VEDA IN DRIVES

Product catalogue

VEDA-IN DRIVES SFT

Soft starters for all automation applications

vedaindrives.com

General information on VEDA-IN DRIVES SFT soft starters

VEDA-IN DRIVES SFT is a brand-new family of soft starters, representing the culmination of over 15 years of experience of drive technology. The development of new products was based on the operating experience of various devices, feedback from partners and customers and the technical capabilities of suppliers.
VEDA-IN DRIVES SFT soft starters are characterized by high reliability at a low price and have all necessary product certificates. Additional versions are available for the devices – network protocols (Modbus RTU, Profibus), additional analogue output.
The devices are simple and easy to set up. The optional version of the soft starter with a start button simplifies the commissioning process.

VEDA-IN DRIVES SFT soft starters come with a warranty and post-warranty service supported by a partner network.
With its own dedicated product development center, we can make changes to the soft starter software, adapting its functionality to meet the needs of complex applications. VEDA-IN DRIVES SFT soft starters can be used in water supply and wastewater disposal, heating, ventilation and air conditioning (HVAC), chemical and mining industries, oil and gas production, power generation.

Advantages of VEDA-IN DRIVES SFT soft starters

Service

VEDA-IN DRIVES has own network of certified service and sales partners. We and our partners provide warranty and post-warranty service of VEDA-IN drives technology in the largest cities.

Own R&D center

When developing new products, VEDA-IN DRIVES engineers took into account the operating experience of various soft starters, feedback from partners and customers and the technical capabilities of suppliers. On request, VEDA-IN DRIVES specialists can modify the functionality of the devices to meet the requirements of the application.

A wide range of products designed for specific applications.

The specialized VEDA-IN DRIVES SFT series are designed for applications in industries such as water supply and wastewater disposal, heating, ventilation and air conditioning (HVAC), chemical and mining industries, oil and gas production, power generation.

100% focus on frequency converters

The VEDA-IN DRIVES team has over 15 years of experience in the drive technology market. The company employs people who are 100% focused on frequency converters and soft starters.

Increased motor life

The soft start and a number of safety features significantly increase the service life of the motor.

Series Overview

The VEDA-IN DRIVES SFT range of soft starters consists of three series for the main applications in infrastructure and industry. VEDA-IN DRIVES SFT products are developed and manufactured in fully automated plants under strict control of VEDA-IN DRIVES specialists.

The SFT10 series is a versatile and space-saving soft starter with an integrated bypass feature, suitable for motors ranging from 0.37 to 75 kW in power. It works with single-phase and three-phase motors with supply voltage 1 x 220 V and 3 x 380 V, has control voltage 24 V or 220 V. For operation in industrial networks, the SFT10 soft starter has an embedded RS-485 (Modbus RTU) interface.

Applications: centrifugal and submersible pumps, screw compressors, crushers, fans.

The SFT20 series is a versatile soft starter for motors ranging from 7.5 to 450 kW. It works with three-phase motors with supply voltage 3 x 380 V, has control voltage 220 V. For operation in industrial networks, the SFT20 has an embedded RS-485 interface (Modbus RTU) and an additional analogue output.

Applications: centrifugal and submersible pumps, screw compressors, crushers, fans.

The SFT30 series is a versatile and multi-functional soft starter for motors from 30 to 500 kW. It works with three-phase motors with supply voltage 3 x 380 V and 3 x 690 V, has control voltage 220 V. Various additional embedded options are available – Modbus RTU and Profibus network protocols, additional analogue output.

Applications: reciprocating and screw compressors, agitators, centrifugal and submersible pumps, fans, conveyors, ball mills, centrifuges, crushers, extruders, etc.

Comparison of technical features and functions of the VEDA-IN SFT soft starter

Appearance			
Type	**SFT30**	**SFT20**	**SFT10**
Functions	Complete motor starting solution with advanced protection features	Provides basic soft start and stop functions with advanced protection features	Provides basic soft start and stop functions with basic protection features
Adjustment method	Enhanced soft start and soft stop	Soft start	Soft start
Motor and system protection	Motor and system protection	Motor and system protection	Motor protection
Power range	30–500 kW at 400 V 55–450 kW at 690 V	7.5–450 kW	7.5–75 kW
Line voltage	3 x 380 V, 3 x 690 V	3 x 380 V	1 x 220 V, 3 x 380 V
Control voltage	220 V AC	220 V AC	220 V AC or 24 V DC
Number of phases to be regulated	3 phases	3 phases	3 phases
Motor type	Asynchronous 3-phase	Asynchronous 3-phase	Asynchronous 3-phase Asynchronous 1-phase
Bypass	External	External	Embedded
Version for aggressive media	-	-	+
Neutral connection input	+	-	-
Cooling	Forced	Natural	Natural
Ambient temperature	0..+50 °C	0..+50 °C	0..+40 °C

Type	SFT30	SFT20	SFT10
Ambient temperature with decreasing characteristics	– 10..+50 °C	-	– 10..+50 °C
Storage temperature	– 20..+70 °C	– 10..+50 °C	– 40..+70 °C
Enclosure protection degree	IP00 \ IP20	IP20	IP21
Humidity	up to 98 %	up to 95 %	up to 95 %
Altitude above sea level	1000 m	2000 m	1000 m
Output for external fan power supply	+	-	-
		Inputs/Outputs	
Digital inputs	3 + 3 spec. (energy saving/low speed, generator operation/ 2nd parameter set, external fault, fault reset)	4 programmable	1
Relay outputs	3 relays	2 relays	2 relays
Analogue inputs	1 (thermistor)	1 (thermistor)	-
Analogue outputs	Analogue output (optional)	Analogue output (optional)	-
Motor thermistor input	+ (optional)	+	-
Thermistor option	1 thermistor, 1 analogue output	-	-
Modbus RTU option	+	+	+
PROFIBUS option	+	-	-
		Start/Stop	
Start-up with linear current increase	+	-	-
Starting with current limitation	+	-	-
Starting with initial current/voltage	+	+	+

Type	SFT30	SFT20	SFT10
Boost start	+	+	-
Adaptive acceleration/deceleration control	6 acceleration/braking curves under application	acceleration curves for the pump	-
Starting with linear voltage increase	+	+	+
Soft stop with voltage regulation	+	+	+
Reduced speed	+	-	-
Operation with a diesel generator	+	-	-
Motor mechanical brake control	+	-	-
Two-speed motor control	+	-	-
Run-out braking	+	+	+
Dynamic braking	+	-	-
Smooth braking	+	-	-
		Interface\Control	
Display	Numeric letter display	Numeric letter display	-
Configuration Menu	Quick setup menu and application menu	Configuration Menu	Parameterization with rotary switches
Panel buttons	+	+	-
LED status indication	+	+	+
Inputs for two and three-wire control	+	+	-
Computer software	+	+	-

Type	SFT30	SFT20	SFT10
		Functions	
External Fault	+	-	-
Thyristor protection	Varistors and snubber circuit	-	-
Reversing the direction of rotation	+	-	-
Energy recovery	+	-	-
Low speed operation	+	-	-
Torque control at low speed	+	-	-
Special acceleration/braking ramps for the pump	+	+	-
Control of the number of starts	+	-	-
Mechanism jamming control	+	-	-
Log of 99 events	Statistical data	-	-
Shutdown log	Last accident	-	-
		Protection	
Motor overload	+	+	+
Exceeded start-up time	+	+	+
Reverse phase sequence	+	+	+
Motor thermistor input	+	+	-
Instantaneous overload	electronic safety fuse	+	+
Under Current	+	-	-
S.C. of motor	+	+	-

Type	SFT30	SFT20	SFT10
S.C. of Thyristor	+	-	-
Ground fault	+	+	-
Power failure	+	-	+
Voltage drop	+	+	-
Overvoltage	+	+	-
Phase loss	+	+	+
Motor contactor disconnection	+	-	-
Soft starter overheating	+	-	+
Motor overheating	+	+	+
Current asymmetry	-	+	+
External failure	+	-	-
Internal bypass relay failure	-	-	+
Supply Frequency	+	-	-
Delayed restart	+	-	-
Timeout during data exchange	+	+	-
Adjustable protection	Adjustable	-	-

The SFT10 series is a versatile and space-saving soft starter with an integrated bypass feature, suitable for motors ranging from 0.37 to 75 kW in power. It works with single-phase and three-phase motors with supply voltage 1 x 220 V and 3 x 380 V, has control voltage 24 V or 220 V. For operation in industrial networks, the SFT10 soft starter has an embedded RS-485 (Modbus RTU) interface.

This series provides soft start and stop of the electric motor and has basic safety functions. The SFT10 has one digital input, 2 relay outputs. Basic start and stop functions are available: start with initial current/voltage, start with linear voltage increase, soft stop with voltage control, coast braking.

