

# Produktdatablad

Spesifikasjoner



## Mykstarter 88 A 230 - 440 V

EI-nummer:

4176669

ATS22D88Q

EAN: 3606480167232

## Produktdata

Produktspekter	Altistart 22
Produkt eller type komponent	Mykstarter
Anvendes til	Asynkroner motorer
Produktspesifikk applikasjon	Pumper og vifter
Type komponent	ATS22
Antall faser i nettverket	3 faser
[Us] merkespenning	230...440 V - 15...10 %
Motoreffekt kW	22 kW 230 V 45 kW 400 V 45 kW 440 V
Fabrikkinnstilt strøm	81 A
effekttap i W	66 W for standard applications
Driftskategori	AC-53A
type of start	Start med momentkontroll (strøm begrenset til 3,5 In)
IcL starter, nominell effekt	88 A for kopling i motorforsyningsledning for standard applications
IP-grad	IP20

## Teknisk data

monteringsmåte	Med kjølelegeme
Mulige funksjoner	Intern forbikopler
Spenningsgrenser	195...484 V
nettfrekvens	50...60 Hz - 10...10 %
Nettverksfrekvens	45...66 Hz
Tilkopling av utstyr	Til motordeltaterminaler I motorforsyningsledningen
Styrespenning	230 V - 15...10 % 50/60 Hz
kontrollkretsforbruk	20 W
Antall digitale utganger	2
Digitale utganger	Reléutganger R1 230 V kjører, alarm, utløs, stoppet, ikke stoppet, starter, klar C/O Reléutganger R2 230 V kjører, alarm, utløs, stoppet, ikke stoppet, starter, klar C/O
minimum brytestrøm	100 mA på 12 V DC ( reléutganger)
Maximum svitsjestrøm	5 A 250 V AC Ohmsk 1 reléutganger 5 A 30 V DC Ohmsk 1 reléutganger 2 A 250 V AC Induktiv 0,4 20 ms reléutganger 2 A 30 V DC Induktiv 7 ms reléutganger

Antall digitaleinnganger	3
digital inngangstype	( LI1, LI2, LI3) logikk, 5 mA 4.3 kOhm
digital inngangsspenning	24 V <= 30 V
Diskrét inngangs logikk	Positiv logikk LI1, LI2, LI3 ved Tilstand 0: < 5 V og <= 2 mA ved Tilstand 1: > 11 V, >= 5 mA
utgangsstrøm	0.4...1 lcl Justrbar
PTC-sensorinngang	750 Ohm
Kommunikasjonsport protokoll	Modbus
Tilkoblingstype	1 RJ45
kommunikasjonsdatalink	Serie
Fysisk grensesnitt	RS485 flerpunkt
Overføringshastighet	4800, 9600 eller 19200 bps
Installert utstyr	31
Beskyttelsestype	Fase feil: ledning Thermal protection: Motor Thermal protection: Starter
Merking	CE
Kjølemetode	Tvangsstyrt konveksjon
Driftsposisjon	Vertikal +/- 10 grader
Høyde	295 mm
Bredde	145 mm
Dybde	207 mm
Vekt	12 kg
Motor power range AC-3	15...25 kW på 200...240 V 3 faser 30...50 kW på 380...440 V 3 faser
motor starter typen	Myk starter

## Miljø

elektromagnetisk kompatibilitet	Strålt og ledet elektromagnetisme nivå A conforming to IEC 60947-4-2 Dempede oscillerende bølger nivå 3 conforming to IEC 61000-4-12 Elektrostatisk utlading nivå 3 conforming to IEC 61000-4-2 Immunitet til elektriske overgangsspenninger nivå 4 conforming to IEC 61000-4-4 Immunitet til rettet radioelektrisk interferens nivå 3 conforming to IEC 61000-4-3 Spenning/strømpuls nivå 3 conforming to IEC 61000-4-5
Standarder	IEC 60947-4-2
Produktsertifikater	CCC CSA UL GOST C-Tick
Vibrasjonsmotstand	1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6 1,5 mm (f= 2...13 Hz) conforming to IEC 60068-2-6
Støtmotstand	15 gn for 11 ms i samsvar med IEC 60068-2-27
støynivå	45 dB
Forurensninggrad	Nivå 2 i samsvar med IEC 60664-1
relativ fuktighet	0...95 % uten kondensering eller dryppvann i samsvar med IEC 60068-2-3
omgivelsestemperatur for drift	-10...40 °C (uten lastreduksjon) 40...60 °C (med strømlastreduksjon på 2,2 % per °C)

