### **Product datasheet** Characteristics

### ATS22D88Q

soft starter-ATS22-control 220V-power 230V(22kW)/400...440V(45kW)



#### Main

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Main			
Range of product	Altistart 22		
Product or component type	Soft starter		
Product destination	Asynchronous motors		
Product specific application	Severe and standard applications		
Component name	ATS22		
Network number of phases	3 phases		
[Us] rated supply voltage	230440 V (- 1510 %)		
Motor power kW	22 kW at 230 V		
	45 kW at 440 V 45 kW at 400 V		
Factory setting current	81 A		
Power dissipation in W	66 W for standard applications		
Utilisation category	AC-53A		
Type of start	Start with torque control (current limited to 3.5 In)		
IcL starter rating	88 A (connection in the motor supply line) for standard applications		
IP degree of protection			
IP degree of protection	IP20		
Complementary			
Assembly style	With heat sink		
Function available	Internal bypass		
Supply voltage limits	195484 V		
Supply frequency	5060 Hz (- 1010 %)		
Network frequency	4566 Hz		
Device connection	In the motor supply line To the motor delta terminals		
Control circuit voltage	220230 V -1510 % at 50/60 Hz		
Control circuit consumption	20 W		
Discrete output number	2		
Oct 20, 2016			

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Discrete output type	(R2)Relay outputs 230 V running, alarm, trip, stopped, not stopped, starting, ready, C/O (R1)Relay outputs 230 V running, alarm, trip, stopped, not stopped, starting, ready, C/O	
Minimum switching current	Relay outputs 100 mA at 12 V, DC	
Maximum switching current	Relay outputs 2 A at 30 V, DC inductive load, L/R = 7 ms Relay outputs 5 A at 30 V, DC resistive load, cos phi = 1 Relay outputs 2 A at 250 V, AC inductive load, cos phi = 0.4, L/R = 20 ms Relay outputs 5 A at 250 V, AC resistive load, cos phi = 1	
Discrete input number	3	
Discrete input type	(LI1, LI2, LI3) logic 5 mA 4.3 kOhm	
Discrete input voltage	24 V (<= 30 V)	
Discrete input logic	(LI1, LI2, LI3) positive logic state 0 < 5 V and < 2 mA state 1 > 11 V and > 5 mA	
Output current	0.41 Icl adjustable	
PTC probe input	750 Ohm	
Communication port protocol	Modbus	
Connector type	1 RJ45	
Communication data link	Serial	
Physical interface	RS485 multidrop	
Transmission rate	4800, 9600 or 19200 bps	
Installed device	31	
Protection type	Phase failure on line Thermal protection on starter Thermal protection on motor	
Marking	CE	
Type of cooling	Forced convection	
Operating position	Vertical +/- 10 degree	
Height	295 mm	
Width	145 mm	
Depth	207 mm	
Product weight	12 kg	

Electromagnetic compatibility	Voltage/Current impulse conforming to IEC 61000-4-5 level 3	
	Electrostatic discharge conforming to IEC 61000-4-2 level 3	
	Conducted and radiated emissions conforming to IEC 60947-4-2 level A	
	Immunity to radiated radio-electrical interference conforming to IEC 61000-4-3 level 3	
	Damped oscillating waves conforming to IEC 61000-4-12 level 3	
	Immunity to electrical transients conforming to IEC 61000-4-4 level 4	
Standards	EN/IEC 60947-4-2	
Product certifications	UL	
	GOST	
	C-Tick	
	CSA	
	CCC	
Vibration resistance	1 gn (f = 13200 Hz) conforming to EN/IEC 60068-2-6	
	1.5 mm (f = 213 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27	
Noise level	45 dB	
Pollution degree	Level 2 conforming to IEC 60664-1	
Relative humidity	<= 95 % without condensation or dripping water conforming to EN/IEC 60068-2-3	
Ambient air temperature for operation	> 40< 60 °C with current derating 2.2 % per °C	
	-1040 °C without derating	
Ambient air temperature for storage	-2570 °C	
Operating altitude	> 1000< 2000 m with current derating of 2.2 % per additional 100 m	
	<= 1000 m without derating	

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0938 - Schneider Electric declaration of conformity



	Schneider Electric declaration of conformity	
REACh	Reference contains SVHC above the threshold - Go to CaP for more details	
	Go to CaP for more details	
Product environmental profile	Available	
	Product environmental	
Product end of life instructions Available		
	🛃 End of life manual	

### Contractual warranty

Warranty period

18 months





#### Presentation

The Altistart 22 soft start - soft stop unit supports the controlled starting and stopping, via voltage and torque, of three-phase squirrel cage asynchronous motors for power ratings between 4 and 400 kW.

It comes ready to use for standard applications with class 10 motor protection.