SFT10 soft starters for 1 x 220 V single-phase motors

Control supply voltage 24 V, without start button

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE001	SFT10-S2-0002-24V	0.37	2	175x92x95	0.8
11A00MDE002	SFT10-S2-0003-24V	0.55	3	175x92x95	0.8
11A00MDE003	SFT10-S2-0004-24V	0.75	4	175x92x95	0.8
11A00MDE004	SFT10-S2-0006-24V	1.1	6	175x92x95	0.8
11A00MDE005	SFT10-S2-0009-24V	1.5	9	175x92x95	0.8
11A00MDE006	SFT10-S2-0012-24V	2.2	12	175x92x95	0.8
11A00MDE007	SFT10-S2-0020-24V	3.7	20	175x92x95	0.8
11A00MDE008	SFT10-S2-0030-24V	5.5	30	222x125x132	2
11A00MDE009	SFT10-S2-0045-24V	7.5	45	222x125x132	2

Control supply voltage 220 V, without start button

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE010	SFT10-S2-0002-220V	0.37	2	175x92x95	0.8
11A00MDE011	SFT10-S2-0003-220V	0.55	3	175x92x95	0.8
11A00MDE012	SFT10-S2-0004-220V	0.75	4	175x92x95	0.8
11A00MDE013	SFT10-S2-0006-220V	1.1	6	175x92x95	0.8
11A00MDE014	SFT10-S2-0009-220V	1.5	9	175x92x95	0.8
11A00MDE015	SFT10-S2-0012-220V	2.2	12	175x92x95	0.8
11A00MDE016	SFT10-S2-0020-220V	3.7	20	175x92x95	0.8
11A00MDE017	SFT10-S2-0030-220V	5.5	30	222x125x132	2
11A00MDE018	SFT10-S2-0045-220V	7.5	45	222x125x132	2

Control supply voltage 220 V, with start button

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE019	SFT10-S2-0002-220V-S	0.37	2	175x92x95	0.8
11A00MDE020	SFT10-S2-0003-220V-S	0.55	3	175x92x95	0.8
11A00MDE021	SFT10-S2-0004-220V-S	0.75	4	175x92x95	0.8
11A00MDE022	SFT10-S2-0006-220V-S	1.1	6	175x92x95	0.8
11A00MDE023	SFT10-S2-0009-220V-S	1.5	9	175x92x95	0.8
11A00MDE024	SFT10-S2-0012-220V-S	2.2	12	175x92x95	0.8
11A00MDE025	SFT10-S2-0020-220V-S	3.7	20	175x92x95	0.8
11A00MDE026	SFT10-S2-0030-220V-S	5.5	30	222x125x132	2
11A00MDE027	SFT10-S2-0045-220V-S	7.5	45	222x125x132	2

SFT10 soft starters for 1 x 220 V single-phase motors

Control supply voltage 220 V, without start button +Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE028	SFT10-S2-0002-220V-MB	0.37	2	175x92x95	0.8
11A00MDE029	SFT10-S2-0003-220V-MB	0.55	3	175x92x95	0.8
11A00MDE030	SFT10-S2-0004-220V-MB	0.75	4	175x92x95	0.8
11A00MDE031	SFT10-S2-0006-220V-MB	1.1	6	175x92x95	0.8
11A00MDE032	SFT10-S2-0009-220V-MB	1.5	9	175x92x95	0.8
11A00MDE033	SFT10-S2-0012-220V-MB	2.2	12	175x92x95	0.8
11A00MDE034	SFT10-S2-0020-220V-MB	3.7	20	175x92x95	0.8
11A00MDE035	SFT10-S2-0030-220V-MB	5.5	30	222x125x132	2
11A00MDE036	SFT10-S2-0045-220V-MB	7.5	45	222x125x132	2

Control supply voltage 220 V, with start button +Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE037	SFT10-S2-0002-220V-S-MB	0.37	2	175x92x95	0.8
11A00MDE038	SFT10-S2-0003-220V-S-MB	0.55	3	175x92x95	0.8
11A00MDE039	SFT10-S2-0004-220V-S-MB	0.75	4	175x92x95	0.8
11A00MDE040	SFT10-S2-0006-220V-S-MB	1.1	6	175x92x95	0.8
11A00MDE041	SFT10-S2-0009-220V-S-MB	1.5	9	175x92x95	0.8
11A00MDE042	SFT10-S2-0012-220V-S-MB	2.2	12	175x92x95	0.8
11A00MDE043	SFT10-S2-0020-220V-S-MB	3.7	20	175x92x95	0.8
11A00MDE044	SFT10-S2-0030-220V-S-MB	5.5	30	222x125x132	2
11A00MDE045	SFT10-S2-0045-220V-S-MB	7.5	45	222x125x132	2

SFT10 soft starters for three-phase motors 3 x 380 V

Control supply voltage 24 V, without start button

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE046	SFT10-T4-0001-24V	0.75	1.5	175x92x95	0.8
11A00MDE047	SFT10-T4-0002-24V	1.1	2.2	175x92x95	0.8
11A00MDE048	SFT10-T4-0003-24V	1.5	3	175x92x95	0.8
11A00MDE049	SFT10-T4-0004-24V	2.2	4.5	175x92x95	0.8
11A00MDE050	SFT10-T4-0007-24V	3.7	7.5	175x92x95	0.8
11A00MDE051	SFT10-T4-0011-24V	5.5	11	175x92x95	0.8
11A00MDE052	SFT10-T4-0015-24V	7.5	15	200x108x105	1.4
11A00MDE053	SFT10-T4-0022-24V	11	22	200x108x105	1.4
11A00MDE054	SFT10-T4-0030-24V	15	30	222x125x132	2.4
11A00MDE055	SFT10-T4-0037-24V	18.5	37	222x125x132	2.4
11A00MDE056	SFT10-T4-0045-24V	22	45	222x125x132	2.4
11A00MDE057	SFT10-T4-0060-24V	30	60	222x125x132	2.4
11A00MDE058	SFT10-T4-0075-24V	37	75	222x125x132	2.4

Control supply voltage 220 V, without start button

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE062	SFT10-T4-0001-220V	0.75	1.5	175x92x95	0.8
11A00MDE063	SFT10-T4-0002-220V	1.1	2.2	175x92x95	0.8
11A00MDE064	SFT10-T4-0003-220V	1.5	3	175x92x95	0.8
11A00MDE065	SFT10-T4-0004-220V	2.2	4.5	175x92x95	0.8
11A00MDE066	SFT10-T4-0007-220V	3.7	7.5	175x92x95	0.8
11A00MDE067	SFT10-T4-0011-220V	5.5	11	175x92x95	0.8
11A00MDE068	SFT10-T4-0015-220V	7.5	15	200x108x105	1.4
11A00MDE069	SFT10-T4-0022-220V	11	22	200x108x105	1.4
11A00MDE070	SFT10-T4-0030-220V	15	30	222x125x132	2.4
11A00MDE071	SFT10-T4-0037-220V	18.5	37	222x125x132	2.4
11A00MDE072	SFT10-T4-0045-220V	22	45	222x125x132	2.4
11A00MDE073	SFT10-T4-0060-220V	30	60	222x125x132	2.4
11A00MDE074	SFT10-T4-0075-220V	37	75	222x125x132	2.4
11A00MDE075	SFT10-T4-0090-220V	45	90	310x155x160	5
11A00MDE076	SFT10-T4-0110-220V	55	110	310x155x160	5.2
11A00MDE077	SFT10-T4-0150-220V	75	150	310x155x160	5.2

SFT10

SFT10 soft starters for three-phase motors 3 x 380 V

Control supply voltage 220 V, with start button

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE078	SFT10-T4-0001-220V-S	0.75	1.5	175x92x95	0.8
11A00MDE079	SFT10-T4-0002-220V-S	1.1	2.2	175x92x95	0.8
11A00MDE080	SFT10-T4-0003-220V-S	1.5	3	175x92x95	0.8
11A00MDE081	SFT10-T4-0004-220V-S	2.2	4.5	175x92x95	0.8
11A00MDE082	SFT10-T4-0007-220V-S	3.7	7.5	175x92x95	0.8
11A00MDE083	SFT10-T4-0011-220V-S	5.5	11	175x92x95	0.8
11A00MDE084	SFT10-T4-0015-220V-S	7.5	15	200x108x105	1.4
11A00MDE085	SFT10-T4-0022-220V-S	11	22	200x108x105	1.4
11A00MDE086	SFT10-T4-0030-220V-S	15	30	222x125x132	2.4
11A00MDE087	SFT10-T4-0037-220V-S	18.5	37	222x125x132	2.4
11A00MDE088	SFT10-T4-0045-220V-S	22	45	222x125x132	2.4
11A00MDE089	SFT10-T4-0060-220V-S	30	60	222x125x132	2.4
11A00MDE090	SFT10-T4-0075-220V-S	37	75	222x125x132	2.4