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Omgivelsestemperatur for lagring -25...70 °C

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driftshøyde <= 1000 m uten lastreduksjon  
> 1000...< 2000 m med strømlastreduksjon på 2,2 % per ytterligere 100 m

## Forpakkingsinformasjon

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Enhetsstype pakke 1 PCE

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Antall enheter i pakke 1 1

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Pakke 1 Høyde 23,000 cm

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Pakke 1 Bredde 30,800 cm

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Pakke 1 Vekt 35,800 cm

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Package 1 Weight 8,170 kg

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Enhetsstype pakke 2 P06

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Antall enheter i pakke 2 6

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Pakke 2 Høyde 75,000 cm

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Pakke 2 Bredde 60,000 cm

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Pakke 2 Lengde 80,000 cm

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Pakke 2 Vekt 63,184 kg

## Logistikkinformasjon

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Opprinnelsesland ID

## Garantiperiode

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Garanti 18 months

## Environmental Data

Schneider Electric tar sikte på å oppnå Net Zero-status innen 2050 gjennom partnerskap med leverandørkjeden, materialer med lavere slagkraft og sirkularitet via vår pågående "Use Better, Use Longer, Use Again"-kampanje for å forlenge produktlevetiden og resirkulerbarheten.

[Environmental Data forklart >](#)

[Hvordan vi vurderer produktets bærekraft >](#)

### Use Better

 Materialer og emballasje	
Emballasje med resirkulert papp	Nei
Emballasje uten plast	Nei
<a href="#">EU RoHS-direktiv</a>	Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet)
SCIP-nummer	7f28cbce-306d-4c94-ba04-b506c5522d63
REACH-regelverk	<a href="#">REACH-erklæring</a>

