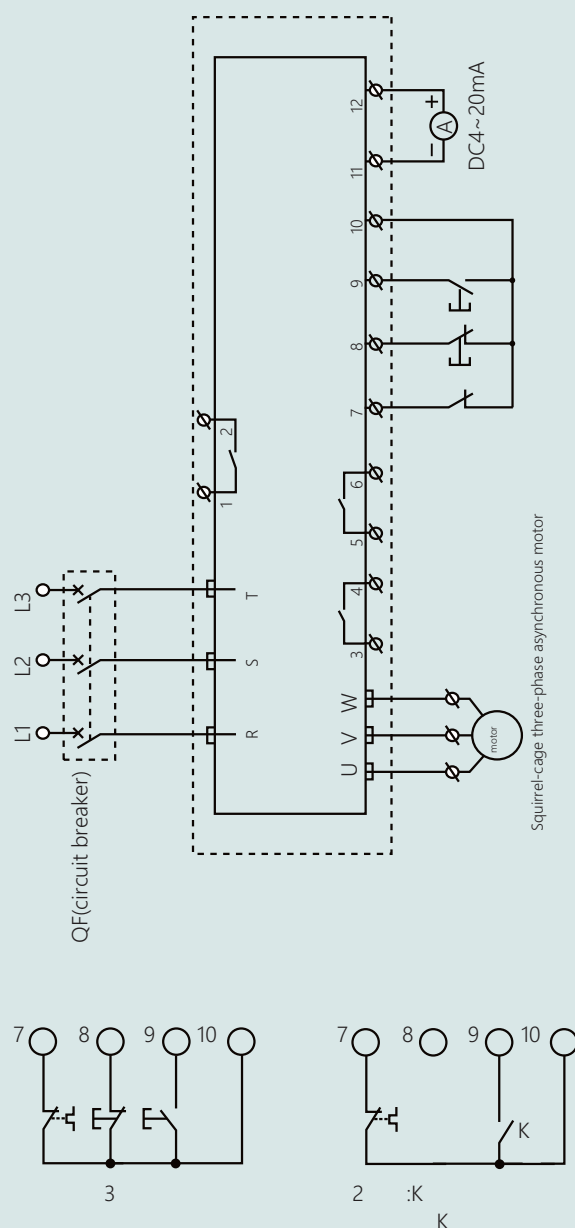7 terminal for instantaneous stop output: soft starter normal operation of this terminal

➤Must be clipped with the terminal.If the terminal and the terminal attending open circuit

➤ operating temperature .... -10℃-40℃
➤ storage temperature..............................-10℃ +40℃
➤ humidity................................ 5%to95% relative humidity

❯ Soft starter appearance and mounting dimensions

Rate voltage	Rated current	Rated power	Display	Para meter	Protect	Terminal	Overload
380V	22A- 560A	11kW- 280kW	Chinese LCD display	18	12	12	150%le,35s 200%le,15s
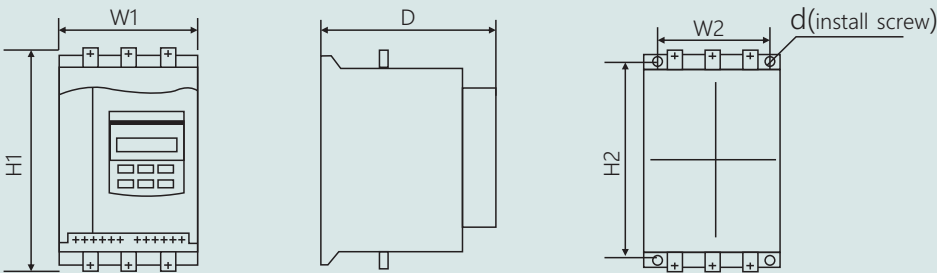
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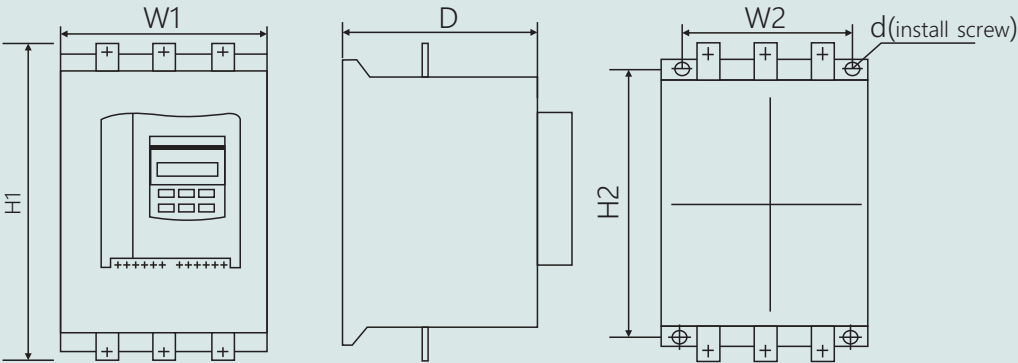
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Specificationns	Outline dimention(mm)			Installation dimetion(mm)			Outside view
	W1	H1	D	W2	H2	d	
7.5kW- 45kW	145	315	215	85	298	M6	1
55kW- 90kW	210	360	255	150	343	M8	2
115kW- 160kW	330	465	255	260	440	M8	2
185kW- 280kW	490	562	295	335	535	M8	2

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❷ Basic wiring diagram of soft starter

Three phase power input

Circuit breaker(QF)

Squirrel-cage three-phase asynchronous motor

❷ SCKR1-6000 wiring diagram
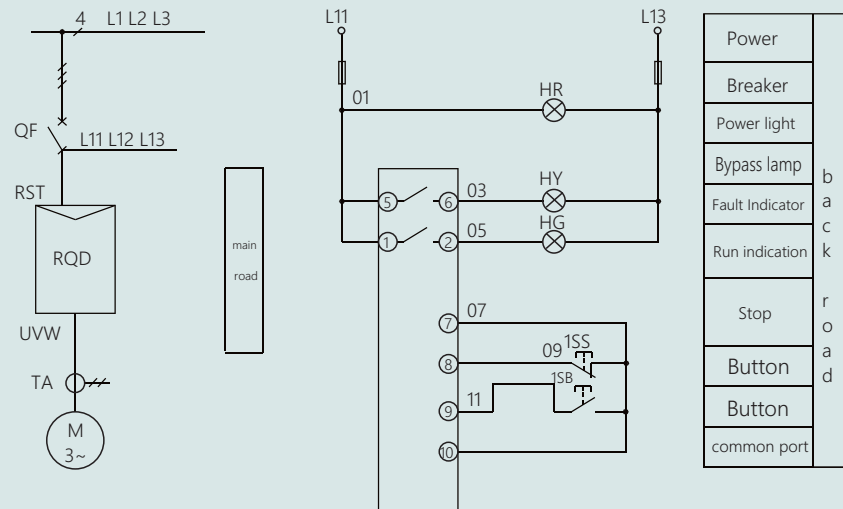
1、 This picture is the electrical schematic diagram of sckr1-6000 series online type one towed one standard motor control cabinet.

2、 In the six-way line of the soft starter, R, S, T end connection circuit breaker, U, V, W of the soft starter.Connect to three-phase asynchronous motor.

3、 Control return route diameter is 1.5bvr, and transformer return route diameter is 2.5bvr.PA, PA must be 1 Choose overload ammeter.

4、 There are 2 meter heads (PA, PV),2 buttons (SB, SS) and 3 indicator lights (HG, HR, HY) on the control cabinet surface.