Control supply voltage 220 V, without start button +Modbus

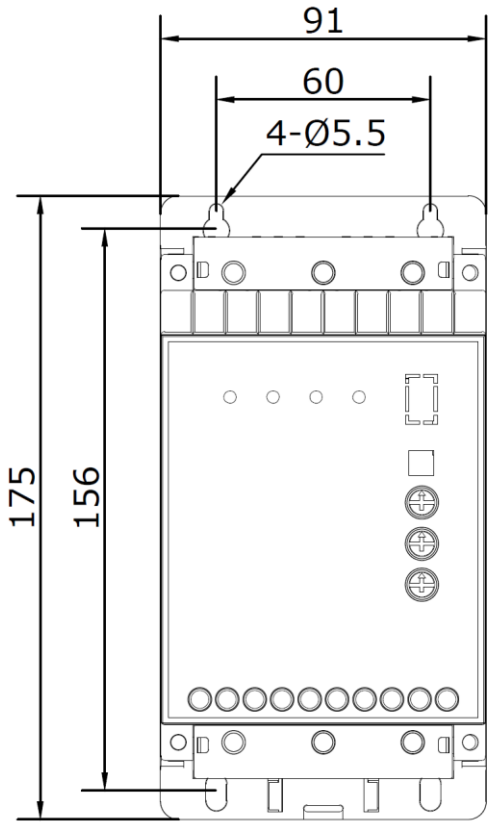
Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE094	SFT10-T4-0001-220V-MB	0.75	1.5	175x92x95	0.8
11A00MDE095	SFT10-T4-0002-220V-MB	1.1	2.2	175x92x95	0.8
11A00MDE096	SFT10-T4-0003-220V-MB	1.5	3	175x92x95	0.8
11A00MDE097	SFT10-T4-0004-220V-MB	2.2	4.5	175x92x95	0.8
11A00MDE098	SFT10-T4-0007-220V-MB	3.7	7.5	175x92x95	0.8
11A00MDE099	SFT10-T4-0011-220V-MB	5.5	11	175x92x95	0.8
11A00MDE100	SFT10-T4-0015-220V-MB	7.5	15	200x108x105	1.4
11A00MDE101	SFT10-T4-0022-220V-MB	11	22	200x108x105	1.4
11A00MDE102	SFT10-T4-0030-220V-MB	15	30	222x125x132	2.4
11A00MDE103	SFT10-T4-0037-220V-MB	18.5	37	222x125x132	2.4
11A00MDE104	SFT10-T4-0045-220V-MB	22	45	222x125x132	2.4
11A00MDE105	SFT10-T4-0060-220V-MB	30	60	222x125x132	2.4
11A00MDE106	SFT10-T4-0075-220V-MB	37	75	222x125x132	2.4
11A00MDE107	SFT10-T4-0090-220V-MB	45	90	310x155x160	5
11A00MDE108	SFT10-T4-0110-220V-MB	55	110	310x155x160	5.2
11A00MDE109	SFT10-T4-0150-220V-MB	75	150	310x155x160	5.2

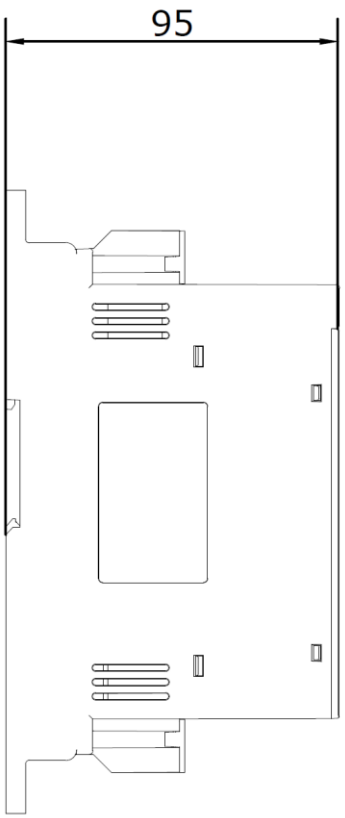
Control supply voltage 220 V, with start button +Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE110	SFT10-T4-0001-220V-S-MB	0.75	1.5	175x92x95	0.8
11A00MDE111	SFT10-T4-0002-220V-S-MB	1.1	2.2	175x92x95	0.8
11A00MDE112	SFT10-T4-0003-220V-S-MB	1.5	3	175x92x95	0.8
11A00MDE113	SFT10-T4-0004-220V-S-MB	2.2	4.5	175x92x95	0.8
11A00MDE114	SFT10-T4-0007-220V-S-MB	3.7	7.5	175x92x95	0.8
11A00MDE115	SFT10-T4-0011-220V-S-MB	5.5	11	175x92x95	0.8
11A00MDE116	SFT10-T4-0015-220V-S-MB	7.5	15	200x108x105	1.4
11A00MDE117	SFT10-T4-0022-220V-S-MB	11	22	200x108x105	1.4
11A00MDE118	SFT10-T4-0030-220V-S-MB	15	30	222x125x132	2.4
11A00MDE119	SFT10-T4-0037-220V-S-MB	18.5	37	222x125x132	2.4
11A00MDE120	SFT10-T4-0045-220V-S-MB	22	45	222x125x132	2.4
11A00MDE121	SFT10-T4-0060-220V-S-MB	30	60	222x125x132	2.4
11A00MDE122	SFT10-T4-0075-220V-S-MB	37	75	222x125x132	2.4
11A00MDE123	SFT10-T4-0090-220V-S-MB	45	90	310x155x160	5
11A00MDE124	SFT10-T4-0110-220V-S-MB	55	110	310x155x160	5.2
11A00MDE125	SFT10-T4-0150-220V-S-MB	75	150	310x155x160	5.2

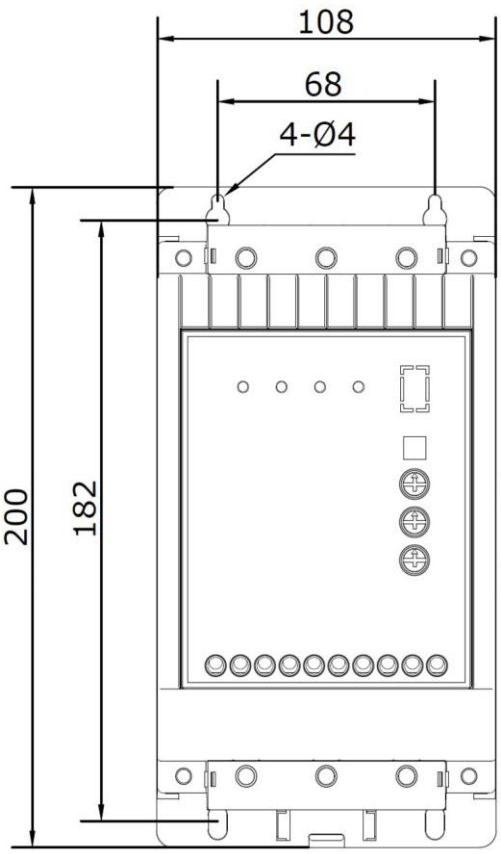
SFT10 dimensions

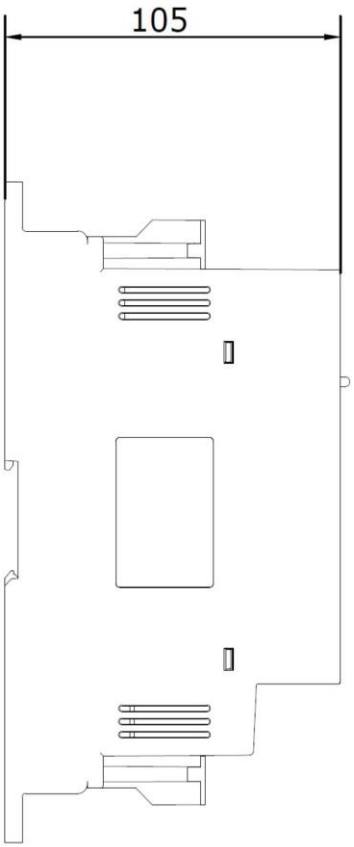
Unit size C1 (1.5–11 A)



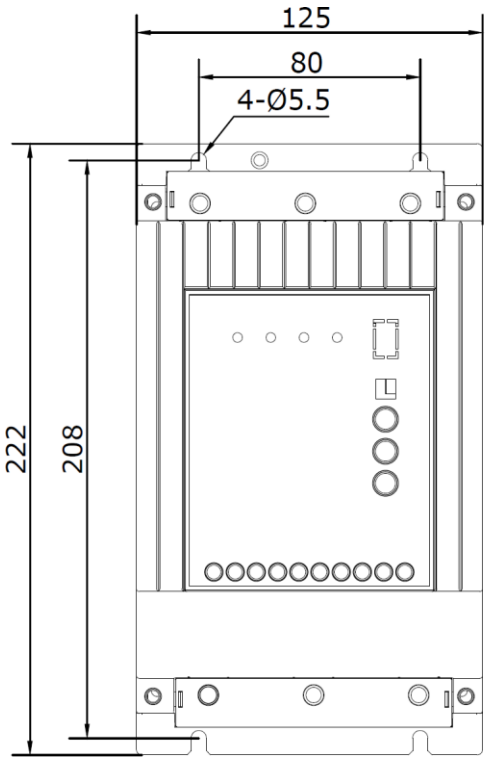


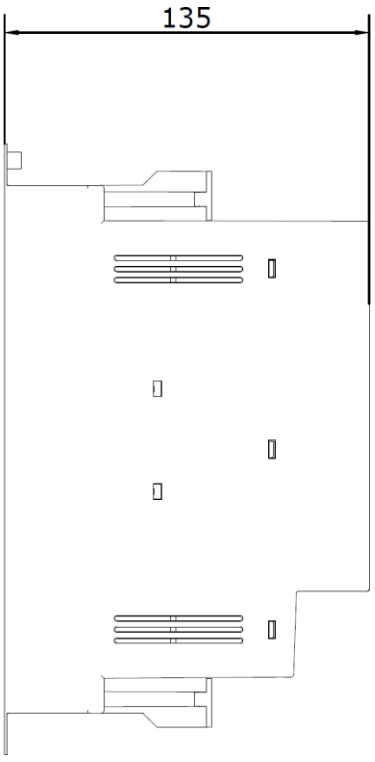
Unit size C2 (15–22 A)