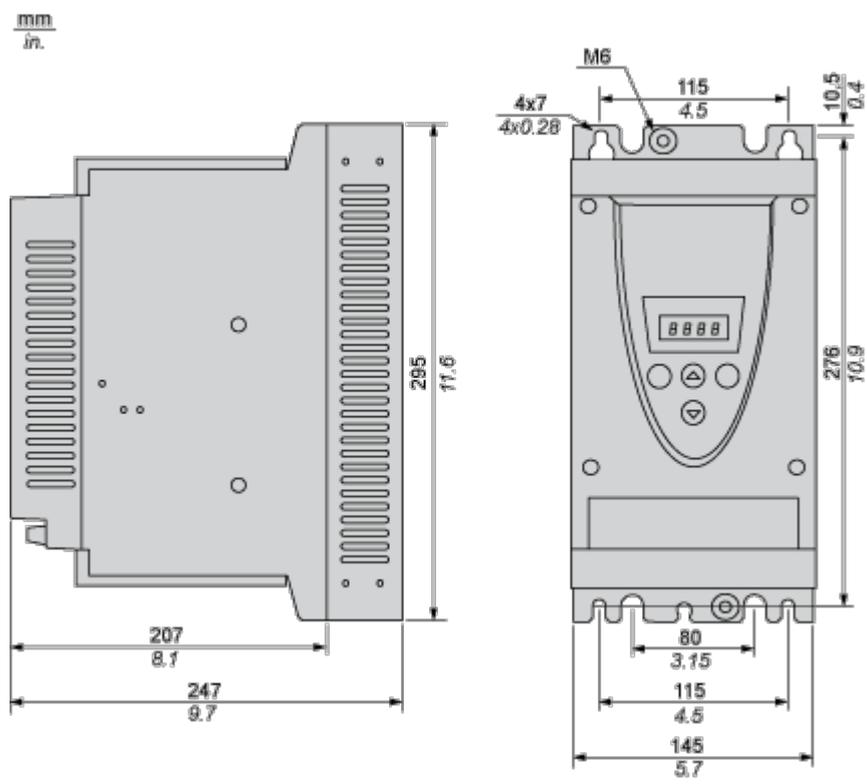
### Use Again

 Ompakking og reproduksjon	
Tilbaketakning	No
WEEE Label	 Innen EU må produktet avhendes i henhold til bestemte regler for avfallshåndtering og aldri kastes som husholdningsavfall.

Dimensions Drawings

Frame Size B

Dimensions



Mounting and Clearance

Precautions

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Standards

The Altistart 22 soft starter is compliant with pollution Degree 2 as defined in NEMA ICS1-1 or IEC 60664-1. For environment pollution degree 3, install the Altistart 22 soft starter inside a cabinet type 12 or IP54.