### Displaying the firmware version



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### Product datasheet Dimensions Drawings

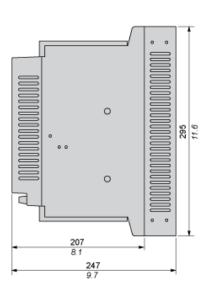
## ATS22D88Q

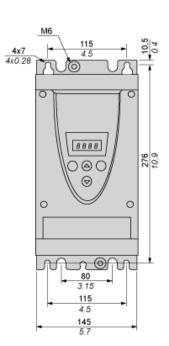
### **Dimensions and Weights**

#### Dimensions

Frame Size B







### Weights

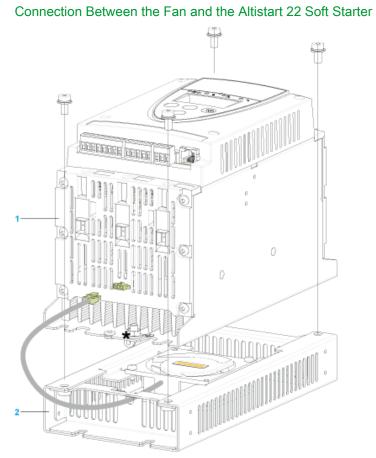
Starter	kg	lb
Without fan	8.5	18.9
With fan (1)	9.9	22
Gross weight	12	26.7



Product datasheet Mounting and Clearance

## ATS22D88Q

### Mounting



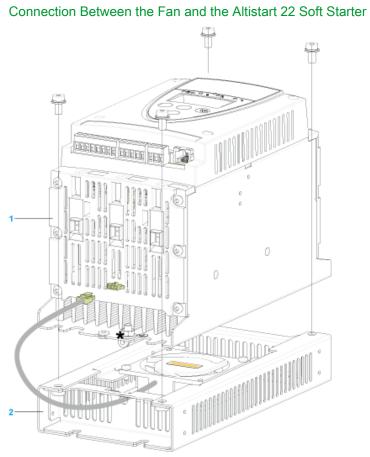
1 Altistart 22 Soft Starter

2 Fan

Product datasheet Mounting and Clearance

## ATS22D88Q

### Mounting



1 Altistart 22 Soft Starter

2 Fan



ATS22D88Q

#### Connection in the motor delta winding in series with each winding

#### Wiring

ATS22 soft starters connected to motors with the delta connections can be inserted in series in the motor windings.

The following wiring requieres particular attention. It is documented in the Altistart 22 Soft start - soft stop unit user manual. Please contact Schneider Electric commercial organisation for further informations.

#### Example

### **ATS22D88Q**

Connection in the motor delta winding in series with each winding

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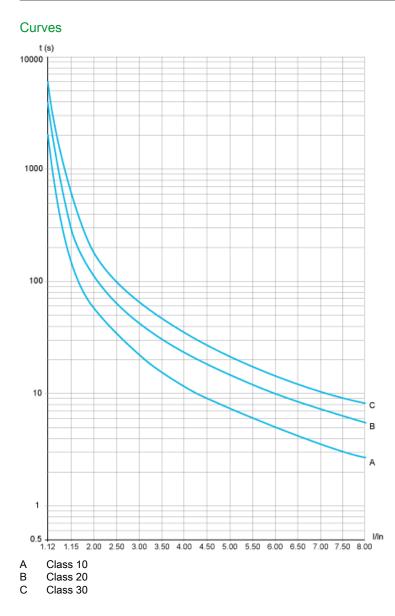
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#### Example

#### Motor Thermal Protection - Warm Curves



### Trip time for a Standard Application (Class 10)

3.5 ln	
16 s	

#### Trip time for a Severe Application (Class 20)

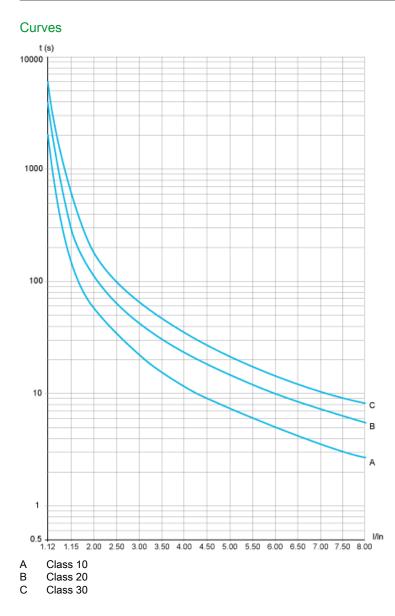
3.5 ln	
32 s	

### Trip time for a Severe Application (Class 30)

3.5 ln		
48 s		



#### Motor Thermal Protection - Warm Curves



### Trip time for a Standard Application (Class 10)

3.5 ln	
16 s	

#### Trip time for a Severe Application (Class 20)

3.5 ln	
32 s	

### Trip time for a Severe Application (Class 30)

3.5 ln		
48 s		