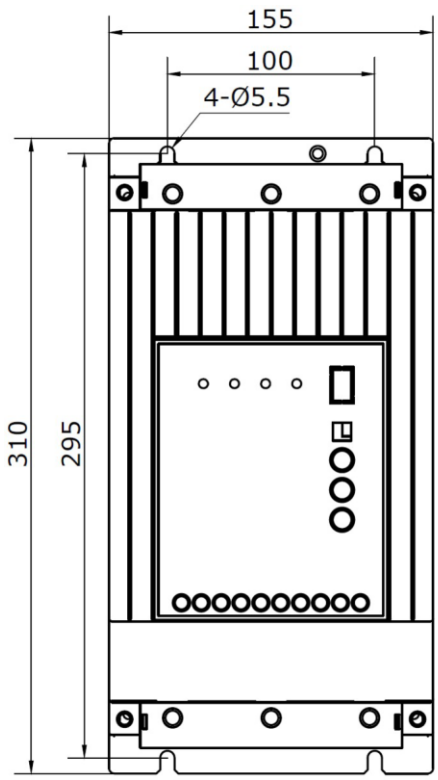


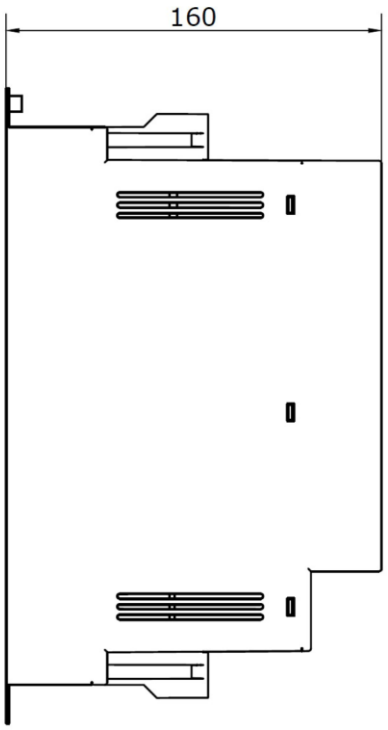
Unit size C3 (30-75 A)





Unit size C4 (90–150 A)





Type code for ordering

SFT10-XX-XXXX-XXXV-S-MB		
SFT10	**SFT product series**	
TX	**Voltage class (S=1 phase, T=3 phase)**	
	S2	1 x 220 V
	T4	3 x 380 V
XXXX	**Rated current, A**	
XXXV	**Control voltage**	
		24 V
		220 V
S	**Start button**	
	S	With start button
MB	**Modbus network protocol**	
	MB	Integrated Modbus protocol

SFT10

SFT10 technical features

Input features of the mains supply	
Rated voltage	1 x 220 V, 3 x 380 V AC (-15 to +10 %)*
Rated frequency	50/60 Hz
Rated control circuit voltage	220 V AC or 24 V DC*
Key Functions	
Possible winding connections	Star circuit connection
	External delta connection
Initial starting voltage	30÷70 %
Acceleration time	1÷30 s
Deceleration time	0÷30 s
Bypass	Embedded
Number of starts per hour	Under normal load or no load – up to 10
	Under heavy load – up to 5
Network protocols	Modbus RTU (RS-485)*
Protections	Short-circuit protection
	Long-term overload protection
	Overload protection class 10A, 10, 20 and 30
	Phase current imbalance
	Phase sequence protection
	Phase failure protection
	Voltage loss protection
	Thyristor overheating protection
Allowable overloads	300% for 7 s at 50% switch-on time and 50% of the switch-off time)
Environment, performance	
Service temperature	0 to +50 °C, above 40 °C with performance degradation
Humidity	Relative humidity 75 % at temperature +15 °C. Transducers may be operated at relative humidity 95 % and temperature +25 °C
Storage temperature	-40 to 70°C
Protection degree	IP21
Altitude above sea level	1000 m (above 1000 m the rated current is reduced by 1 % for every 100 m)

* Depending on the model ordered.

SFT20

The SFT20 series is a versatile soft starter for motors ranging from 7.5 to 450 kW in power. It works with three-phase motors with supply voltage 3 x 380 V, has control voltage 220 V. For operation in industrial networks, the SFT20 soft starter has a built-in RS-485 interface (Modbus RTU), an additional analogue output, and a convenient operator panel with buttons.

This series provides soft start and stop of the electric motor and has advanced safety functions. The SFT20 has four programmable digital inputs, 3 relay outputs, 1 analogue input (thermistor). Basic start and stop functions are available: start with initial current/voltage, start with linear voltage increase, soft stop with voltage control, coast braking. The device has advanced functions: forced start, acceleration curves for the pump.

SFT20 soft starters for three-phase motors 3 x 380 V

Control supply voltage 220 V

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE126	SFT20-T4-0018	7.5	18	310x172x194	5
11A00MDE127	SFT20-T4-0030	15	30	310x172x194	5
11A00MDE128	SFT20-T4-0045	22	45	310x172x194	5
11A00MDE129	SFT20-T4-0060	30	60	310x172x194	5
11A00MDE130	SFT20-T4-0075	37	75	406x230x224	9.8
11A00MDE131	SFT20-T4-0090	45	90	406x230x224	9.8
11A00MDE132	SFT20-T4-0110	55	110	406x230x224	9.8
11A00MDE133	SFT20-T4-0145	75	145	446x300x213	17.8
11A00MDE134	SFT20-T4-0175	90	175	446x300x213	17.8
11A00MDE135	SFT20-T4-0210	110	210	446x300x213	17.8
11A00MDE136	SFT20-T4-0250	132	250	446x300x213	17.8
11A00MDE137	SFT20-T4-0300	160	300	446x300x213	17.8
11A00MDE138	SFT20-T4-0370	200	370	446x300x213	17.8
11A00MDE139	SFT20-T4-0470	250	470	516x350x226	24
11A00MDE140	SFT20-T4-0570	315	570	516x350x226	24
11A00MDE141	SFT20-T4-0720	400	720	516x350x226	24
11A00MDE142	SFT20-T4-0840	450	840	516x350x226	24

Control supply voltage 220 V +Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE143	SFT20-T4-0018-MB	7.5	18	310x172x194	5
11A00MDE144	SFT20-T4-0030-MB	15	30	310x172x194	5
11A00MDE145	SFT20-T4-0045-MB	22	45	310x172x194	5
11A00MDE146	SFT20-T4-0060-MB	30	60	310x172x194	5
11A00MDE147	SFT20-T4-0075-MB	37	75	406x230x224	9.8
11A00MDE148	SFT20-T4-0090-MB	45	90	406x230x224	9.8
11A00MDE149	SFT20-T4-0110-MB	55	110	406x230x224	9.8
11A00MDE150	SFT20-T4-0145-MB	75	145	446x300x213	17.8
11A00MDE151	SFT20-T4-0175-MB	90	175	446x300x213	17.8
11A00MDE152	SFT20-T4-0210-MB	110	210	446x300x213	17.8
11A00MDE153	SFT20-T4-0250-MB	132	250	446x300x213	17.8
11A00MDE154	SFT20-T4-0300-MB	160	300	446x300x213	17.8
11A00MDE155	SFT20-T4-0370-MB	200	370	446x300x213	17.8
11A00MDE156	SFT20-T4-0470-MB	250	470	516x350x226	24
11A00MDE157	SFT20-T4-0570-MB	315	570	516x350x226	24
11A00MDE158	SFT20-T4-0720-MB	400	720	516x350x226	24
11A00MDE159	SFT20-T4-0840-MB	450	840	516x350x226	24