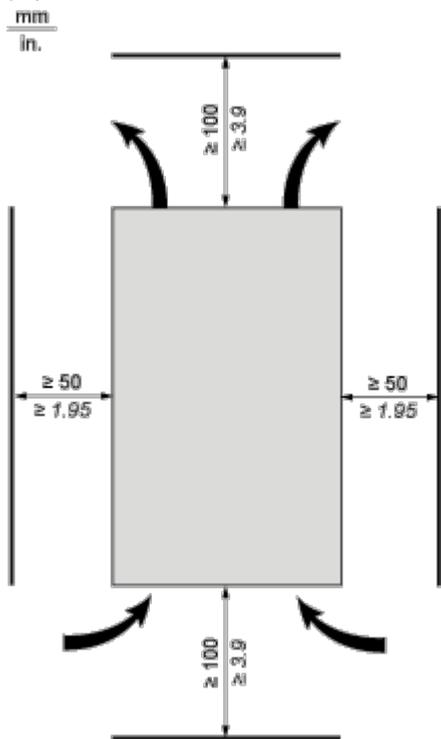
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

ATS22 soft starters are open devices and must be mounted in a suitable enclosure.

Failure to follow these instructions will result in death or serious injury.

Air Circulation

Leave sufficient free space to help the air required for cooling purposes to circulate from the bottom to the top of the unit.



Overheating

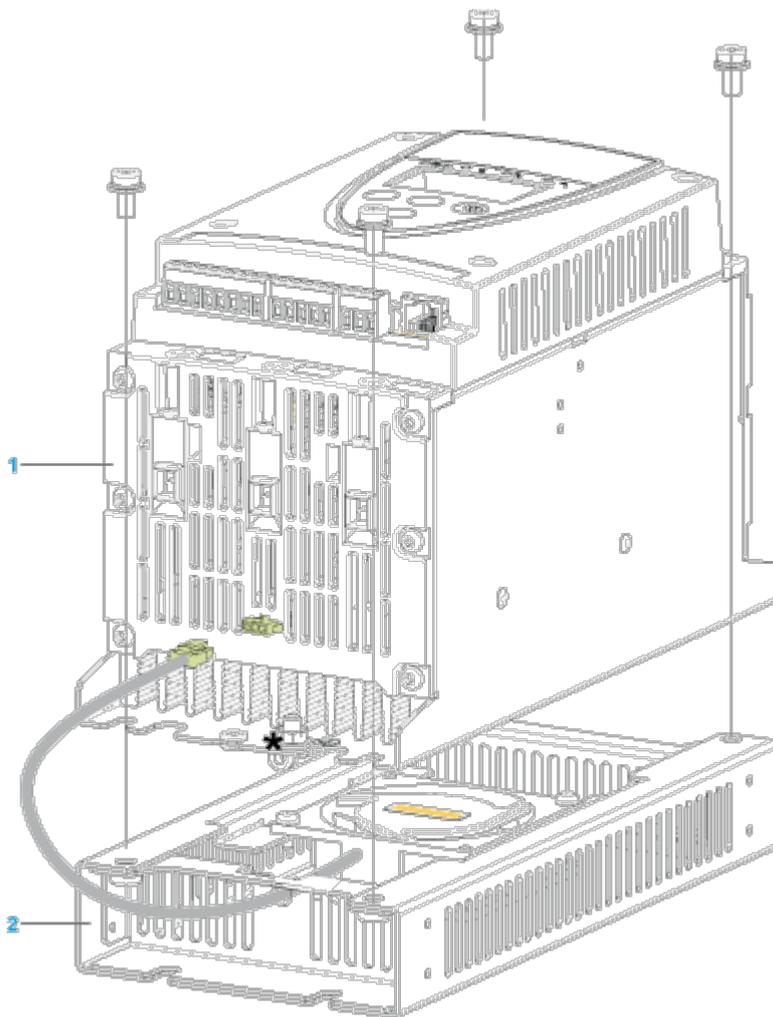
To avoid the soft starter to overheat, respect the following recommendations:

- Mount the Altistart 22 Soft Starter within  $\pm 10^\circ$  of vertical.
- Do not locate the Altistart 22 Soft Starter near heat radiating elements.
- Electrical current through the Altistart 22 Soft Starter will result in heat losses that must be dissipated into the ambient air immediately surrounding the soft starter. To help prevent a thermal fault, provide sufficient enclosure cooling and/or ventilation to limit the ambient temperature around the soft starter.
- If several soft starters are installed in a control panel, arrange them in a row. Do not stack soft starters. Heat generated from the bottom soft starter can adversely affect the ambient temperature around the top soft starter.

Mounting

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Connection Between the Fan and the Altistart 22 Soft Starter



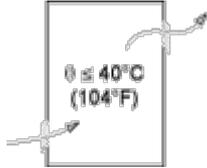
- 1 Altistart 22 Soft Starter
- 2 Fan

## Wall mounted or Floor-standing Enclosure with IP 23 Degree of protection

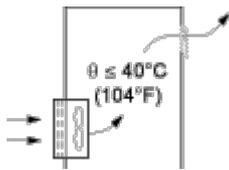
### Introduction

To help proper air circulation in the soft starter, grilles and forced ventilation can be installed.

### Ventilation Grilles



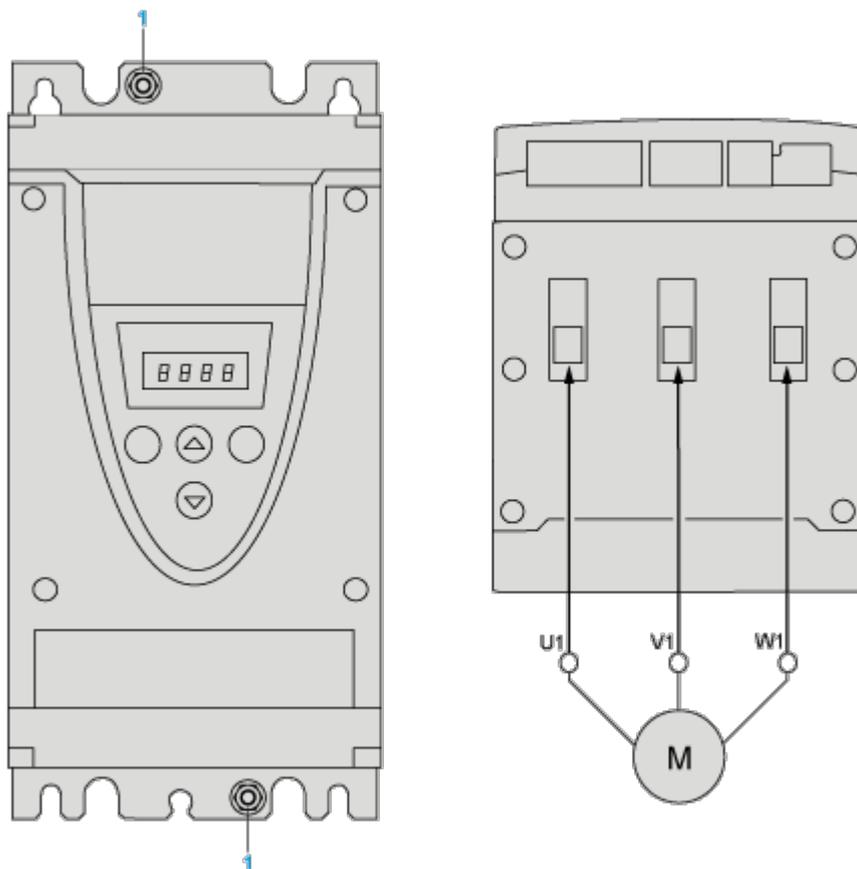
### Forced Ventilation Unit



Connections and Schema

Power Terminal

Cage Style



1 Ground connection

Power connections, minimum and maximum wiring capabilities, tightening torque

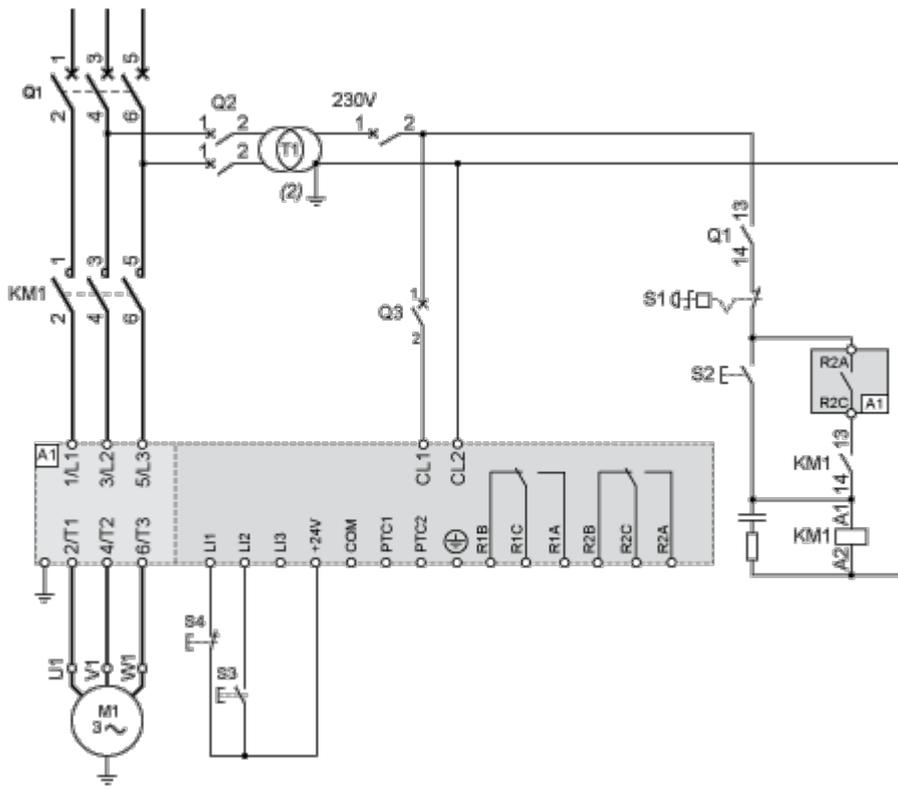
			IEC cable	UL cable	
Power supply and output to motor	Size/gauge	min	4 mm (a)	10 AWG (a)	
		max	50 mm	1/0 AWG	
	Tightening torque	min	8 N.m	70 lb.in	
		max	8 N.m	70 lb.in	
	Strip length			15 mm	0.6 in.