SFT20 soft starters for three-phase motors 3 x 380 V

Control supply voltage 220 V+Additional analogue output

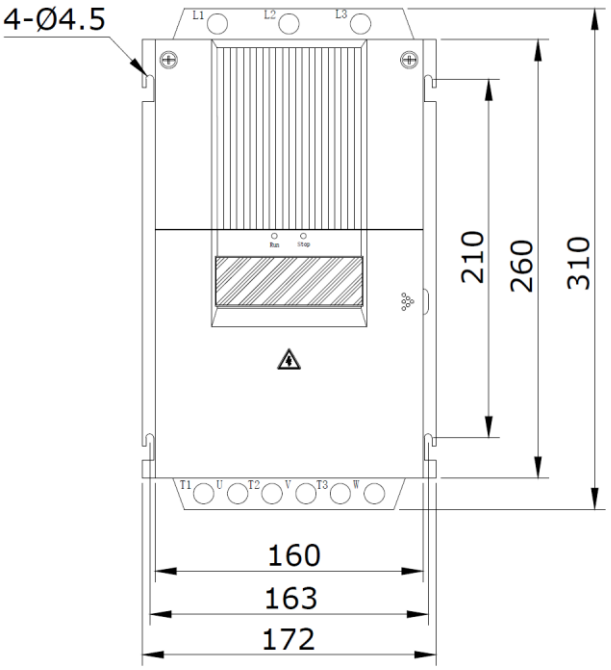
Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE160	SFT20-T4-0018-AO	7.5	18	310x172x194	5
11A00MDE161	SFT20-T4-0030-AO	15	30	310x172x194	5
11A00MDE162	SFT20-T4-0045-AO	22	45	310x172x194	5
11A00MDE163	SFT20-T4-0060-AO	30	60	310x172x194	5
11A00MDE164	SFT20-T4-0075-AO	37	75	406x230x224	9.8
11A00MDE165	SFT20-T4-0090-AO	45	90	406x230x224	9.8
11A00MDE166	SFT20-T4-0110-AO	55	110	406x230x224	9.8
11A00MDE167	SFT20-T4-0145-AO	75	145	446x300x213	17.8
11A00MDE168	SFT20-T4-0175-AO	90	175	446x300x213	17.8
11A00MDE169	SFT20-T4-0210-AO	110	210	446x300x213	17.8
11A00MDE170	SFT20-T4-0250-AO	132	250	446x300x213	17.8
11A00MDE171	SFT20-T4-0300-AO	160	300	446x300x213	17.8
11A00MDE172	SFT20-T4-0370-AO	200	370	446x300x213	17.8
11A00MDE173	SFT20-T4-0470-AO	250	470	516x350x226	24
11A00MDE174	SFT20-T4-0570-AO	315	570	516x350x226	24
11A00MDE175	SFT20-T4-0720-AO	400	720	516x350x226	24
11A00MDE176	SFT20-T4-0840-AO	450	840	516x350x226	24

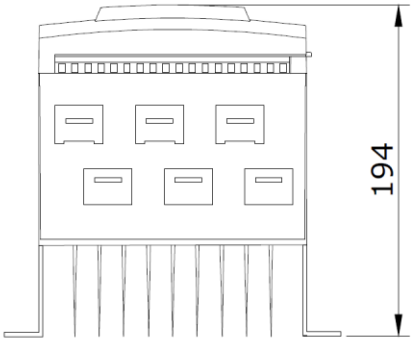
Control supply voltage 220 V + Additional analogue output + Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE177	SFT20-T4-0018-AO-MB	7.5	18	310x172x194	5
11A00MDE178	SFT20-T4-0030-AO-MB	15	30	310x172x194	5
11A00MDE179	SFT20-T4-0045-AO-MB	22	45	310x172x194	5
11A00MDE180	SFT20-T4-0060-AO-MB	30	60	310x172x194	5
11A00MDE181	SFT20-T4-0075-AO-MB	37	75	406x230x224	9.8
11A00MDE182	SFT20-T4-0090-AO-MB	45	90	406x230x224	9.8
11A00MDE183	SFT20-T4-0110-AO-MB	55	110	406x230x224	9.8
11A00MDE184	SFT20-T4-0145-AO-MB	75	145	446x300x213	17.8
11A00MDE185	SFT20-T4-0175-AO-MB	90	175	446x300x213	17.8
11A00MDE186	SFT20-T4-0210-AO-MB	110	210	446x300x213	17.8
11A00MDE187	SFT20-T4-0250-AO-MB	132	250	446x300x213	17.8
11A00MDE188	SFT20-T4-0300-AO-MB	160	300	446x300x213	17.8
11A00MDE189	SFT20-T4-0370-AO-MB	200	370	446x300x213	17.8
11A00MDE190	SFT20-T4-0470-AO-MB	250	470	516x350x226	24
11A00MDE191	SFT20-T4-0570-AO-MB	315	570	516x350x226	24
11A00MDE192	SFT20-T4-0720-AO-MB	400	720	516x350x226	24
11A00MDE193	SFT20-T4-0840-AO-MB	450	840	516x350x226	24

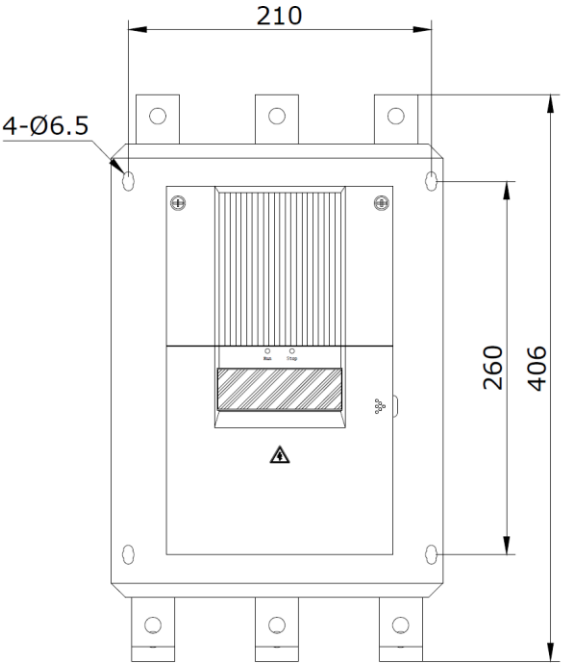
SFT20 dimensions

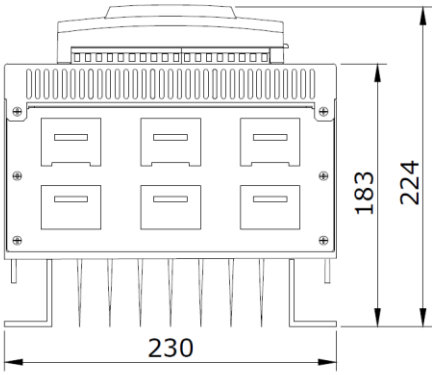
Unit size D1 18–60 A



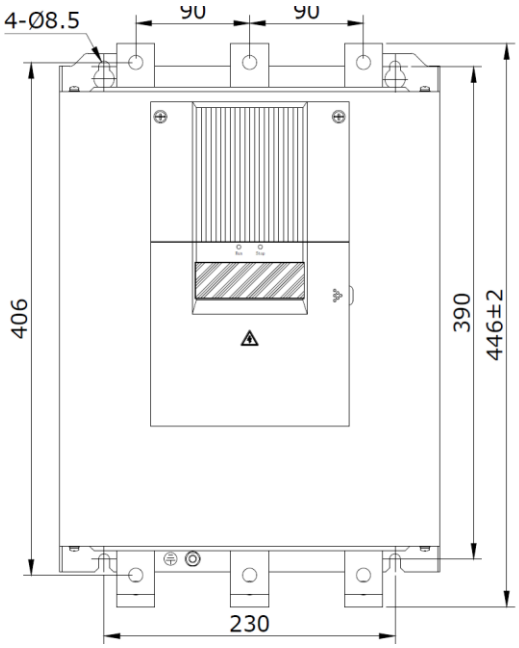


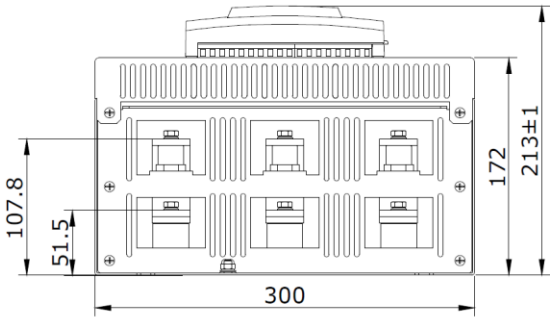
Unit size D2 (75–110 A)



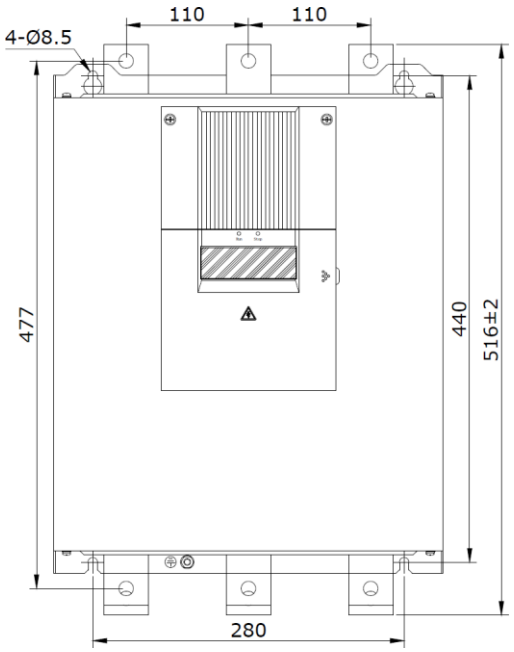


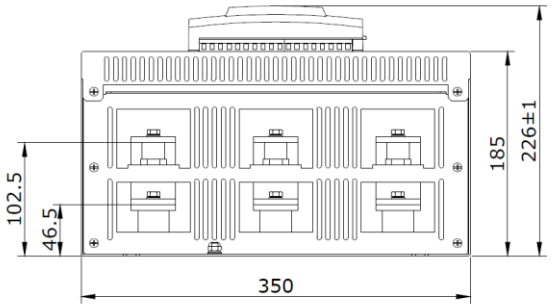
Unit size D3 (145–370 A)





Unit size D4 (470–720 A)





SE120

Type code for ordering

SFT20-TX-XXXX-AO-MB		
SFT20	**SFT product series**	
TX	**Voltage class**	
	T4	3 x 380 V
XXXX	**Rated current, A**	
AO	**Analogue output**	
	AO	Additional analogue output
MB	**Modbus network protocol**	
	MB	Integrated Modbus protocol

SFT20 technical features

Input features of the mains supply	
Rated voltage	3 x 380 V AC (-15 to +10 %)
Rated frequency	50/60 Hz
Rated control circuit voltage	220 VAC
Key Functions	
Bypass	External
Number of starts per hour	3–6 times an hour
Additional analogue output	1*
Network protocols	Modbus RTU (RS-485)*
Protections	Short-circuit protection
	Motor overload protection
	Protection against exceeding the start-up time
	Voltage drop protection
	Phase sequence protection
	Ground fault protection
	Surge Protection
	Thyristor overheating protection
	Timeout during data exchange
	Current asymmetry
Pump Control	Special acceleration/braking ramps
Allowable overloads	75–150 % for 10 s
Digital inputs	4 programmable
Relay outputs	3 relays
Analogue inputs	1 (thermistor)
Environment, performance	
Service temperature	0 to +50 °C
Humidity	Transducers may be operated at relative humidity 95 % and temperature +25 °C
Storage temperature	-10 to +50 °C
Protection degree	IP20
Altitude above sea level	2000 m

* Depending on the model ordered.

The SFT30 series is a versatile and multi-functional soft starter for motors from 30 to 500 kW. It works with three-phase motors with supply voltage 3 x 380 V and 3 x 690 V, has control voltage 220 V. Various additional embedded options are available – Modbus RTU and Profibus network protocols, additional analogue output.

This series provides soft start and stop of the electric motor, has advanced protection functions, can operate in heavy environmental conditions (operating temperature from 0 to +50 °C). The SFT30 has 3 digital inputs and 3 special inputs (energy storage, generator operation, 2 parameter sets, external fault, fault reset), 3 relay outputs, 1 analogue input (thermistor). In addition to the standard functions, the device has a number of additional functions: forced start, 6 acceleration and braking curves for different applications, diesel generator operation, mechanical brake control, dynamic braking, event log.

SFT30 soft starters for three-phase motors 3 x 380 V

Control supply voltage 220 V

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE194	SFT30-T4-0058	30	58	400x280x218	11
11A00MDE195	SFT30-T4-0072	37	72	400x280x218	11
11A00MDE196	SFT30-T4-0085	45	85	400x280x218	12.5
11A00MDE197	SFT30-T4-0105	55	105	400x280x218	12.5
11A00MDE198	SFT30-T4-0145	75	145	400x280x218	12.5
11A00MDE199	SFT30-T4-0170	90	170	488x390x280	21.9
11A00MDE200	SFT30-T4-0210	110	210	488x390x280	21.9
11A00MDE201	SFT30-T4-0250	132	250	488x390x280	21.9
11A00MDE202	SFT30-T4-0310	160	310	600x540x310	59
11A00MDE203	SFT30-T4-0390	200	390	600x540x310	59
11A00MDE204	SFT30-T4-0460	250	460	600x540x310	59
11A00MDE205	SFT30-T4-0580	315	580	600x540x310	59
11A00MDE206	SFT30-T4-0720	400	720	600x540x310	59
11A00MDE207	SFT30-T4-0820	450	820	600x540x310	59
11A00MDE208	SFT30-T4-0950	500	950	600x540x310	59

Control supply voltage 220 V +Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE210	SFT30-T4-0058-MB	30	58	400x280x218	11
11A00MDE211	SFT30-T4-0072-MB	37	72	400x280x218	11
11A00MDE212	SFT30-T4-0085-MB	45	85	400x280x218	12.5
11A00MDE213	SFT30-T4-0105-MB	55	105	400x280x218	12.5
11A00MDE214	SFT30-T4-0145-MB	75	145	400x280x218	12.5
11A00MDE215	SFT30-T4-0170-MB	90	170	488x390x280	21.9
11A00MDE216	SFT30-T4-0210-MB	110	210	488x390x280	21.9
11A00MDE217	SFT30-T4-0250-MB	132	250	488x390x280	21.9
11A00MDE218	SFT30-T4-0310-MB	160	310	600x540x310	59
11A00MDE219	SFT30-T4-0390-MB	200	390	600x540x310	59
11A00MDE220	SFT30-T4-0460-MB	250	460	600x540x310	59
11A00MDE221	SFT30-T4-0580-MB	315	580	600x540x310	59
11A00MDE222	SFT30-T4-0720-MB	400	720	600x540x310	59
11A00MDE223	SFT30-T4-0820-MB	450	820	600x540x310	59
11A00MDE224	SFT30-T4-0950-MB	500	950	600x540x310	59

SFT30 soft starters for three-phase motors 3 x 380 V

Control supply voltage 220 V+Profibus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE225	SFT30-T4-0058-PB	30	58	400x280x218	11
11A00MDE226	SFT30-T4-0072-PB	37	72	400x280x218	11
11A00MDE227	SFT30-T4-0085-PB	45	85	400x280x218	12.5
11A00MDE228	SFT30-T4-0105-PB	55	105	400x280x218	12.5
11A00MDE229	SFT30-T4-0145-PB	75	145	400x280x218	12.5
11A00MDE230	SFT30-T4-0170-PB	90	170	488x390x280	21.9
11A00MDE231	SFT30-T4-0210-PB	110	210	488x390x280	21.9
11A00MDE232	SFT30-T4-0250-PB	132	250	488x390x280	21.9
11A00MDE233	SFT30-T4-0310-PB	160	310	600x540x310	59
11A00MDE234	SFT30-T4-0390-PB	200	390	600x540x310	59
11A00MDE235	SFT30-T4-0460-PB	250	460	600x540x310	59
11A00MDE236	SFT30-T4-0580-PB	315	580	600x540x310	59
11A00MDE237	SFT30-T4-0720-PB	400	720	600x540x310	59
11A00MDE238	SFT30-T4-0820-PB	450	820	600x540x310	59
11A00MDE239	SFT30-T4-0950-PB	500	950	600x540x310	59

Control supply voltage 220 V+Additional analogue output

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE240	SFT30-T4-0058-AO	30	58	400x280x218	11
11A00MDE241	SFT30-T4-0072-AO	37	72	400x280x218	11
11A00MDE242	SFT30-T4-0085-AO	45	85	400x280x218	12.5
11A00MDE243	SFT30-T4-0105-AO	55	105	400x280x218	12.5
11A00MDE244	SFT30-T4-0145-AO	75	145	400x280x218	12.5
11A00MDE245	SFT30-T4-0170-AO	90	170	488x390x280	21.9
11A00MDE246	SFT30-T4-0210-AO	110	210	488x390x280	21.9
11A00MDE247	SFT30-T4-0250-AO	132	250	488x390x280	21.9
11A00MDE248	SFT30-T4-0310-AO	160	310	600x540x310	59
11A00MDE249	SFT30-T4-0390-AO	200	390	600x540x310	59
11A00MDE250	SFT30-T4-0460-AO	250	460	600x540x310	59
11A00MDE251	SFT30-T4-0580-AO	315	580	600x540x310	59
11A00MDE252	SFT30-T4-0720-AO	400	720	600x540x310	59
11A00MDE253	SFT30-T4-0820-AO	450	820	600x540x310	59
11A00MDE254	SFT30-T4-0950-AO	500	950	600x540x310	59

SFT30 soft starters for three-phase motors 3 x 380 V

Control supply voltage 220 V+Modbus+Additional analogue output

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE255	SFT30-T4-0058-MB-AO	30	58	400x280x218	11
11A00MDE256	SFT30-T4-0072-MB-AO	37	72	400x280x218	11
11A00MDE257	SFT30-T4-0085-MB-AO	45	85	400x280x218	12.5
11A00MDE258	SFT30-T4-0105-MB-AO	55	105	400x280x218	12.5
11A00MDE259	SFT30-T4-0145-MB-AO	75	145	400x280x218	12.5
11A00MDE260	SFT30-T4-0170-MB-AO	90	170	488x390x280	21.9
11A00MDE261	SFT30-T4-0210-MB-AO	110	210	488x390x280	21.9
11A00MDE262	SFT30-T4-0250-MB-AO	132	250	488x390x280	21.9
11A00MDE263	SFT30-T4-0310-MB-AO	160	310	600x540x310	59
11A00MDE264	SFT30-T4-0390-MB-AO	200	390	600x540x310	59
11A00MDE265	SFT30-T4-0460-MB-AO	250	460	600x540x310	59
11A00MDE266	SFT30-T4-0580-MB-AO	315	580	600x540x310	59
11A00MDE267	SFT30-T4-0720-MB-AO	400	720	600x540x310	59
11A00MDE268	SFT30-T4-0820-MB-AO	450	820	600x540x310	59
11A00MDE269	SFT30-T4-0950-MB-AO	500	950	600x540x310	59