Power connections, minimum required wiring section

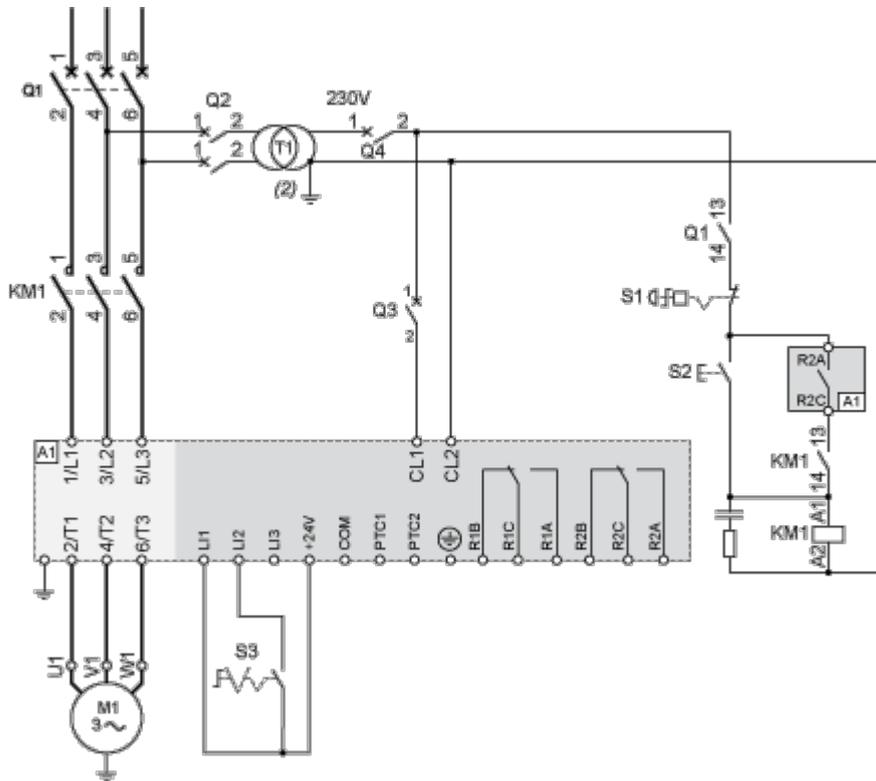
IEC cable mm <sup>2</sup> (Cu 70°C/158°F) (1)	UL cable AWG (Cu 75°C/167°F) (1)
35	2

230 Vac control, logic Inputs (LI) 24 Vdc, 3-wire control

With Line Contactor, Freewheel or Controlled Stop



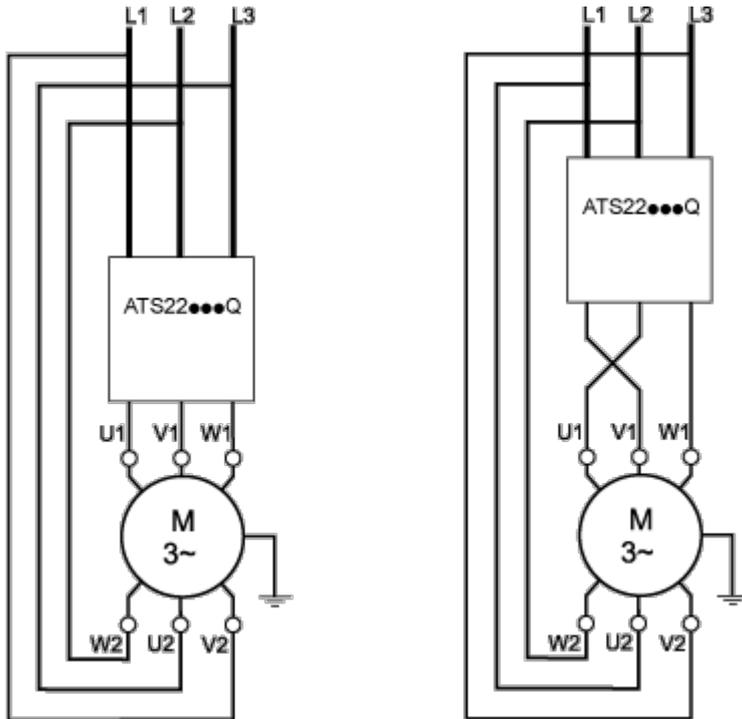
230 Vac control, logic Inputs (LI) 24 Vdc, 2-wire control, freewheel stop



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 requires 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.



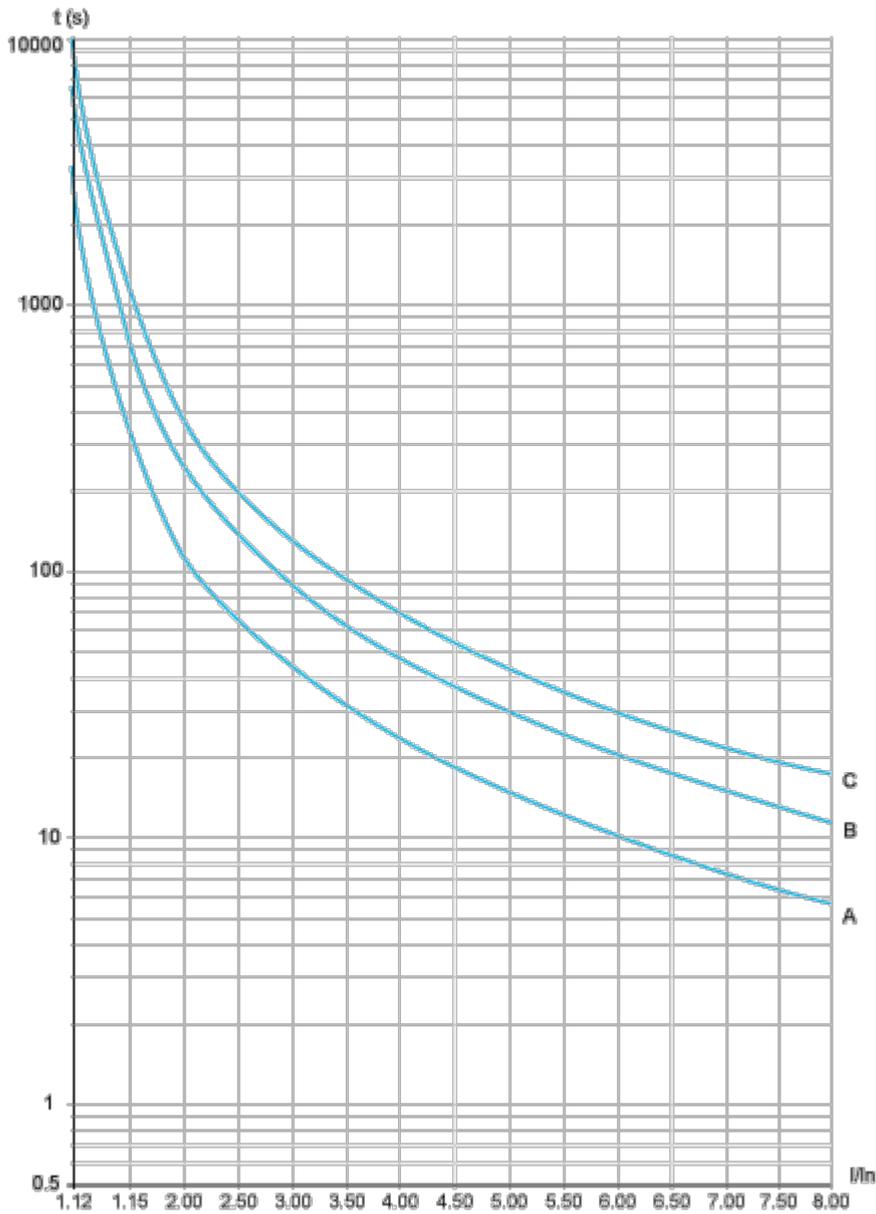
**Example**

A 400 V - 110 kW motor with a line current of 195 A (nominal current for the delta connection). The current in each winding is equal to  $195/1.5$  or 130 A. The rating is determined by selecting the soft starter with a permanent nominal current (ICL) just above this current.