Control supply voltage 220 V+Profibus+Additional analogue output

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE270	SFT30-T4-0058-PB-AO	30	58	400x280x218	11
11A00MDE271	SFT30-T4-0072-PB-AO	37	72	400x280x218	11
11A00MDE272	SFT30-T4-0085-PB-AO	45	85	400x280x218	12.5
11A00MDE273	SFT30-T4-0105-PB-AO	55	105	400x280x218	12.5
11A00MDE274	SFT30-T4-0145-PB-AO	75	145	400x280x218	12.5
11A00MDE275	SFT30-T4-0170-PB-AO	90	170	488x390x280	21.9
11A00MDE276	SFT30-T4-0210-PB-AO	110	210	488x390x280	21.9
11A00MDE277	SFT30-T4-0250-PB-AO	132	250	488x390x280	21.9
11A00MDE278	SFT30-T4-0310-PB-AO	160	310	600x540x310	59
11A00MDE279	SFT30-T4-0390-PB-AO	200	390	600x540x310	59
11A00MDE280	SFT30-T4-0460-PB-AO	250	460	600x540x310	59
11A00MDE281	SFT30-T4-0580-PB-AO	315	580	600x540x310	59
11A00MDE282	SFT30-T4-0720-PB-AO	400	720	600x540x310	59
11A00MDE283	SFT30-T4-0820-PB-AO	450	820	600x540x310	59
11A00MDE284	SFT30-T4-0950-PB-AO	500	950	600x540x310	59

SFT30 soft starters for three-phase motors 3 x 690 V

Control supply voltage 220 V

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE285	SFT30-T6-0058	55	58	400x280x218	11
11A00MDE286	SFT30-T6-0085	75	85	400x280x218	12.5
11A00MDE287	SFT30-T6-0105	90	105	400x280x218	12.5
11A00MDE288	SFT30-T6-0145	132	145	400x280x218	12.5
11A00MDE289	SFT30-T6-0170	160	170	488x390x280	21.9
11A00MDE290	SFT30-T6-0210	200	210	488x390x280	21.9
11A00MDE291	SFT30-T6-0310	257	310	600x540x310	59
11A00MDE292	SFT30-T6-0390	355	390	600x540x310	59
11A00MDE293	SFT30-T6-0460	450	460	600x540x310	59

Control supply voltage 220 V +Modbus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE294	SFT30-T6-0058-MB	55	58	400x280x218	11
11A00MDE295	SFT30-T6-0085-MB	75	85	400x280x218	12.5
11A00MDE296	SFT30-T6-0105-MB	90	105	400x280x218	12.5
11A00MDE297	SFT30-T6-0145-MB	132	145	400x280x218	12.5
11A00MDE298	SFT30-T6-0170-MB	160	170	488x390x280	21.9
11A00MDE299	SFT30-T6-0210-MB	200	210	488x390x280	21.9
11A00MDE300	SFT30-T6-0310-MB	257	310	600x540x310	59
11A00MDE301	SFT30-T6-0390-MB	355	390	600x540x310	59
11A00MDE302	SFT30-T6-0460-MB	450	460	600x540x310	59

Control supply voltage 220 V+Profibus

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE303	SFT30-T6-0058-PB	55	58	400x280x218	11
11A00MDE304	SFT30-T6-0085-PB	75	85	400x280x218	12.5
11A00MDE305	SFT30-T6-0105-PB	90	105	400x280x218	12.5
11A00MDE306	SFT30-T6-0145-PB	132	145	400x280x218	12.5
11A00MDE307	SFT30-T6-0170-PB	160	170	488x390x280	21.9
11A00MDE308	SFT30-T6-0210-PB	200	210	488x390x280	21.9
11A00MDE309	SFT30-T6-0310-PB	257	310	600x540x310	59
11A00MDE310	SFT30-T6-0390-PB	355	390	600x540x310	59
11A00MDE311	SFT30-T6-0460-PB	450	460	600x540x310	59

SFT30 soft starters for three-phase motors 3 x 690 V

Control supply voltage 220 V+Additional analogue output

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE312	SFT30-T6-0058-AO	55	58	400x280x218	11
11A00MDE313	SFT30-T6-0085-AO	75	85	400x280x218	12.5
11A00MDE314	SFT30-T6-0105-AO	90	105	400x280x218	12.5
11A00MDE315	SFT30-T6-0145-AO	132	145	400x280x218	12.5
11A00MDE316	SFT30-T6-0170-AO	160	170	488x390x280	21.9
11A00MDE317	SFT30-T6-0210-AO	200	210	488x390x280	21.9
11A00MDE318	SFT30-T6-0310-AO	257	310	600x540x310	59
11A00MDE319	SFT30-T6-0390-AO	355	390	600x540x310	59
11A00MDE320	SFT30-T6-0460-AO	450	460	600x540x310	59

Control supply voltage 220 V+Modbus+Additional analogue output

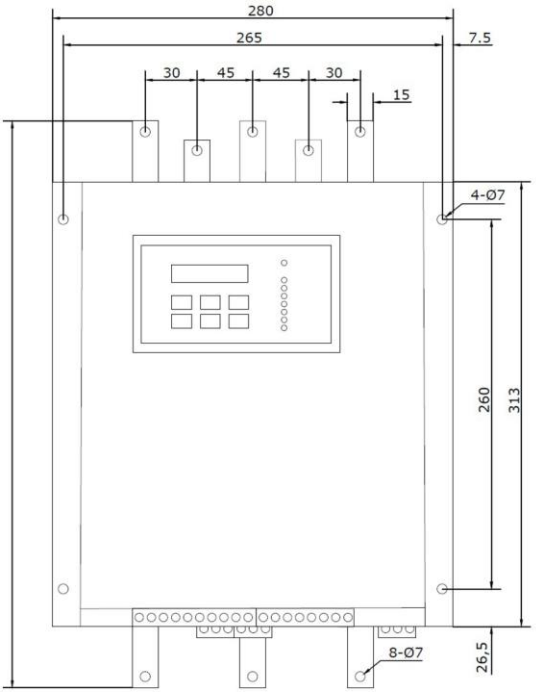
Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE321	SFT30-T6-0058-MB-AO	55	58	400x280x218	11
11A00MDE322	SFT30-T6-0085-MB-AO	75	85	400x280x218	12.5
11A00MDE323	SFT30-T6-0105-MB-AO	90	105	400x280x218	12.5
11A00MDE324	SFT30-T6-0145-MB-AO	132	145	400x280x218	12.5
11A00MDE325	SFT30-T6-0170-MB-AO	160	170	488x390x280	21.9
11A00MDE326	SFT30-T6-0210-MB-AO	200	210	488x390x280	21.9
11A00MDE327	SFT30-T6-0310-MB-AO	257	310	600x540x310	59
11A00MDE328	SFT30-T6-0390-MB-AO	355	390	600x540x310	59
11A00MDE329	SFT30-T6-0460-MB-AO	450	460	600x540x310	59

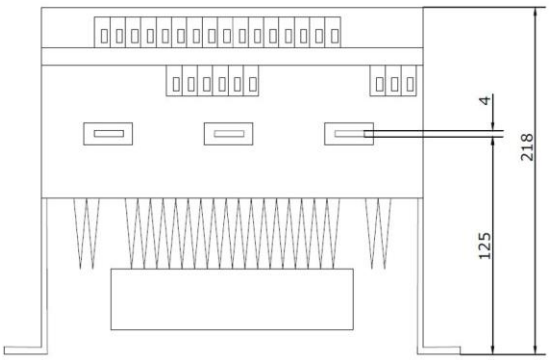
Control supply voltage 220 V+Profibus+Additional analogue output

Ordering code	Type code	Output power, kW	Rated output current, A	H x W x D, mm	Weight, kg
11A00MDE330	SFT30-T6-0058-PB-AO	55	58	400x280x218	11
11A00MDE331	SFT30-T6-0085-PB-AO	75	85	400x280x218	12.5
11A00MDE332	SFT30-T6-0105-PB-AO	90	105	400x280x218	12.5
11A00MDE333	SFT30-T6-0145-PB-AO	132	145	400x280x218	12.5
11A00MDE334	SFT30-T6-0170-PB-AO	160	170	488x390x280	21.9
11A00MDE335	SFT30-T6-0210-PB-AO	200	210	488x390x280	21.9
11A00MDE336	SFT30-T6-0310-PB-AO	257	310	600x540x310	59
11A00MDE337	SFT30-T6-0390-PB-AO	355	390	600x540x310	59
11A00MDE338	SFT30-T6-0460-PB-AO	450	460	600x540x310	59

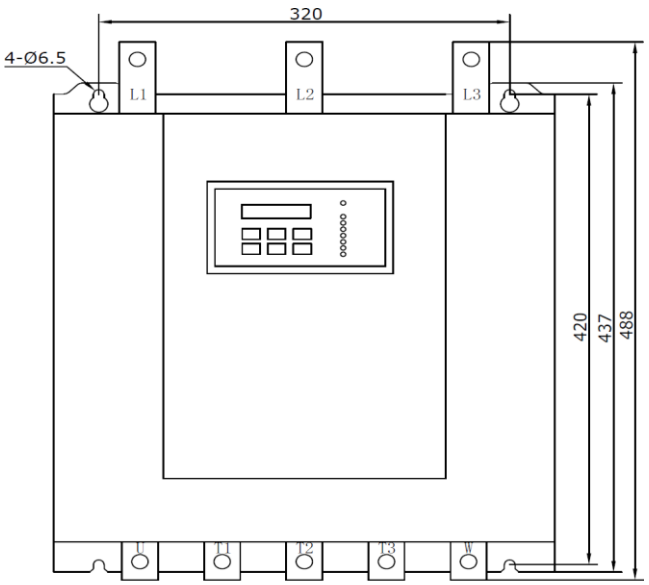
SFT30 dimensions

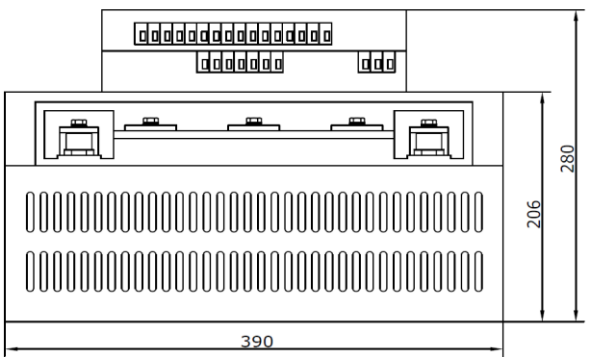
Unit size E1 (18–145 A)



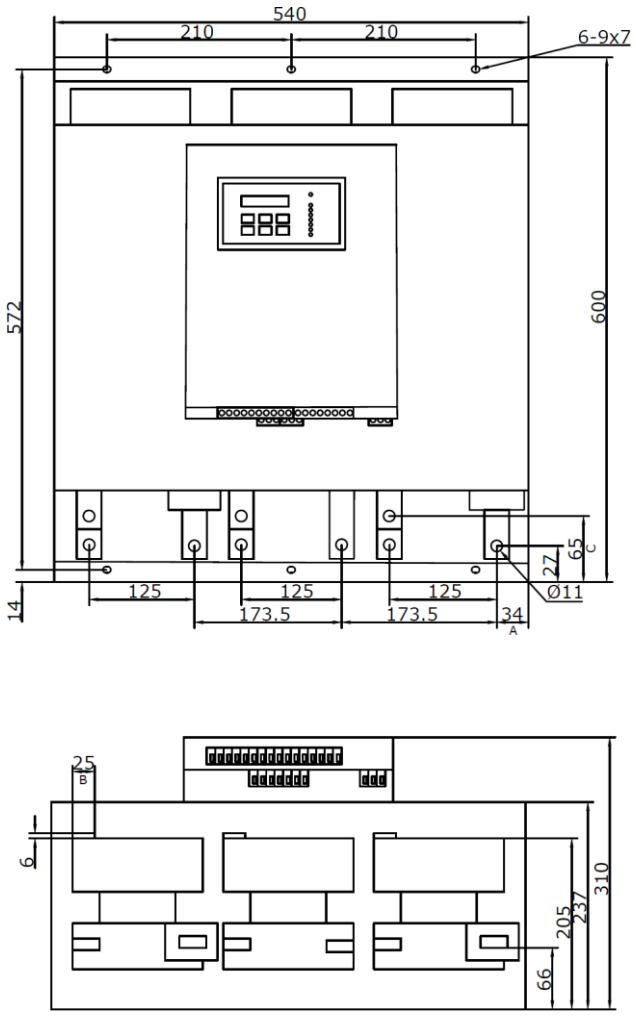


Unit size E2 (175–250 A)





Unit size E3 (300–950 A)



Type code for ordering

SFT30-TX-XXXX-XX-AO		
SFT30	**SFT product series**	
TX	**Voltage class**	
	T4	3 x 380 V
	T6	3 x 690 V
XXXX	**Rated current, A**	
XX	**Network protocol**	
	MB	Integrated Modbus protocol
	PB	Integrated Profibus protocol
AO	**Analogue output**	
	AO	Additional analogue output

SFT30

General technical data VEDA-IN DRIVES SFT30

Input features of the power supply network (R, S, T/L, N)	
Supply voltage	380, 690 V ±10%
Frequency	50/60 Hz ± 4 Hz
Control power supply	220–240 V ±10%
Control inputs and outputs	220–240 V ±10%
Load	3-phase, asynchronous squirrel cage motor
Operating temperature	0 °C to 50 °C
Maximum Starts per Hour	30
Soft starter full load current	Starter full load current 18~840 A
Motor full load current	Current at full motor load 50–100% starter motor FLC
Start / stop parameters	
Pump control curves	6 locally selectable curves to prevent overpressure during start-up and hydraulic shock during shutdown
Start pulse duration	Pulse 80% Un for an adjustable time of 0–1 second to start high friction loads.
Initial voltage	10–50% Un
Current limiting	100–400 % of full motor load
Acceleration time	1–30 seconds
Braking time	1–30 seconds
Second start-up characteristic	Secondary start and stop characteristics for initial voltage, current limit, acceleration and deceleration time, full load motor current.
Energy Save	activated when the motor is under light load for an extended period of time.
Torque at low speed	The maximum torque produced when the motor is operated at 1/6 of rated speed for a maximum of 30 seconds.
Linear acceleration	12 selectable curves - define the starting mode to improve the linearity of acceleration.
Protections	
Exceeding the number of starts per hour	determines the maximum permissible number of starts during the "start-up period". Range 1–10 starts in a start-up period of 1–60 minutes.
Start inhibit	prevents start-up for a variable period of 1 to 60 minutes after too many start-ups are indicated.
Long start-up time (rotor lockout protection)	The soft starter is switched off if full motor speed is not reached within the maximum start time of 1–30 seconds
Electronic safety fuse	Shuts down the soft starter in 1 cycle at 850% during start-up and 200–850% during operation
Electronic overload (I2t)	is regulated in the range of 75–150 % of full motor load. The motor overload curve can be selected by setting the tripping time at 500% for 1–10 seconds.
Under Current	The soft starter triggers when the current drops below 20–90% In, time delay 1–40 seconds
Low voltage	The soft starter triggers when the mains voltage drops below 120–600 V with a delay of 1–10 seconds.
Overvoltage	The soft starter triggers when mains voltage rises above 150–750 V, time delay 1– 10 seconds
Phase failure (reduced/increased frequency)	The soft starter is switched off when 1 or 2 phases are open and when the frequency is ±4 Hz from the rated frequency.
Phase alternation	The soft starter is switched off in case of incorrect phase sequence
Long operating time at low speed	The soft starter is switched off if it runs at low speed for more than 30 seconds.
Improper connection	Prevents starting if the motor is not correctly connected to the starter.
Short circuit in Thyristor	Prevents start-up when one or more thyristors are short-circuited.
Radiator over-temperature	The soft starter is switched off when the radiator temperature rises above 85 °C
External Failure	The soft starter is switched off by closing the external contact for 2 seconds
Thyristor protection	metal oxide varistors (MOV) and snubber circuits
Analogue input/output	input of motor overtemperature signal, output of analogue motor current signals

Notes

Notes

Notes

VEDA-IN DRIVES is a drive and automation technology

VEDA-IN DRIVES was founded by engineers and specialists with more than 15 years of experience in the drive technology market. The development of new products was based on the operating experience of various frequency converters, feedback from partners and customers and the technical capabilities of suppliers.

Currently, the product portfolio of VEDA-IN DRIVES includes VEDA-IN DRIVES RD low-voltage frequency converters, VEDA-IN DRIVES MVD medium-voltage converters, VEDA-IN DRIVES SFT and VEDA-IN DRIVES MV SFT soft starters, industrial logic controllers and HMI panels, servomotors, gearboxes and gearmotors, as well as all necessary options.

VEDA-IN DRIVES products are manufactured in fully automated factories under the strict supervision of VEDA-IN DRIVES specialists. We have ambitions to take our share in the market as a reliable supplier of power electronics and related products under our own brand.

VEDA-IN DRIVES product advantages

- Proprietary designs, performance flexibility.
- 100% focus on frequency converters and more than 15 years of experience.
- Shortest delivery times.
- Energy saving: up to 50 % on average in applications with pumps and fans.
- Warranty and post-warranty maintenance of equipment.

VEDA-IN DRIVES drive technology is widely used in areas such as water supply and wastewater disposal, heating, ventilation and air conditioning (HVAC), chemical and mining industries, lifts and cranes, shipbuilding, oil and gas production, power generation.

VEDA-IN DRIVES specialists regularly organize training seminars for engineering company specialists and service partners in the field of efficiency improvement and process automation. Special courses are used to train engineers for consumer companies.

VEDA-IN DRIVES D.O.O.
Belgrade / Novi Sad, Serbia
www.vedaindrives.com