Performance Curves

Motor Thermal Protection - Cold Curves

Curves



- A Class 10
- B Class 20
- C Class 30

Trip time for a Standard Application (Class 10)

3.5 $I_n$
32 s

Trip time for a Severe Application (Class 20)

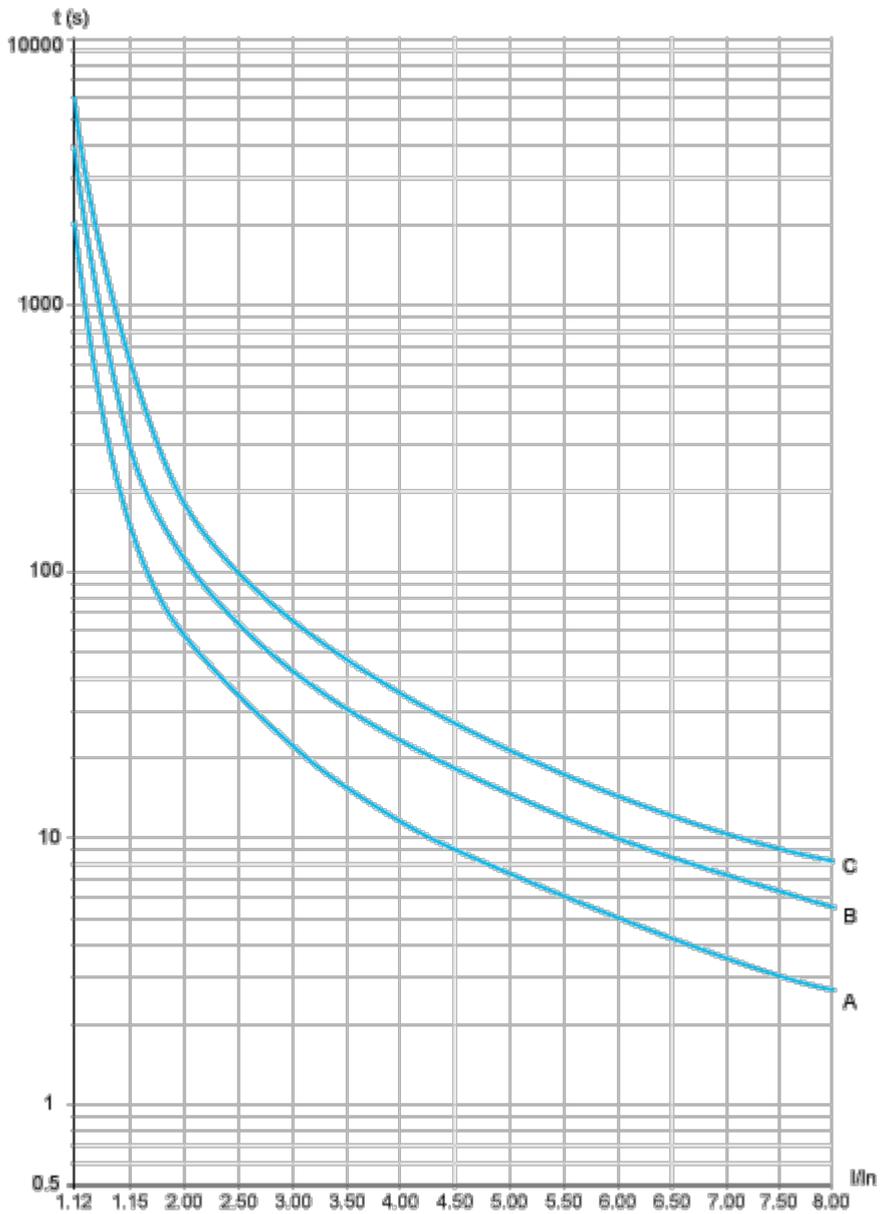
3.5 In
63 s

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

3.5 In
95 s

Motor Thermal Protection - Warm Curves

Curves



- A Class 10
- B Class 20
- C Class 30

Trip time for a Standard Application (Class 10)

- 3.5 In
- 16 s

Trip time for a Severe Application (Class 20)

- 3.5 In

32 s

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

3.5 In

48 s

Image of product / Alternate images

Alternative

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